# Programme at a Glance

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<td>18.00</td>
<td>17.45: Opening Ceremony</td>
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**Note:**
- Changes in the Congress programme may have occurred after printing. Please check the website for updates: [www.33igc.org](http://www.33igc.org)
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The 33rd International Geological Congress is honoured to have His Majesty the King of Norway, Harald V, as its patron. The Congress is held in Oslo by invitation from the Prime Minister of Norway and the Mayor of Oslo. The 33rd IGC is organised jointly by the Nordic countries, Denmark, Finland, Iceland, Norway and Sweden.
Message from the President

Welcome to Oslo and Lillestrøm

Dear fellow geoscientists,

The IGC has had a long and outstanding history since its first Congress in Paris in 1878. With strong emphasis on cross-disciplinary symposia in earth sciences and first-class excursions, the IGC has become the Olympic Games for geoscientists. The Nordic countries are proud to arrange the 33rd International Geological Congress in Oslo, Norway with the goal of developing the IGC tradition and giving the Congress a local flavour.

2008 is the International Year of Planet Earth (IYPE), and the International Polar Year (IPY). Both will be addressed with special symposia and in the general programme. We have accepted 6,500 abstracts covering most fields in geosciences, and the Congress in Oslo presents a unique opportunity to discuss high level science in a broad perspective.

We are delighted that StatoilHydro has seen the potential in IGC and is our main sponsor. The interest for petroleum exploration and exploitation in Norway is significant and we are very pleased with so many contributions to the scientific programme on petroleum geoscience. The Nordic Countries are also important producers of metals and minerals and more than 20 symposia in this field demonstrate the interest. The development of IGC as a major meeting place for petroleum and ore geology is important for the future of IGC.

How can we improve communication between earth science and society? We have developed a programme of “Themes of the Day” with contributions from scientists, politicians and leaders from industry and government. The themes include the origins of life and biodiversity, climate change, geohazards, water and health, ores and minerals, energy and “earth and beyond”. These seven fields of knowledge are all vital for the future of our planet.

It has been our consistent aim to limit the environmental impact of the Congress as much as possible. This has resulted, for example, in the choice of a simple Congress bag, an abstract CD-ROM rather than book, and rail transport for participants between Oslo and the Congress venue.

Since the first IGC in 1878, we have experienced a period of increased specialisation. Now is the time for a more holistic view of earth sciences. The 33rd IGC presents a unique opportunity to learn and debate!

I wish you an enjoyable stay in Oslo and Lillestrøm.

Arne Bjørlykke
President, 33rd IGC
International Geological Congress Committee, IGCC

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Secretary General, IUGS; Attilio
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of the 32nd IGC; Antonio Brambati,
Treasurer of IUGS; Arne Bjørlykke,
President of the 33rd IGC; Anders
Solheim, Secretary General of the
33rd IGC.

32nd Session of the Congress
At the 32nd session of IGC in
Florence, Italy, it was decided to
merge the councils of IUGS and
IGC. Consequently, a revision to
statutes was required and approved
by Council. These were published
in the 32nd IGC General
Proceedings that are available on
the 33rd IGC and IUGS websites.
IGCC replaces the former steering
committee of IGC with some small
modifications. IGCC is now a joint
IUGS-IGC body. The Council
decided to streamline the
statutes and bye-laws of the two
organisations.

Mid-term IGCC Meeting
The IGCC met in Oslo, Norway,
22-23 April, 2006, in order to advise
the present organising committee on
the general ongoing organisation of
the 33rd IGC in Oslo, 2008. After a
comprehensive presentation by the
Organising Committee and
subsequent discussion and
suggestions, the IGCC approved the
Organising Committee's activities
as fully adequate. In addition, the
following topics were discussed:

1. The organiser of the 32nd IGC
presented a brief summary of the
congress. The General Proceedings,
copies of which have been sent to
all committee members, provide
a very thorough description of the
Congress in Florence.

2. A regional rotating procedure
for future IGCs. An earlier proposal
for a procedure that would ensure
a good geographical spread of
future congresses is published in
the IGC32 General Proceedings (p. 41).
According to this scheme, the world
would be divided into 5 broad
regions, each comprising a different
number of countries and varying
size of geological communities.
This rotating procedure for IGC
venue selection should ideally be
implemented in the selection of the
2016 IGC venue.

3. The statutes adopted at the
Florence Council Meeting led to
the merger of the IGC and IUGS
councils. In the statutes ratified at
the meeting, it has been defined
that the “International Geological
Congress is the scientific forum of
the Union”. It was also decreed
that: “In accordance with articles
(j), (k), (l), and (m) the IGC is
managed by the Organising
Committee in close co-operation
with the IGC Committee concerning
the general rules.” During the
meeting at the 32nd IGC, the
Council approved unanimously
the motion that the statutes be revised
and streamlined as an urgent
matter, and a joint IUGS/IGC Task
Group has been working with the
statutes and bye-laws. The present
statutes are printed on p. 7-8 in
the General Proceedings of the
32nd IGC.

Appointment of Official
Delegates to the Congress
National Committees and/or
appropriate authorities of
participating countries will appoint
delegates in accordance with article
5.7 of the Statutes of the Congress,
to represent them at the Session of
the joint IUGS and IGC Council.
The delegates will sit for the
duration of the Congress.

See www.33igc.org for the
current statutes, as agreed upon
at the 32nd IGC in Florence,
2004.
Congress Foundation, Organising Committee, Advisory Board, Science Committee, International Panel, Arctic Consortium, Sub-Committees and National Working Groups

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Mr. Jan Stenlok, Norwegian Petroleum Directorate, Norway
Dr. Pär Weihed, University of Technology, Sweden

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Prof. Matti Saarnisto, Geological Survey of Finland, matti.saarnisto@gtk.fi
Prof. Reijo Salminen, Geological Survey of Finland, reijo.salminen@gtk.fi
We are hands-on with tomorrow’s energy challenges

40 years of pioneering operations on the Norwegian continental shelf have made us world leaders in the field of maritime oil and gas activities. We apply our skills and experiences from these demanding conditions to the rest of the world. We consistently work to find sustainable solutions for the energy requirements of the future. Our pioneering projects for carbon capture and storage are vital in order to reduce the climate impact.

www.statoilhydro.com
Convention Centre
Map of GeoExpo 2008

Poster Area
Exhibitors listed alphabetically
The list comprises all exhibitors registered by 14th July 2008. Details of exhibitors registered after this date will be available on the website.

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<td>A/S Norske Shell</td>
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<td>Activation Laboratories Ltd</td>
<td>C01-23</td>
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<td>American Association of Petroleum Geologists, AAPG</td>
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<td>American Geological Institute – GeoScienceWorld</td>
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<td>Association of Latin-American Geology and Mining Surveys – ASGMi</td>
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<td>Australia 2012 – 34th International Geological Congress</td>
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<td>BETA Analytic Inc. – Radiocarbon Dating Services</td>
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<td>British Geological Survey</td>
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<td>Bundesanstalt für Geowissenschaften und Rohstoffe, BGR</td>
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<td>C.S.G. s.r.l. Centro Servizi di Geogiogenetria</td>
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<td>Commission for the Geological Map of the World, CGMW</td>
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<td>Committee of Geology and Subsoil Use of Kazakhstan</td>
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<td>Copernicus.org Meetings &amp; Open Access Publications</td>
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<td>Council for Geoscience</td>
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<td>EuroGeoSurveys, the Association of the Geological Surveys of Europe</td>
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<td>Faroese Earth and Energy Directorate (Jarlaféingi)</td>
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The exhilarating feeling when a major mineralization has been discovered is difficult to explain. Some compare it to bungy-jumping – or skiing downhill a steep slope in powder snow. Geologists working for Boliden have been richly rewarded when it comes to adrenalin kicks for the past 80 years. Over the years, they have discovered hundreds of mineralizations with rich contents of zinc, copper, lead, silver and gold.

Boliden is, in fact, one of the leading exploration companies in Europe. But finding it is only half the fun. Seeing the transformation from shiny dots on a piece of rock to vital parts of the construction of a modern building is another. And knowing that we make modern life work. Read more on www.boliden.com
**GENERAL INFORMATION**

**Registration and information desk**

The registration and information desk is located in the foyer of Norway Convention Centre. All participants must collect their name badge and other conference materials here, before entering the conference and exhibition area.

**Badges**

Your personal badge is your entrance ticket to all sessions. Please always wear your badge.

Name badge wallets are colour-coded in the following way:

- **Full and Half Congress Participants** - no colour
- **Organising Committee** - red
- **Conveners and Invited Speakers** - green
- **Staff** - blue

Single-day participants receive clear name badge wallets and dark-blue neck bands.

Members of the public attending only “Themes of the Day” sessions will not receive a name badge, but will receive tickets for their chosen sessions.

**Congress venue**

Norway Convention Centre (also called “Norway Trade Fairs”) in Lillestrøm is our Congress venue. This modern and flexible congress centre is located 20 km from Oslo, midway between Oslo International Airport Gardermoen and the city centre. For detailed information: www.messe.no/en.

Sessions will also be held at Thon Hotel Arena which adjoins the Convention Centre. See http://www.thonhotels.com/arena for detailed information.

Rooms 31 and 32 are located in premises across the road from Thon Hotel Arena. Please see the map of the venue on pages 10-11 and look out for the signs.

**Transport to the Congress venue**

Participasts registered for full or half Congress can use their participant badge to travel by train between the venue at Lillestrøm and Oslo City Centre (Oslo S and Nationaltheatret stations), as well as Oslo International Airport Gardermoen, at no extra cost.

*Please note that this does not include use of the Airport Express Train. Participants paying the one-day fee are not entitled to free train travel.*

The train from Oslo to Lillestrøm takes 11-12 minutes. The convention facilities are within walking distance from the train station and there are train departures with short intervals in each direction, all day.

You must wear your name badge and red neck band at all times when travelling on the train.

For information about trains to Lillestrøm and Norway Convention Centre, please see the table below and note that local stopping trains have a considerably longer journey time (25-30 minutes). All trains going to Lillestrøm are marked 33 IC.

For more information please see www.nsb.no.

**Transport within Oslo**

For onward transport from Oslo S (the Central Station) and Nationaltheatret and within the Oslo city boundaries by underground, tram or bus, a number of alternatives are available:

- **Pre-paid single tickets** NOK 22
- **Single tickets bought onboard trams and buses** NOK 30
- **‘Flexicard’ for 8 single trips** NOK 160
- **24-hour pass - unlimited number of trips** NOK 60
- **Seven-day pass - unlimited number of trips** NOK 210

All of the above may be bought from ticket machines at tram stops and underground stations as well as from Narvesen, 7-Eleven and Mix shops which can be found all over the city. Single tickets and ‘flexicards’ may also be bought from the driver onboard trams and buses.

Tickets must be stamped in the yellow or orange boxes to be found onboard trams and buses and at the entrance to underground stations.

For more information, please see www.trafikanten.no.

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**Med NSB til Norges Varemesse**

By train to/from Norway Trade Fairs

Minutter over hel time på dagtid / Minutes past each hour during daytime.

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D Tog direkte / direct train - Romeriksparten
L Stopper lokalt / Local stopping train
* Redusert tilbud i helgene / Less frequent at weekends

Se nsb.no eller ring 815 00 888
See nsb.no or call 815 00 888

Oslo S and Nationaltheateret are the stations in central Oslo to which participants may travel using their name badge.
Transport to the airport

Oslo International Airport
Gardermoen is Oslo’s main airport.

The Airport Express train takes 12 minutes from Lillestrøm and 20 minutes from Oslo Central Station. Trains depart every 10 minutes on weekdays. Please see the timetable at www.flytoget.no/eng. The price is NOK 160 from Oslo Central Station or NOK 120 from Lillestrøm to the airport.

Please note that you may not use the Airport Express Train to travel between Oslo and Lillestrøm and that this train service is not free for Congress participants.

You may also use one of the many direct buses. The bus from Oslo Bus Terminal, which is located next to Oslo Central Station, departs every 20 minutes for the 45 minute journey to the airport. Please see the timetable at www.flybussen.no/oslo. The current price is NOK 130.

Details of other bus services can be found at www.flybussenpressen.no.

A taxi from central Oslo would cost at least NOK 600.

Two smaller airports are located further away from Oslo but with good public transport links. For Sandefjord Airport Torp, please see www.torp.no and for Moss Airport Rygge www.en.ryg.no.

Parking at the Congress venue

Parking is available at the Congress venue and charges are as follows:

- 1 hour: NOK 25
- 2 hours: NOK 40
- Subsequent hours: NOK 10 per hour
- All day: NOK 100

Please note that the penalty for parking violations is minimum NOK 500.

On-site registration

Cash and credit card payment on-site in Euros or Norwegian Kroner is possible at the registration desk.

Registration fees

Please see the table below. A contribution of €15 to IUGS is included in the fees. Pensioners (from age 65) pay the student registration fee. Students must submit documentary evidence of being enrolled at an educational institution in the year 2008. Youth Congress participants must be accompanied by Congress members and are eligible if between 7 and 15 years of age. All categories of participants may take part in field trips or other arrangements when duly registered.

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* Half-Congress dates are: 1st half: 6-10 August; 2nd half: 10-14 August

** Single day registration does not include lunch and rail travel. Single day registration is permitted for more than one day on the condition that these are consecutive days.

Congress fees include:

- All participants - full/ half fee:
  - Access to Scientific sessions and exhibitions, Congress documents and publications.
  - Lunches in the Congress Centre, coffee/tea breaks.
  - Rail travel to and from the Congress Centre
  - Opening and Closing ceremonies, Icebreaker party

Accompanying and Youth Congress participants:

- As above, with the exception of access to the Scientific Sessions, the Congress documents and publications.

Accompanying persons’ programme

One “Highlights of Oslo” tour is included in the registration fee for each paying accompanying person. Participants in the Youth Congress have their own programme and a sightseeing tour is therefore not included in their fee.

Youth Congress

The Youth Congress is for youngsters (from 7 to 15 years old) accompanying their parents to the 33rd IGC and is run in cooperation with the Natural History Museum at the University of Oslo. This initiative is designed to offer young people an opportunity to become acquainted with the Earth’s history and past life, as well as to extend their knowledge of history and natural sciences.

Daily programme:

Thursday 7 August

Day one will take place at the Natural History Museum where participants will experience the famous exhibition “Messel on tour”. They will visit Europe 47 million years ago when bats, crocodiles, turtles and prehistoric horses lived in the rain forests that covered the continent at that time. The participants will also learn the history behind the newly discovered Plesiosaurus and Ichthyosaurus from Spitsbergen, and meet the huge dinosaur ‘Stan’.

Friday 8 August
Boat trip to the idyllic island Hovedøya with explorations of the ruins of a medieval monastery and hiking in secret tunnels. There is also the opportunity to go boating and swimming, and maybe find some fossils on the shore.

Saturday 9 August

Hiking in the impressive Kolsås geologic profile and the opportunity to learn the exciting history of the Oslo Rift and the incredible volcanic activity that once took place here. Lava flows and colourful conglomerates are excellently exposed along the path. In addition to the geology, Kolsås also offers a magnificent view of the Oslo area and a very pleasant day’s walking.

Monday 11 August

Go treasure hunting to Røverkollen – “the Robber Hill”! Sparkling garnets and rock crystals as well as copper minerals can still be found in the old mines. There may also be some bats living there. We will take hammers, chisels and a good packed lunch. On Røverkollen participants will also see burial mounds from the Bronze Age, and most spectacular views of Oslo, the Oslo fjord and the surrounding forest.

Tuesday 12 August

Boat trip to Bygdøy to visit the Viking ships and the Kon-Tiki museum. The Viking Ship Museum displays the two unique Oseberg and Gokstad long boats, representing the largest finds ever made in Norway. From all the excavated household items we can learn the way people lived in the 9th century. Next stop is at Thor Heyerdahl’s Kon-Tiki Museum, with its famous Kon-Tiki raft on display along with the papyrus boat RA-II and other items pertaining to Thor Heyerdahl’s many exciting expeditions.

Wednesday August 13

Bus tour to the old Silver mines at Kongsvinger, where participants will board a ‘mining train’ that will take us deep into the mountain. Inside the mountain, there is an exciting treasure hunt for children, and outside the entrance to the Silver mines, there are activities such as “find your own silver” and “find your own minerals”. Participants can also experience the fire setting method. Children who have participated in the treasure hunt can make their own coin in pure silver.

The cost of the Youth Congress package is inclusive of registration fees, guided tours, transportation, and lunches, and also participation in the Social programme (Opening and Closing ceremonies and Icebreaker welcome party).

The scheduled activities are liable to change or cancellation depending on the number of registrations.

Social events

Tickets for payable evening events may be purchased at the Tours and Social Events desk as long as places remain available.

Opening ceremony

Wednesday 6 August, 17.45

Price: included in the Congress fee

All participants must be seated at 17.45 for the Opening ceremony due to the arrival of His Majesty King Harald V.

The Opening ceremony of the 33rd IGC will take place in the plenary hall at the Norway Convention Centre and is open to all participants, registered accompanying persons and exhibitors at the Congress. This will be the grand opening of the Congress, with welcome speeches, presentations of all the Nordic countries, their characteristics and similarities, and spectacular stage events.

Icebreaker welcome party

sponsored by Det norske, PGS and Store Norske Spitsbergen Kulkompani A/S (SNSK)

Wednesday 6 August, 19.30

Price: included in the Congress fee

The Organisers invite all participants, registered accompanying persons and exhibitors to the Icebreaker welcome party after the Opening ceremony. This is the chance to enjoy a drink and some light food and reunite with colleagues from all over the world.

Night at the Opera: “Porgy & Bess”

sponsored by A/S Norske Shell

Friday 8 August, 19.00

Price: €35

We are proud to be able to offer an exclusive night for IGC participants at the brand new Opera House in Oslo. This opening night performance of “Porgy & Bess” is a guest performance by the South African Cape Town Opera.

The closest underground/train station to the Opera House is Jernbanetorget/Oslo Central Station.

Congress barbeque party

sponsored by The City of Oslo and A/S Norske Shell

Monday 11 August, 19.30

Price: €25

The Organisers invite all participants, registered accompanying persons and exhibitors to a barbeque party in the lush and beautiful Botanical Garden in the centre of Oslo. The Botanical Garden houses the Natural History Museum, and all parts of the museum (the Geological, Zoological and Botanical sections) will be open for the evening. The Geological Museum is currently paying host to the famous exhibition “Messel on Tour”. Don’t miss the chance to see these marvellous fossils from Messel in Germany.

The barbeque party is the main social event for second week participants. You are advised to dress casually, with good, flat shoes and to bring an umbrella or raincoat. Do come and meet your friends on this light summer evening.

The Botanical Garden is located at Tøyen, just to the east of central Oslo. Underground: Tøyen.

Smuget Music Club evening

Tuesday 12 August, 20.30

Price: €45 per person including entrance, light tapas buffet and a glass of wine

The Congress has arranged a special evening event at Norway’s largest music club, Smuget. There will be a special programme including a live band and discotheque, exclusively for Congress participants.
Smøget is located in the city centre with more than 1000 square meters of floor space including two stages, six bars and four different sections - guaranteeing a great night! Smøget frequently hosts various shows with Norwegian artists, and all in all is a place worth checking out the whole week.

Smøget Music Club is at Rosenkrantzgaten 22. The closest underground station is Stortinget and recommended dress is informal.

**Closing ceremony**

Thursday 14 August, 13.30

Price: included in the Congress fee

The Closing ceremony of the 33rd IGC will take place in the plenary hall at the Congress venue, and is open to all participants, registered accompanying persons and exhibitors. The Organisers invite you all to this ‘goodbye to Norden’, and ‘welcome to Australia in 2012’!

**Sightseeing tours**

Sightseeing tours have been exclusively designed to give our guests the best possible impression of and insight into Oslo and its surroundings.

All tours will be offered in English only.

Tickets for sightseeing tours will be sold at the registration desk on a first-come first-served basis. The schedule and content is subject to change.

Please see the next page for an overview of the tours. Further, detailed information can be obtained at the social desk.

**Pre- and post-Congress sightseeing tours**

The Nordic countries can offer a range of attractive tours. Each country has its own website:

- www.visitnorway.com
- www.visitdenmark.com
- www.visitsweden.com
- www.visitfinland.com

Social events and sightseeing tours are subject to change. Please check the website for updates: www.33igc.org
# Overview of sightseeing tours

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<td><strong>Half Day</strong></td>
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<tr>
<td>1. Highlights of Oslo: Viking Ships, Vigeland Sculpture Park and Ekeberg viewpoint</td>
<td>09.30 - 13.00</td>
<td>€35</td>
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<td>2. Art tour: Munch Museum and National Gallery</td>
<td>14.00 - 17.30</td>
<td>€40</td>
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<td>3. Oslo by Sea dinner cruise including dinner buffet</td>
<td>19.00 - 23.00</td>
<td>€95</td>
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<td>4. City walk to Akershus fortress, City Hall and Nobel Peace Centre</td>
<td>14.00 - 17.30</td>
<td>€35</td>
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<td>5. The artists, Gustav Vigeland and Edvard Munch, friends or enemies?</td>
<td>09.30 - 13.00</td>
<td>€40</td>
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<td>6. Nordmarka hiking, including light refreshments</td>
<td>09.30 - 14.00</td>
<td>€45</td>
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<td>7. Historic Norway: Viking Ships and Norwegian Folk Museum</td>
<td>14.00 - 17.30</td>
<td>€45</td>
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<td>8. Norwegian Explorers: Viking Ships, Polar Ship FRAM and Kon-Tiki</td>
<td>14.00 - 17.30 (Sat: 09.30 - 13.00)</td>
<td>€45</td>
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<td>9. Hovikodden, Henie Onstad Art Centre, Bærumsværk Ironworks and Craft Centre</td>
<td>09.30 – 14.00</td>
<td>€50</td>
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<td><strong>Full Day</strong></td>
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<td>10. Hadeland Glassworks and Kistefoss Museum of Industry and Fine Arts</td>
<td>09.00 – 16.00</td>
<td>€85</td>
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<td>12. Kongsberg Silver Mines</td>
<td>09.00 – 16.00</td>
<td>€90</td>
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<td>13. ‘Norway in a Nutshell’: The Bergen Railway, The Flåm Railway, Norwegian fjords and waterfalls</td>
<td>06.30 – 22.30</td>
<td>€335</td>
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A-Z Congress Information

Certificate of participation

Certificates of participation will be issued to those who are properly registered. Certificates will be available at the registration desk and must be picked up before departure.

Coffee/refreshments

Coffee, tea and water will be served during the course of each day at refreshment stations throughout the venue.

Geohost office

Open from 6th to 14th August, 08.30-20.00, in Room Tønsberg (see the map of the venue on pages 10-11).

Internet and wireless network at the venue

Participants will have access to two Internet café areas. See the map of the venue.

Access to a free wireless network is available throughout the venue.

Language and interpretation

IUGS office

Open from 4th to 14th August, 08.30 - 20.00, in Room Bergen (see the map of the venue).

The official language of the Congress is English and no translation to other languages will be provided.

The vast majority of Norwegians speak good English, and some speak a little German, French or Spanish.

Lunch

Lunch is provided for Congress delegates every day except Wednesday 6th and Sunday 13th August. Lunch stations may be found throughout Norway Convention Centre between 12.00 and 14.00.

A vegetarian option will be provided at the lunch station closest to the Registration desk.

Lunch is sponsored by Saudi Aramco on 7th and 8th August, by Boliden on 12th August and by Maersk Oil on 13th August.

Posters

Posters are located in Hall C, the same area as the exhibition. The size of the poster boards for presentations is 145 cm wide and 135 cm high. Fixing material is available in the poster area.

Each poster will be displayed throughout the day of the poster session. At least one of the authors of the poster must be present at the poster board between 17.30 and 19.00 and during lunch and coffee breaks.

To maximise viewing times, authors must put up their posters between 08.00 and 10.00 and remove them between 18.30 and 19.00.

The Congress staff will remove posters not taken down on time, but are unable to take any further responsibility for the material.

Poster presentations will be held on the first day that a symposium runs with the following exceptions:

- Poster presentations in Wednesday, 6th August day 1 symposia will be held on Thursday, 7th August day 2
- Poster presentations in Thursday, 14th August day 9 symposia will be held on Wednesday, 13th August day 8

Presentation numbers

Each presentation has a unique number. This provides the following information:

1st 3 letters and 2 digits = symposium code
6th digit = day of presentation
7th and 8th digits = sequence of presentation

For example, AAA01232P is in symposium AAA-01, on day 2 (Thursday, 7th), sequence number 32, poster presentation.

Speaker Ready Room - uploading presentations

The Speaker Ready Room is located in Hall A (see the map of the venue). Speakers are asked to deliver their presentation to the assigned technician the day before their lecture and at the very latest 2 hours prior to their presentation. The Speaker Ready Room will be open from 07.30 in the morning. Please note that it is not permitted to use your own PC during your presentation. Presentations can not be delivered directly in the symposia rooms.

Venue opening hours

Access to Norway Convention Centre is available between 07.30 and 19.00.

A-Z Information and Services

Banks and money

Opening hours for banks are generally Monday to Friday, 09.00-15.00.

Currency exchange is available at The Tourist Information Centre by Post Office and 19.00 and Saturday 08.00 to 17.00.

Credit cards are accepted in tourist areas and most high street shops, though it is not possible to use cards which have not been issued by Norwegian banks in most supermarkets, corner shops and Post Offices.

The rate of exchange at time of writing is 1 Euro = 8 NOK (Norwegian kroner) and 1 US Dollar = 5 NOK.

Please note that shops do not accept currencies other than Norwegian kroner. It is also advisable to pay hotel bills in Norwegian kroner, if paying with cash.
Medical assistance

Please note that shops do not accept currencies other than Norwegian kroner. It is also advisable to pay hotel bills in Norwegian kroner, if paying with cash.

An ambulance may be called by dialing (+47) 113.

A Public Emergency Ward can be found at Storgata 40 in central Oslo, approximately 10 minutes walk from Oslo Central Station. The Ward is open 24 hours a day and the telephone number is (+47) 22 93 22 93.

Pharmacies/drug stores are called ‘apotek’ in Norwegian and are to be found throughout Oslo. The pharmacy opposite Oslo Central Station at Jernbanetorget 4B is open 24 hours a day.

Postal service

A postbox is located immediately outside the main entrance to Thon Hotel Arena. Stamps may be bought from Post Offices and in some shops. You may buy stamps and send parcels from the Kiwi supermarket at Lillestrøm station, Monday to Saturday between 07.00 and 23.00.

Shops and opening hours

Shops are generally open between 10.00 and 17.00, Monday to Saturday. Supermarkets often remain open until 21.00 or 18.00 on Saturdays. Only small corner shops and cafés are open during the early morning, evening, and on Sundays.

Tourist Information

The staff at the Registration and information desk at the venue will be happy to answer general questions. In Oslo, the main Tourist Information Centre is to be found by the City Hall at Fridthjof Nansens plass 5, and is open from 09.00 to 19.00 daily including Sundays. There is also a tourist information desk inside the ‘Trafikkanten’ Travel Service Centre, in front of Oslo Central Station and this is open 07.00 to 20.00 (from 08.00 on Saturdays and Sundays).

Tourist Information offices sell the ‘Oslo Pass’ which gives free admission to museums and sights as well as free travel on public transport for periods of 24, 48 or 72 hours. Please see www.visitoslo.com/en for more information.

Voltage

220 Volts, 50Hz AC. Standard European 2-round-pin plugs are used.

Additional information is available from the Registration and information desk and on the website: www.33igc.org
Join us and do what you do best!

When you are allowed room to develop top competence, you are not merely getting better at what you do. In fact, something happens to your entire environment. The tabloids call this working "in the flow", whereas we use more commonplace expressions. We rather talk about having fun at work!

It is difficult to see whether this adds to the bottom line, and difficult indeed to somehow quantify the fun factor. Those who work with what they’re best at enjoy themselves more at work. It’s that simple. And that complicated.

Welcome to Det norske!

Det norske is proud to sponsor GeoExpo 2008

www.detnor.no
Tøyen Underground Station for Barbeque Party

HOTELS

- Radisson SAS Nydalen
- Radisson SAS Fornebu
- Holmenkollen Park
- Clarion Collection Hotel Gabelshus
- Rica Helsfyr Hotel
- Rica Hotel Bygdøy Alle
- Thon Hotel Lillestrøm
- Thon Hotel Vika Atrium
- Thon Hotel Gyllenløve
- Oslo Youth Hostel Haraldsheimen
- Quality Hotel 33
- Thon Hotel Arena
Business Meetings

BM-01  International Medical Geology Association, IMGA
Contact: Olle Selinus - olle.selinus@sgu.se
12th August, 18.00-20.00, Room Oslo

IYPE

BM-03  Meeting of the IYPE Board
Contact: Ed De Mulder - e.demulder@planet.nl
7th August, 09.00-17.00, Room D11

BM-04  Meeting of the SIT leaders
Contact: Ed De Mulder - e.demulder@planet.nl
9th August, 09.00-18.00, Room Telemark

BM-05  Meeting of the Outreach Programme Committee
Contact: Ed De Mulder - e.demulder@planet.nl
9th August, 09.00-12.00, Room Troms

BM-06  Meeting of the IYPE National Committees
Contact: Ed De Mulder - e.demulder@planet.nl
9th August, 13.00-16.00, Room A1-3

CGMW

BM-07  Bureau meeting
Contact: Philippe Rossi - cgm@club-internet.fr
7th August, 09.30-17.30, Room Telemark

BM-08  General Assembly
Contact: Philippe Rossi - cgm@club-internet.fr
9th August, 12.30-21.00, Room Svalbard 1

BM-66  Meeting for the World Gravity Mapping Program
Contact: Philippe Rossi - cgm@club-internet.fr
8th August, 18.00-20.30, Room Nordland

International Commission on Stratigraphy (ICS)

BM-09  General business meeting
Contact: Felix Gradstein - f.m.gradstein@nhm.uio.no
7th August, 17.30-18.30, Natural History Museum in Oslo

BM-10  Subcommission on Quaternary
Contact: Felix Gradstein - f.m.gradstein@nhm.uio.no
6th August, 18.30-19.30, Room Åkershus

BM-11  Subcommission on Jurassic and Subcommission on Cretaceous
Contact: Felix Gradstein - f.m.gradstein@nhm.uio.no
6th August, 17.30-20.00, Room Hordaland

BM-12  Subcommission on Cambrian and Subcommission on Ordovician
Contact: Felix Gradstein - f.m.gradstein@nhm.uio.no
6th August, 17.30-20.00, Room Rogaland

BM-13  Subcommission on Neogene and Subcommission on Paleogene
Contact: Felix Gradstein - f.m.gradstein@nhm.uio.no
6th August, 17.30-20.00, Room Buskerud

BM-15  Subcommission on Triassic
Contact: Felix Gradstein - f.m.gradstein@nhm.uio.no
8th August, 17.30-19.00, Room Oslo

BM-16  Subcommission on Silurian and Subcommission on Devonian
Contact: Felix Gradstein - f.m.gradstein@nhm.uio.no
8th August, 17.30-20.00, Room Åkershus

BM-17  Subcommission on Carboniferous and Subcommission on Permian
Contact: Felix Gradstein - f.m.gradstein@nhm.uio.no
8th August, 17.30-20.00, Room Hordaland

BM-18  Subcommission on Precambrian and Subcommission on Cryogenian-Ediacaran
Contact: Felix Gradstein - f.m.gradstein@nhm.uio.no
8th August, 17.30-20.00, Room Rogaland

BM-19  Open meeting on "Redefinition of the Quaternary and Pleistocene: Open Discussion
Contact: Stan Finney - sclinney@csub.edu
9th August, 17.30-20.00, Room Nord-Norge

BM-59  Subcommission on Stratigraphic Classification (ISSC business meeting)
Contact: Maria Bianca Cita - maria.cita@unimi.it
10th August, 18.00-20.30, Room Åkershus

BM-20  AGID (Association of Geoscientists for International Development)
Contact: Shrikant D Limaye - limaye@vsnl.com
12th August, 18.00-20.00, Room Rogaland

IUGS

BM-21  IUGS Executive Committee
Contact: Anne Dehls - IUGS.Secretariat@ngu.no
4th August, 09.00-17.00, Room Bergen

BM-22  1st IGC Committee (Outgoing) Meeting
Contact: Anne Dehls - IUGS.Secretariat@ngu.no
5th August, 14.00-17.00, Room Telemark

BM-23  59th IUGS Executive Committee (Outgoing) Meeting
Contact: Anne Dehls - IUGS.Secretariat@ngu.no
5th August, 09.00-13.00, Room Telemark
BM-24 2nd IUGS-IGC Council Meeting (Registration starts at 08.30)
Contact: Anne Dehls - IUGS.Secretariat@ngu.no
6th August, 10.00-14.00, Room Jan Mayen 1, 14.00-17.00, Room A1-1

BM-79 2nd Informal Meeting of incoming and outgoing Executive Committee
Contact: Anne Dehls - IUGS.Secretariat@ngu.no
6th August, 17.00-17.30, Room Bergen

BM-26 IUGS Executive Committee Meeting with Affiliated Organizations
Contact: Anne Dehls - IUGS.Secretariat@ngu.no
8th August, 16.30-18.00, Room D11

BM-28 2nd IUGS-IGC Council Meeting continued (Registration starts at 09.00)
Contact: Anne Dehls - IUGS.Secretariat@ngu.no
10th August, 10.00-18.00, Room Jan Mayen 1

BM-32 2nd IGC Committee (Incoming) Meeting
Contact: Anne Dehls - IUGS.Secretariat@ngu.no
13th August, 16.00-17.30, Room Telemark

BM-36 Committee (Incoming) Meeting
Contact: Anne Dehls - IUGS.Secretariat@ngu.no
13th August, 09.00-12.00, Room Troms

BM-73 IUGS office
Contact: Anne Dehls - IUGS.Secretariat@ngu.no
From 4th to 14th August, 08.30-20.00, Room Bergen

BM-38 IAGOD General Assembly
Contact: Nigel Cook - n.j.cook@nhm.uio.no
9th August, 16.30-18.30, Room Rogaland

BM-39 Northern Europe Geochemistry Project (NEG) steering committee
Contact: Pasi Eliu - pasi.eliu@gtk.fi
10th August, 09.00-10.30, Room Troms

BM-40 Fenoscandinavian Ore Deposit Database project (FODD) steering committee
Contact: Pasi Eliu - pasi.eliu@gtk.fi
10th August, 10.30-12.00, Room Troms

BM-41 IGCP Project 510 (A-type Granites and Related Rocks through time)
Contact: Tapani Rämö - tapani.ramo@helsinki.fi
8th August, 18.00-20.00, Room Buskerud

BM-42 ICOGS
Contact: Arne Björlykke - Arne.Björlykke@ngu.no
11th August, 12.00-14.00, 15.00-18.00, Room Jan Mayen 2:1, 12:00, Room Nord-Norge

OneGeology

BM-43 Launching of the OneGeology portal
Contact: Jenny Forster - jforster@bgs.ac.uk
7th August, 11.00-14.00 Room A1-1

BM-69 OneGeology session
Contact: Jenny Forster - jforster@bgs.ac.uk
6th August, 16.30-17.00, Hall B (plenary)

BM-44 Technical group meeting
Contact: Jenny Forster - jforster@bgs.ac.uk
6th August, 08.00-14.00, Room Rogaland

BM-45 Press conference
Contact: Jenny Forster - jforster@bgs.ac.uk
6th August, 08.30-16.00, Rooms Jan Mayen 3:1 and Jan Mayen 3:2

BM-46 Steering group meeting
Contact: Jenny Forster - jforster@bgs.ac.uk
12th August, 13.00-20.00, Room Nordland

BM-47 Management group meeting
Contact: Jenny Forster - jforster@bgs.ac.uk
13th August, 14.00-18.00, Room Troms

International Association for Mathematical Geology (IAMG)

BM-48 General Assembly
Contact: Felix Gradstein - f.m.gradstein@nhm.uio.no
9th August, 16.00, Natural History Museum in Oslo

BM-49 Krumbein Medal and John Cedric Griffiths Teaching Award
Contact: Felix Gradstein - f.m.gradstein@nhm.uio.no
11th August, 18.00-20.00, Room Hordaland

BM-50 George Matheron lecture
Contact: Felix Gradstein - f.m.gradstein@nhm.uio.no
7th August, 18.00-19.00, Room Hordaland

BM-51 Council meeting
Contact: Felix Gradstein - f.m.gradstein@nhm.uio.no
8th August, 12.00-13.30, Room Vestfold

BM-52 Editorial board meeting: Mathematical Geosciences (formerly Mathematical Geology)
Contact: Felix Gradstein - f.m.gradstein@nhm.uio.no
6th August, 12.00-13.30, Room Vestfold

BM-53 Editorial board meeting: Computers & Geosciences
Contact: Felix Gradstein - f.m.gradstein@nhm.uio.no
7th August, 12.00-13.30, Room Hordaland

BM-54 Editorial board meeting: Natural Resources Research
Contact: Felix Gradstein - f.m.gradstein@nhm.uio.no
11th August, 12.00-13.30, Room Hordaland

BM-55 Publications Committee
Contact: Felix Gradstein - f.m.gradstein@nhm.uio.no
7th August, 19.00-20.00, Room Rogaland

BM-56 Student Affairs Committee
Contact: Felix Gradstein - f.m.gradstein@nhm.uio.no
6th August, 19.00-20.00, Room Oslo

BM-57 Joint meeting: Italian Association “Geologia e Turismo”, “Geologos” W.G. Of the IGEO and European Geoparks of UNESCO
Contact: Mario Panizza - mario.panizza@unimore.it
8th August, 18.00-20.00, Room Vestfold

BM-58 INHIGEO board meeting
Contact: Ken Bork - bork@denison.edu
7th August, 18.00-20.00, Room Buskerud

BM-60 AAB-02 and AAN-02 social evening
Contact: Ross Powell - ross@geol.niu.edu
12th August, 19.00-22.00, Room Akershus

ILP

BM-61 Bureau meeting
Contacts: Sierd Cloetingh - sierd.cloetingh@falw.vu.nl
Jörg Negendank - neg@gfz-potsdam.de
8th August, 18.00-20.00, Room Telemark

BM-62 Author meeting
(Springer book)

Contacts: Sierd Cloetingh - sierd.cloetingh@falw.vu.nl
Jörg Negendank - neg@gfz-potsdam.de
9th August, 18.00-20.00, Room Nordland

BM-63 Task Force IV members meeting
Contact: Larissa Dobrzhinetskaya - larissa@ucr.edu
7th August, 18.00-19.00, Room Vestfold

BM-64 International Mineralogical Association Commission on Ore Mineralogy
Contact: Nigel Cook - n.j.cook@nhm.uio.no
10th August, 16.00-18.00, Room Vestfold

BM-65 Young Earth Scientists Congress 2009 - Meeting of the International Organizing Committee
Contact: David Govoni - david.govoni@giovanigeologi.it
10th August, 09.00-18.00, Room D11

BM-66 Meeting for additional discussion GDP-01 (passive margin uplift)
Contact: Peter Japsen – pj@geus.dk
13th August, 18.00-20.00, Room Oslo

BM-67 International Association for GeoChemistry
Contact: Attila Demeny - demeny@geochem.hu
10th August, 14.30-17.30, Room Telemark

BM-71 Via Gealpina Management Committee
Contact: Luca Demicheli - luca.demicheli@apat.it
7th August, 13.00-17.30, Room Troms

BM-72 International Palaeontological Association (information meeting)
Contact: David A.T. Harper - Dhaper@snm.ku.dk
10th August, 14.00-17.30, Room A1-5

BM-74 IGE Geohost office
Contact: Asgeir Knudsen - asgeir@congrex.no
From 6th to 14th August, 08.30-20.00, Room Tonsberg

BM-76 IUGS/IAGC Task Group on Global Geochemical Baselines
Contact: David B. Smith - dsmith@usgs.gov
8th August, 14.00-17.00, Room D4

BM-77 CGI Council Meeting
Contact: Jennifer Forster - jforster@bgs.ac.uk
10th August, 08.30-18.00, Room Lillestrom

BM-80 GSI Editors’ Reception (by invitation only)
Contact: Angharad Hills - angharad.hills@geolsoc.org.uk
7th August, 17.30-20.00, Room Nordland

BM-81 Introduction to ‘A Night at the Opera’
Contact: Asger Knudsen - asgeir@congrex.no
8th August, 10.00-12.00, Room Jan Mayen 2:1
FIRST WORLD YOUNG EARTH SCIENTISTS (Y.E.S.) CONGRESS 2009

The YES Congress will take place in autumn 2009 and will last four days. During the Congress young earth-scientists (under 35 years) from different backgrounds and nations will discuss future trends in earth-system science, comparing also future opportunities for jobs and research in respective countries. The Congress will allow young scientists to discuss and address some of today’s important scientific challenges in a multi-disciplinary and international environment. The Congress will be organized on the basis of different parallel disciplinary roundtables. These roundtables are expected to involve not only young earth-scientists and professionals but possibly also young leaders and policy makers. The different roundtables will allow young representatives from many geological associations, institutions, universities, young leaders in politics, administrative bodies and the like from around the world to sit down together and discuss issues affecting the planet, in order to define a short list of long-term international actions to be taken, involving their respective institutions.

The aim of the Congress is also to create a long-term strong inter-cultural network to help the future improvement of research and working opportunities globally for young geoscientists and professionals.

GOALS:

– establish a strong networks of young professionals and researchers in different disciplines of earth science
– provide an opportunity for young scientists to present their concern and solutions regarding earth-science challenges (energy, water, climate change, etc.) to leading politicians, decision makers and media
– establish a network of young geo-scientist leaders and policy makers capable of working together to discuss and propose creative solutions in many important questions involving earth-sciences
– compare earth-science work perspectives in different disciplines and countries
– increase the research and professional quality of young scientists and professionals - update young professionals in their respective disciplines and inform them about best practices
– building a better future for a new generation of geoscientists, both in terms of conceptual matters (the role of the geosciences in solving some major problems of the modern society) and in terms of job opportunities

MEETING - OSLO IGC Congress 2008 - FIRST WORLD YOUNG EARTH-SCIENTISTS (Y.E.S) CONGRESS, Sunday 10th August 2008

The Organizing Committee’s first meeting will take place during the International Geological Congress in Oslo 2008. The following items will be proposed, discussed and approved:

– Selection and approval of the proposed roundables
– Congress President election
– Scientific Council President nomination
– Scientific council nomination
– Final decision of the date and place of the congress on the basis of different proposals and available hosting institutions


The 33rd International Geological Congress, Oslo 2008
The fairytale about the Ugly Duckling continues in deeper waters.

Since the DONG E&P Norge fairytale started 8 years ago, we have slowly but surely transformed from a shy duckling into a proud swan. The Oselvar find, our first drilling project on the Norwegian continental shelf, proved to contain both gold and promises of green pastures – we are now looking at possible development perhaps even before the end of the year. In May we started our second drilling project, and, since all good things come in threes, we are planning another drilling project on the Norwegian continental shelf before the start of 2009. DONG E&P Norge has assumed operator responsibility for the Trym gas field. Here too we are focusing on commencing operations as soon as possible. Last, but by no means least, Ormen Lange is exceeding expectations. In other words, the fairytale about Danish creative zest on the Norwegian continental shelf is very exciting at the moment – and there are more chapters in the pipeline!
Organisations related to the International Union of Geological Sciences

<table>
<thead>
<tr>
<th>Acronym</th>
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<tbody>
<tr>
<td>32 IGC</td>
<td>32nd International Geological Congress</td>
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<td>33 IGC</td>
<td>33rd International Geological Congress</td>
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<td>34 IGC</td>
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<td>AAG</td>
<td>Association of Applied Geochemists</td>
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<td>AAPG</td>
<td>American Association of Petroleum Geologists</td>
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<td>AAS</td>
<td>Australian Academy of Science</td>
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<td>AAWG</td>
<td>Association of African Women Geoscientists</td>
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<td>AEGS</td>
<td>Association of European Geological Societies</td>
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<td>American Geological Institute</td>
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<td>AGID</td>
<td>Association of Geoscientists for International Development</td>
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<td>AGSO</td>
<td>Geoscience Australia</td>
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<td>AGU</td>
<td>American Geophysical Union</td>
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<td>AIPEA</td>
<td>Association Internationale Pour l’Etude des Argiles</td>
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<td>CBGA</td>
<td>Carpathian Balkan Geological Association</td>
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<td>CCCDRLP</td>
<td>Coordinating Committee on Continental Drilling for International Lithosphere Program</td>
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<td>CCOP</td>
<td>Coastal Committee for Offshore and Geoscience in East and South East Asia</td>
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<td>CFES</td>
<td>Canadian Federation of Earth Sciences</td>
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<td>CGI</td>
<td>Commission on the Management &amp; Application of Geoscience Info.</td>
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<td>CGMW</td>
<td>Commission for the Geological Map of the World</td>
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<td>CIFEG</td>
<td>International Center for Training and Exchanges in the Geosciences</td>
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<td>CODATA</td>
<td>Committee on Data for Science and Technology</td>
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<td>COGE</td>
<td>IUGS Commission on Education, Training and Tech Transfer</td>
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<td>COSPAR</td>
<td>Committee on Space Research</td>
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<td>COSTED/ IBN</td>
<td>Committee on Science &amp; Technology in Developing Countries</td>
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<td>CPC</td>
<td>Circum-Pacific Council</td>
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<td>DOSECC</td>
<td>Drilling, Observation and Sampling of the Earth’s Continental Crust</td>
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<td>European Association Geological Engineering</td>
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<td>EMU</td>
<td>European Mineralogical Union</td>
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<tr>
<td>Episodes</td>
<td>Episodes, IUGS’ quarterly journal</td>
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<td>GARS</td>
<td>IUGS/UNESCO Program on Geological Application of Remote Sensing</td>
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<td>GEM</td>
<td>Geoscience for Environmental Management</td>
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<td>GV</td>
<td>Geologische Vereinigung</td>
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<td>IAEG</td>
<td>International Association of Engineering Geology and the Environment</td>
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<td>International Association of Geomorphologists</td>
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<td>International Association of GeoChemistry</td>
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<td>International Association on the Genesis of Ore Deposits</td>
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<td>International Association of Hydrogeologists</td>
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<td>International Astronomical Union</td>
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<td>ICL</td>
<td>International Consortium on Landslides</td>
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<td>ICS</td>
<td>International Commission on Stratigraphy</td>
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<td>ICSU</td>
<td>International Council for Science</td>
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<td>ICSU Regional Office for Africa</td>
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<td>ICSU Regional Office for Asia and the Pacific</td>
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<td>IFPS</td>
<td>International Federation of Palynological Societies</td>
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<td>IGCC</td>
<td>International Geological Congress Committee</td>
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<td>IGCP</td>
<td>IUGS-UNESCO International Geoscience Program</td>
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<td>IGEO</td>
<td>International Geoscience Education Organisation</td>
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<td>International Geographical Union</td>
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<td>International Lithosphere Program</td>
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<td>International Mineralogical Association</td>
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<td>IMGA</td>
<td>International Medical Geology Association</td>
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<td>INHIGEO</td>
<td>International Commission on the History of Geological Sciences</td>
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<td>INQUA</td>
<td>International Union for Quaternary Research</td>
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<td>IPA</td>
<td>International Palaeontological Association</td>
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<td>IPA</td>
<td>International Permafrost Association</td>
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<td>ISPRS</td>
<td>International Society for Photogrammetry and Remote Sensing</td>
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<td>ISRM</td>
<td>International Society for Rock Mechanics</td>
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<td>ISSMGE</td>
<td>International Society of Soil Mechanics &amp; Geotechnical Engineering</td>
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<td>IUGG</td>
<td>International Union of Geodesy and Geophysics</td>
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<td>International Union of Geological Sciences</td>
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<td>IUSS</td>
<td>International Union of Soil Sciences</td>
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<td>IYPE</td>
<td>International Year of Planet Earth</td>
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<td>Met. Society</td>
<td>Meteoritical Society</td>
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<td>NGWA</td>
<td>National Ground Water Association</td>
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<td>ProGEO</td>
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<td>SCAR</td>
<td>Scientific Committee on Antarctic Research</td>
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<td>SCFCS</td>
<td>Standing Committee on Freedom in the Conduct of Science</td>
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<tr>
<td>SC-IGBP</td>
<td>Scientific Cte. for the International Geosphere-Biosphere Prog.</td>
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<td>SCOPE</td>
<td>Scientific Committee on Problems of the Environment</td>
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<td>SCOR</td>
<td>Scientific Committee on Oceanic Research</td>
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<td>SEG</td>
<td>Society of Economic Geologists, Inc.</td>
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<td>SEPM</td>
<td>Society for Sedimentary Geology</td>
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<td>SGA</td>
<td>Society for Geology Applied to Mineral Deposits</td>
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<td>TECTASK</td>
<td>Task Group on Tectonics and Structural Geology</td>
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<td>TGGB</td>
<td>IUGS Task Group on Global Geochemical Baselines</td>
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<td>TIGG</td>
<td>Isotope Geology and Geochronology</td>
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<td>UNESCO</td>
<td>United Nations Educational, Scientific and Cultural Organization</td>
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<td>URSI</td>
<td>International Union of Radio Science</td>
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<td>WGCOM</td>
<td>Working Group on Communicating Geoscience Information</td>
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<td>WGDC</td>
<td>Working Group on Geoscience Applications for Developing Countries</td>
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<td>WGSAG</td>
<td>Working Group on the Societal Applications of the Geosciences</td>
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The Geohost Stipend Programme and its grantees

The 33rd IGC Geohost Stipend Programme was developed in accordance with the principles originally outlined by the Organising Committee of the 28th IGC; giving priority to young scientists with academic Earth Science qualifications. A Geohost Committee was established, including representatives of the five Nordic countries as well as the non-profit Norwegian government foundation Petrad. The funds were provided by the Norwegian Ministry of Foreign Affairs, the Swedish and Finnish Development Agencies and the 33rd IGC Organizing Committee. The Geohost Committee was also in charge of the selection of recipients for a separate fund provided by the European Science Foundation (ESF).

The Geohost Committee met in Oslo on 14 February 2008 to undertake the selection procedure. The aim of the Geohost Committee was to satisfy the greatest possible number of applications from the greatest number of countries. The selection of applications was made on the basis of the documents submitted by applicants and selection criteria were: nationality, age, gender, role in congress, and qualifications/position. All the applicants were notified of the decision taken by the Geohost Committee by 28 February and were requested to express their acceptance no later than 15 March. Detailed confirmation letters regarding attendance preferences and accommodation were sent by 2 April.

Nearly 10% of the recipients initially selected declined or did not answer. With the resulting available funds it was possible to give some support to all the applicants placed by the Committee on the waiting list and to offer some grants to a few more late applicants, selected on the basis of their scientific contribution to the Congress. In total there were 571 stipends allocated, 347 to men and 224 to women from totally 71 Countries. This represented 61% of the total number of applications. All 571 were granted waiver of the registration fee, 439 received free accommodation in Oslo for the duration of their stay during the Congress, and no travel grants were awarded.

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Innovative technology development is at the very core of Maersk Oil. Through breakthrough technologies and teams of dedicated professionals we have a proven track record of extracting oil and gas efficiently from challenging fields.

Explore more at www.maerskoil.com
Award Presentations during the Closing ceremony

The 33rd IGC NordForsk Poster Award

NordForsk, the research organisation of the Nordic Council of Ministers, will award three prizes to the value of NOK 25,000 each for the best poster presentation given by a PhD student from a Nordic university.

A committee comprised of members from each of the Nordic countries and led by Dr. Harry Zilliacus of NordForsk will review the posters both before the Congress and at the poster presentations during the Congress. The prize money will be transferred to the winners’ university, earmarked for the winner.

Only authors who submit their posters to NordForsk before 28 July are eligible to take part in the competition.

The Digby McLaren Medal and the ICS Medal

The International Commission on Stratigraphy (ICS) will award the two ICS stratigraphy prizes: the Digby McLaren Medal and the ICS Medal. The ICS Prize Committee is chaired by Prof. Stanley C. Finney.

The prizes were established to recognise the key role of stratigraphy in addressing a range of geological problems, especially those of global impact.

The Digby McLaren Award recognises a significant body of internationally important contributions to stratigraphy. It is named after, and in honour of, the Canadian geologist Digby McLaren, who is responsible for the first Geological Stratotype Section and Point (GSSP): the Silurian – Devonian boundary.

The second medal, the ICS Medal, is awarded to recognize a singular major achievement in Stratigraphy. For this reason it usually goes to a younger stratigrapher, early in his/her career, using the latest techniques and making the greatest advances early in his/her life.

IAGC Awards

The International Association of GeoChemistry (IAGC) will hold its awards ceremony in connection with the Arthur Darnley Symposium on 9th August, immediately before the lunch break. The winners of the Hitchon Award for an outstanding paper published in the IAGC journal, Applied Geochemistry, the recipients of five certificates of recognition, and two new IAGC fellows will be announced. The Vemodsky Medal will be awarded to Prof. Bjorn Bolviken, an exceptionally curious and creative Norwegian geochemist, for a lifetime contribution to modern Applied and Regional Geochemistry.

Quaternary section including the last interglacial period. Norway. Excursion No. 42.
Photo: Winfried Dallmann, Norwegian Polar Institute.

The Hyrne in Hornsund, Svalbard. Norway. Excursion No. 44.
Photo: Winfried Dallmann, Norwegian Polar Institute.
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Shell is meeting the challenge of growing energy demand by discovering new hydrocarbon resources that can be produced economically, efficiently and safely.

Continued progress in geosciences is fundamental to achieve this.

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Workshops

No additional fee is required for participation in these workshops unless specified below. Where a fee is payable, this should be paid to the organisers of the individual workshop.

WSS-03 Delivery of geoscience information using web services
Bruce Simons, John Laxton (CGI-IUGS)
Contact: Bruce.Simons@dpi.vic.gov.au
10th August, 09.00 - 14.00, Room Vestfold

This workshop will provide participants with an understanding and demonstration of the latest developments in the CGI-IUGS GeoScience Mark-up Language (GeoSciML2). GeoSciML2 is a geospecific, specific XML-based GML (Geography Markup Language) application that supports interchange of geoscience information. GeoSciML2 is being developed through the Interoperability Working Group of the Commission for the Management and Application of Geoscience Information (CGI), a commission of the International Union of Geological Sciences (IUGS). The Working Group consists of geology and information technology specialists from agencies in North America, Europe, Asia and Australia. The GeoSciML2 application is a standards-based data format that provides a framework for application-neutral encoding of geoscience thematic data and related spatial data. Ultimately participants in the OneGeology project will use GeoSciML to deliver geological map data via web feature, mapping and coverage services. The proposed workshop outline is:
1. Introduction What are the aims of GeoSciML What does GeoSciML2 cover
2. Testbed 3 demonstration What Use cases are being delivered
3. A description of the data model content
4. Examples of how different testbed organisations have mapped their data to the model
5. Examples of how different organisations have used WFS/AWMS technology to deliver the data
How OneGeology is using GeoSciML2 Using GeoSciML in 3D
6. How to achieve semantic interoperability
Participation: Open to all registered IGC participants.

WSS-04 Funding geological research - the challenges for Earth system science
Harold R. Lane, Yupeng Yao, Sören Dür
Contact: hlane@nsf.gov
10th August, 09.00 - 18.00, Room Buskerud

WSS-05 Geoconservation for sustainable development and Earth science propagation, geoheritage, geosites, geoparks
Bill Wimbeldon, Joy Jaqueline Pereira, Todor Todorov, Illya Fishman, Lars Erikstad, Francesco Zarlenga (IUGS-ProGEO, IUGS-GEM)
Contact: igrkas@nursat.kz; yulia.kazakova@mail.ru
10th August, 09.00 - 18.00, Room Rogaland

WSS-06 Geoscience education in colleges and universities in Africa
Rosemary Olive Mbone Enie, Barth N. Ekwueme
Contact: camvisiontrust@yahoo.co.uk
10th August, 09.00 - 18.00, Room D 5

The field of Geosciences Education in Africa is undergoing a period of rapid change:
- At school level the Geosciences have, in addition to Human and Social Sciences or Geography, become incorporated into the Natural Sciences.
- Practicing Science teachers will need in-service training to teach this new topic and student teachers will require pre-service training in how to teach the geosciences as part of the Natural Sciences.
- Education at all levels is changing to an Outcomes Based Education format and must comply with National requirements.
- Higher education organizations are merging.
- Disciplines like Environmental Geosciences are becoming more important.
- Many qualified geoscientists are having to find employment outside of large corporate companies as consultants. It is for these reasons that we would like to propose the formation of a Pan African Geosciences Educators Association that will bring primary, secondary and tertiary geosciences teachers to discuss the changing face of the discipline as well as the best methods of teaching Geosciences at different levels. This workshop will be particularly historic as it will mark the formation of the Pan African Association of Geosciences Educators. The one day workshop will be addressing the following issues: “How best can fieldwork be used in Geosciences Education?” In addition, we are hoping to have a number of international specialists in Geosciences Education from across Africa sharing their experience with us. You are, therefore invited to attend the workshop or to make a presentation on one of two themes. “The possible role that an organization for Geosciences Educators could play, “Success stories in Geosciences Education” and “How best fieldwork can be used in Geosciences Education?” The workshop will be a particularly prestigious occasion as it will form part of the Africa Celebrations of the 33 IGC and will incorporate the first meeting of the Pan Africa Geological Society bringing geoscientists from across Africa.

WSS-07 Impact structures
Henning Dypvik, Alex Deutsch, Elin Kalleson
Contact: henning.dypvik@geo.uio.no
10th August, 09.00 - 18.00, Room Nordland

In this workshop we would gather scientists interested in the studies of impact cratering; focusing on mechanisms of cratering and ejecta formation, impact modelling and case studies. One aim of the workshop would be to bridge the gap between the observational (field and lab) studies, modelling and numerical analyses, in order to better understand the mechanisms of cratering and ejecta formation. In the workshop contributions may range from detailed geochemistry and microscopical studies, via textural and structural characteristics of special cases, and all the way to theoretical modelling and
simulations of the information. We in addition will arrange, if of interest, discussion groups within topics suggested by the participants. In relation with the Gardnos excursion, to be visited the following Sunday, we hope to present the latest scientific results from the Gardnos structure.

**WSS-08 Integrated basin-play - prospect risk and resource assessment for oil and gas exploration**

Darrel Norman, Per Audun Hole

Contact: per@geoknowledge.com

10th August, 09.00 - 18.00, Rooms Jan Mayen 3:1 and Jan Mayen 3:2

The workshop will focus on new methods and ideas for quantitative assessments of Resources in Basins, Plays and Prospects of different maturity. The idea being exploring and sharing the current best practise and future ideas on how to improve current methodologies and workflows for quantification of resources in both mature and frontier areas. Experts from industry and academia will be invited to submit papers related to the listed topics. Workshop Topics:

- Modelling volume and risk dependencies between plays and prospects using probabilistic assessments
- Aggregation of Resources with dependencies Basin - Play - Prospect
- Qualitative versus Quantitative play assessments
- Uncertainty in volume estimates in unexplored basins and plays (arctic regions), methods for quantification.

**WSS-09 Lapland Granulite Belt (LGB) and 1.9 Ga assembling of the Northeastern Baltic (Fennoscandian) Shield**

Pekka Tuisku, Pekka Heikkinen, Hannu Huhma (IGCP 509)

Contact: pekka.tuisku@oulu.fi

10th August, 09.00 - 18.00, Room A1-6, Fee: €700

Description: The field trip will take four days and contain both field examples and additional evening sessions for presentation of the data, including cross large scale structure from seismic reflection, airborne and surface geophysics and field mapping, to microscopic features and thin section study. The workshop is focused on the ~ 1.9 Ga evolution of the Lapland granulite belt (LGB) and its role in the assembling of the Fennoscandian shield. The topics will include provenance of the metasediments, nature of the sedimentary basin, the burial and high-grade metamorphism of them, subduction processes and arc magmatism of the LGB and exhumation of the belt and the isotopic dating and the significance of these processes in the assembling of the Shield and Global Correlation. The structure of the area will be presented and volcanism and ophiolite obduction preceding the formation of the LGB and assembling of the continent will be demonstrated, as well as overprinting by granulite event. Also, the origin of gold, platinum and other heavy minerals will be discussed according to previous and current research. A visit to Gold Prospector Museum at Tankavassaa will be included. Duration: 4 days.

The workshop/excursion is open to all IGC33 participants

Fee includes coach transport, meals and accommodation during the excursion

Field guides: Pekka Tuisku, Eero Hanski, Toivo Korja

Start and end: Oulu (there are regular flights to Oulu through Helsinki)

Transport: by coach from and to Oulu.

**WSS-11 New developments in stratigraphic classification**

Maria Bianca Cita, Chris Kendall, Andreas Strasser, Stan Finney (ICS)

Contact: maria.cita@unimi.it

10th August, 09.00 - 18.00, Room Akershus

Stratigraphic classification is an important tool for deciphering the complex sedimentary records of Earth History and a means of communication among scientists. The workshop wants to bring together specialists in litho-, bio-, chemo-, magneto-, cyclo-, sequence-, and chronostratigraphy to discuss ways to adapt the classification to the new developments in stratigraphic research. At the same time, the nomenclature should be attractive and easy to apply. The workshop is organized by the Subcommission on Stratigraphic Classification of the International Commission on Stratigraphy, but is open to the Earth community at large. The workshop will be run in a Penrose conference style, starting with a series of keynote presentations on the various subdisciplines of stratigraphy, some of which derive from the introduction of new methodologies. Discussion groups will be organized for the more controversial issues, followed by an open forum discussion. Aim of the workshop is to reach a consensus, or at least a large majority on some critical points that will allow a better understanding of the history of our planet. The ultimate goal is an update of the International Stratigraphic Guide, which should become a widely used and respected reference for stratigraphers worldwide.

**WSS-13 Paleontological data analysis and modelling**

Øyvind Hammer et al.

Contact: ohammer@nhm.uio.no

10th August, 09.00 - 18.00, Room Hordaland

Modern data analysis and modelling are now standard components of descriptive paleontology, and also open up exciting research possibilities within analytical paleontology. We will review the main directions within this field, and discuss new methods. The focus will be on practical aspects, for paleontologists without special background in statistics or mathematics, but we also hope to provide a forum for expert discussion. Subjects include:

2. Biodiversity: Richness, turnover and diversity estimation, sampling bias.
4. Quantitative biostatigraphy. CONOP, RASC, UA, AEO and other new approaches.
5. Spatial data analysis to study fossil distribution on all scales.
6. Time series analysis.
Spectral analysis of fossil data (cyclobiostratigraphy).
Trends and transients (breaks).
7. Theoretical morphology, morphogenetic modelling, morphospaces.
9. Paleoclimatic reconstruction from fossil data (transfer functions etc.).
Conveners are Øyvind Hammer and Mikael Fortelius. Important software packages will be demonstrated, including the popular PAST program. The workshop will be an opportunity for PAST users to discuss the software with the developer. Experts will be invited to discuss particular subjects. All participants are invited to give short presentations. We plan two three-hour sessions, with around ten participants.

The workshop is open to all IGC participants.

WSS-14 *PaleoParks: The conservation and preservation of palaeontological sites worldwide*

Jere H. Lipps et al.

Contact: jlipps@berkeley.edu

10th August, 09.00 – 14.00, Room A1-5

A workshop, in a continuing a series started at IGC 32, to bring together palaeontologists and others who are informed about the need for and status of the conservation and preservation of palaeontological sites worldwide that have heritage, educational, touristic, or scientific values. The workshop will consist of presentations about such sites, discussion of them, and of the process of identifying such sites and how to get them recognized and preserved. Such fossil sites range from small, locally significant ones to large national parks and preserves. This workshop intends to develop the rationale for preserving sites and the mechanisms to identify, establish, and protect them, as well as ways to involve the local citizens and other stakeholders. Legal preservation could be at the national, regional or local levels. The workshop also intends to develop scientific, educational and recreational aims applicable to palaeontological resources. It will also identify existing palaeontological sites that are currently protected in various ways in order to understand the range of situations, values and endeavors underway now. The effort is supported by the International Palaeontological Association.

The workshop is open to all 33rd IGC participants.

WSS-16 *Representative sampling - an ongoing geoscience challenge*

Kim H. Ebsen

Contact: kes@aaue.dk

10th August, 09.00 – 13.00, Room Telemark

Sampling is the unique link between field occurrence of all types of geological objects: formations, rocks, minerals, mineralisations ... and the laboratory. The interaction between the geologist and the wide-spread laboratory facilities & analytical methods available is the SAMPLE: petrographic, mineralogical, geochemical. Sampling is the defining active element in the geoscience process in the field, but equally important is the various steps of mass reduction carried out in the laboratory on the way towards the often miniscule mass or volume actually analysed. Sampling rates (from field occurrence to analysis) often covers six orders of magnitude (or more). What then is a representative sample? The issue is - paradoxically - far from a consensus in geology as indeed in many related sciences, in technology and industry. It is often not appreciated that sampling errors routinely reach 50 - 100 times the analytical error per se - making the world's continuing efforts of ever diminishing analytical error practically irrelevant (sic). The theory of Sampling (TOS) is the only complete scientific theory of sampling for all types of heterogeneous materials and for time-dependent, dynamic process sampling. This 1-day workshop presents TOS in the entire theoretical and practical context of representative field -, process - and laboratory sampling (mass reduction). Participants will be presented overview lectures by some of the world's leading sampling experts from mining, geology, process industries and technology in which all basic principles of TOS will be elucidated and illustrated by practical examples and case histories. Participants have the opportunity to interact in round-table discussions at the conclusion of the workshop. It is possible to formulate TOS as set of only seven.

WSS-17 *Sustainable mineral resource management - industrial minerals and aggregates*  
Deborah Shields, Slavko Solar

Contact: dshields@lamar.colostate.edu

10th August, 09.00 – 19.00, Room D2

Geologists are fully aware of the importance of achieving a sustainable future, but often are unclear how their skills, and geologic information, can contribute to the sustainability debate. It is crucial that geologists — from students to those already practicing or teaching — have a clear understanding of the concepts and practice of sustainability if they are to help solve the environmental, social and resource threats facing the world. The purpose of this workshop is to give geologists a thorough grounding in sustainable development theory as it relates to mineral resources by reviewing how firms address sustainability at the corporate and site level, and how governments address these issues through policy and regulation. The workshop will begin with a brief introduction to the need for and language of sustainability. Next, these concepts are applied to mineral resources, with particular emphasis on industrial minerals and aggregates. The first part of the workshop will be concluded with a comparison of governmental and corporate sustainability policies, including consideration of how they interact and influence each other. In the second part of the workshop, case studies will be used to illustrate what nations and firms are currently doing. We will end with a short visit to an industrial minerals/aggregate company, where management will describe the actions they have taken to implement sustainable management practices.

The workshop is open to all interested IGC participants.

WSS-18 *Trondhjemites, tonalites, plagiogranites and adakites: Similarities, differences and petrogenesis*  
Jan Hertogen, David Roberts, R.B. Pedersen, Joseph Cotton

Contact: jan.hertogen@geo.kuleuven.be
Natural Radiations. While most European countries first agreed to contribute to this project by sharing local statistics of indoor measurements that are currently collected on a 10 by 10 km grid covering Europe, they also felt that a geogenic radon map of Europe should be produced to explain the main sources (geology, soil types, meteorology) of spatial variations in the measured indoor radon concentrations. It is the purpose of this workshop not only to discuss pending technical and scientific issues related to preparing the European map of indoor radon concentrations, but also - and mainly - to agree on a method that could be used to derive a single European map of the geogenic radon potential. Although potentially interesting to anyone working in the field of radon, the workshop is primarily targeted at European authorities and researchers involved in radon mapping related fields. The one-day workshop will mainly be organized as a round table moderated by the Organizing Committee, but a few presentations will be made to steer the discussions. Open to all IGC participants.

WSS-21 Issues for geologists in 21st century - mitigation of man's influence and serving society's needs

Isabel Fernandez Fuentes, Herald Lichtenberg (EFG)

Contact: efgbrussels@gmail.com

9th August, 09.00 - 14.00,
Room D11

The impact of society on the environment increases every year. As a result the influence of man on his environment, and the environment on man, becomes more intimate. One consequence is that conflict over use or priority and hazards appear more frequently. The demands that man puts upon our world are increasing rapidly and yet society also demands that the cost of this is minimised. Geologists have a major role to play in satisfying society's demands, whether this is in understanding and mitigating climate change, in the finding and sustainable use of natural resources or mitigating anthropogenic and controlling hazards. The session will discuss what the geological profession can do in the service of society, by raising awareness of the issues, and encouraging regulators to incorporate appropriate actions in regulations relating to mans use of the subsurface. We envisage that contributions could include awareness of natural hazards, mitigation of climate change (CO2 sequestration, geothermal energy), and maintenance of sustainable resources.

WSS-22 The future workforce of the geosciences - a global crisis?

Christopher M. Keane et al.

Contact: keane@agiweb.org

10th August, 09.00 - 14.00,
Room A1-3

The geosciences on a near-global basis are facing issues related to the future workforce and continuity of the profession. A large proportion of working geoscientists are nearing retirement, with as much as 50% of the US industry workforce retiring within 10 years. This situation has been coupled with well-documented reductions in primary, secondary, and university geosciences education programs in many countries. This has constrained much of the new supply of geoscientists to replace the retiring professionals. This session proposes to bring together members of the global community who are focused on these workforce issues. The American Geological Institute (AGI) has led the collection and analysis of workforce information in the United States for nearly 60 years, and with its partners in government, industry and academia, has a unique and informed US perspective of the current situation as well as how global dynamics feed into the US workplace. Through this session, perspectives from Europe, Asia, and the developing world about the issues of supply and demand for geoscience workers will be solicited and melded together with an understanding of the North American market to establish a global perspective on the issue, to compare efforts to address future workforce needs, and to develop synergies across international borders to strengthen those efforts.
Short Courses

A fee is charged for short courses where shown, and should be paid to the organisers of the individual short course.

SCS-01 Geology from the air - Introduction to airborne exploration geophysics
Markku Peltoniemi
Contact: Markku.Peltoniemi@tkk.fi
10th August, 09.00 - 18.00, Room D6, €60

Significant progress in the technology, methods and applications of airborne geophysics has taken place during the 60 years that the capability has been available, and important advances are still to be expected. Understanding the links between the geophysical parameters measured with airborne surveys, petrophysical properties, and the relevant geological properties such as soil and bedrock composition and structure is essential for a successful regional mapping or exploration project. Audience The course is designed for geologists and geophysicists working in geological mapping, minerals exploration and engineering projects. Prerequisites The level of presentation is introductory, with main emphasis on understanding the prerequisites, strengths and limitations of airborne survey methods. Participants are expected to have basic knowledge and experience in geological mapping and exploration projects, but no prior experience in airborne geophysical survey techniques is assumed. Objective Participants to the course will understand the essentials of airborne geophysics so that they can evaluate the usefulness and application potential of the methods and results in their projects, and can contribute to the design of new airborne surveys to meet their project needs.

Contents • Introduction • Support technologies, cost & safety issues • Aeromagnetic method Earth magnetism Airborne measurements of the Earth's magnetic field Magnetic anomalies Interpretation and examples • Airborne electromagnetic method Electromagnetic induction Implementation in frequency and time domain Interpretation and examples • Airborne gamma-ray spectrometry Natural radioactivity and gamma radiation Gamma-ray measurements Interpretation and examples • Airborne gravity method Why is it so difficult? Practical examples

The fee covers participation and a copy of Course Notes.

SCS-02 Medical geology
Olle Selinus, Edward Derbyshire, Jose Centeno, Robert Finkelman
Contact: olle.selinus@gmail.com
10th August, 09.00 - 18.00, Room D7, €100 (students: €50)

The scope of this short course in medical geology is to share the most recent information on the relationship between impacts of toxic metal ions, trace elements, natural dusts, and their impact on the environmental and public health issues. The scientific topics of the short course will include environmental toxicology, environmental pathology, geochemistry, geoenvironmental epidemiology, extent, patterns and consequences of exposures to toxic metal ions and dust in the general environment (with the stress on the water quality), biological risk assessment studies, modern trends in metal analysis and updates on the geology, toxicology and pathology of metal ion and dust exposures. The course in different lengths and versions has been held with great success in almost 40 countries. Many thousand participants have followed the course organised by the International Medical Geology Association (IMGA). For more information see www.medicalgeology.org - Short courses.

The fee covers participation and a copy of Course Notes and additional relevant material. Included is also a 30% discount of the book “Essentials of Medical Geology”.

SCS-03 Quantitative aspects of medical mineralogy
A. Umran Dogan & Meral Dogan
Contact: umran-dogan@uiowa.edu
10th August, 09.00 - 18.00, Room D8, USD 250 (students: USD 120)

Medical mineralogy is a subspecialty of medical geology and deals with quantitatively characterizing health related (hazard/benefit) minerals and elements in rocks, soil, air, and water. These minerals and elements require state-of-the art techniques and must be characterized by certified labs or individuals. The World Health Organization classified erionite (a zeolite group mineral with three different species as erionite-K, erionite-Na, and erionite-Ca); chrysotile (a serpentine type asbestos); and tremolite, actinolite, grunerite (amosite), riebeckite (crocidolite), and anthophyllite (amphibole type asbesitos); and cristobalite (silica group mineral) as human carcinogens. These minerals and some recently recognized health hazard minerals including edenite, winchite, richterite, magnesio- riebeckite, magnesio-arvedsonite, etc. (not classified as carcinogens yet) when inhaled, taken orally, or on dermatological contact, may play major roles in a range of human health problems. To assess the potential toxicity of any of these minerals quantitative parameters including size, shape, aspect ratio, composition, crystal structure, surface structure, surface reactivity, surface area, solubility, durability, tensile strength, porosity, and permeability are important considerations. Together with the quantitative characterization of minerals, the exposure data is required before any mineral-induced pathogenesis can be determined. Understanding the possible mechanisms that may induce, or could preclude unwanted biological responses, and to suggest and evaluate prevention, cure or remidiation from mineral induced diseases is an active area in medical mineralogy. The Short Course will be specifically devoted to Quantitative Aspects of Medical Mineralogy. Virtual Medical Geology Research Center(s) will aid to characterize these health-hazard minerals and elements (whether or not classified as carcinogens) quantitatively.

SCS-04 Modern prospect assessment: Risk and uncertainty for today's prospect evaluations
Darrel Norman, Per Audun Hole
Contact: per@geoknowledge.com
8th August and 9th August, 09.00 - 18.00, Room Nordland, 4900

Objectives; This course is an introduction to the methods required for assessment of the risks and uncertainties in a contemporary prospect evaluation. Participants will learn the principles that should be applied when assessing both simple and complex prospects. The course combines lectures, discussion and numerous exercises. Exercises are designed to promote understanding and mastering of the fundamentals of methodologies and analytics. The exercises therefore involve simple calculations using hand-calculators and manual simulators. Content • Philosophy of modern prospect assessment • Basic prospect volumetrics • Volume uncertainty and risk • Introduction to Monte Carlo simulation • Prospect segmentation concepts • Aggregating multiple-segment prospects • Complex risk and volume relationships • Interpreting prospect assessment results • Alternative assessment models • Bayesian risk modification • Assessment performance tracking • Basic economic evaluation

Instructor: Darrel Norman, Chief Geoscientist, GeoKnowledge

Who Should Attend: Geoscientists, engineers, economists, or managers engaged in the probabilistic assessment of exploration prospect volumes and risks.

SCS-06 Paleoseismology
Nils-Axel Mörner, Jim McCalpin, Frank Audemard, Sue Dawson

Contact: morner@pog.nu
10th August, 09.00 - 18.00, Room D9

Paleoseismology arose as a new, separate subject with the creation of a Sub-commission on “Paleoseismicity” of the INQUA Commission on Neotectonics in 1981. The subject has rapidly increased and matured as testified by the multiple activities at this congress. Geology is the key to a meaningful inventory of past seismic activity, and from that, a long-term seismic hazards assessment. The data come from geomorphology, structural geology, sedimentology and from various geophysical records. Both primary (faults, fractures) and secondary (liquefaction, slides, tsunamis, etc) evidence have to be considered. Ideally, a paleoseismic event is recorded by multiple types of field evidence. Dating plays a central role in the establishment of a reliable chronology allowing meaningful seismic hazard assessment. Sometimes, the seismic activity differs significantly between the present and the past; as in the case of Sweden in deglacial vs present times. This course is directly linked to the pre-congress excursion “Paleoseismicity and Uplift of Sweden” (No. 11) and the three symposia within “Paleoseismology”. Preliminary program (the participants may interact with their own case-studies):

INTRODUCTION Paleoseismology (Mörner) PRIMARY EVIDENCE 1: Evidence of repeated paleoseismic activity along major faults in northern South America (Audemard) PRIMARY EVIDENCE 2: Neotectonics and paleoseismics as recorded by trenching (McCalpin) SECONDARY EVIDENCE 1: Liquefaction as evidence of paleoseismic events (Mörner) SECONDARY EVIDENCE 2: Tsunamis as evidence of paleoseismic events (Dawson)

METHODS 1: DATING in paleoseismology (Mörner & Audemard) METHODS 2: GEOPHYSICS; The use of magnetic methods (Mörner & Sun) SPECIAL CASE 1: Neotectonics, paleoseismicity and methane venting (Mörner) APPLICATIONS 1: Application of the INQUA Intensity Scale to Paleoseismic Studies (Audemard & Michetti) APPLICATIONS 2: Records of regional discontinuity in seismic activity over time (Mörner & Penna) APPLICATIONS 3: Long- and short-term hazard assessments (Mörner, Audemard & McCalpin)
The course will end with a general discussion. All participants will get a certificate of their participation in the course.

SCS-07 Salt tectonics
M.P.A. Jackson

Contact: martin.jackson@beg.utexas.edu
10th August, 09.00 - 18.00, Room Jan Mayen 2:1

SCS-10 Numerical modeling in Earth sciences
Daniel W. Schmid, Marcin Dabrowski, Lars H. Rüpke, Boris J.P. Kaus

Contact: d.w.schmid@geo.uio.no
14th August – 8th August, 09.00 - 18.00, Blindern Campus, University of Oslo

Numerical models are becoming progressively more important in the quantitative analysis of problems in Earth science. Commonly used “black box” models do not allow for an in depth insight in how the problems are solved. We therefore offer this short course where we develop numerical models from scratch. The programming language will be MATLAB and the numerical method used the finite difference method. It is recommended (but not necessary) that the participants familiarize themselves before the course with MATLAB, linear algebra, and partial differential equations. We will develop models for diffusion in one, two, and three dimensions and also learn how to solve deformation (Stokes flow) problems. Finally, these codes will be combined to study simple models of mantle convection and development of shear zones.

Location: Blindern Campus, University of Oslo.

SCS-11 ExxonMobil Play assessment methodology-Turning regional geologic interpretations into a hydrocarbon resource assessment
Kenneth C. Hood

Contact: richard.sinding-larsen@ntnu.no
13th and 14th August, 08.30 - 17.30, Room Nordland (13th August), Room Bunkerud (14th August), €100 (students: €50)

This two-day short course covers ExxonMobil’s integrated play assessment concepts and methodologies. Our assessment process allows for projection of undiscovered hydrocarbon resource potential, taking into account both shared regional controls and local, prospect-specific complexities.
A key focus of the short course is how to explicitly couple assessment inputs and results to fundamental geologic interpretations for geologic plays in different stages of exploration maturity. Topics include alternative methods for estimating number, sizes, and hydrocarbon types of future discoveries, with consideration given to strengths and weaknesses of each approach and how to tailor the approach based on available data. The short course also illustrates how GIS can be used to facilitate the work processes, particularly in maintaining linkages between the underlying geologic interpretations and the assessment results. GIS also plays a critical role in building assessment inputs and using assessment results to identifying favorable areas within individual plays or across multiple plays. A variety of displays, such as risk profiles and key risk maps, provide a means to extract critical insights from assessment results. Although primarily focused on conventional hydrocarbon accumulations, some consideration is also given to assessing unconventional plays. The short course is designed for geoscientists performing play assessments, geoscientists providing regional geologic maps and other inputs for play assessment, and managers or others wanting to understand and utilize play assessment results.

Instructor: Kenneth C. Hood, ExxonMobil Exploration Company.

Who Should Attend: Exploration geoscientists and managers interested in conducting or understanding estimates of undiscovered hydrocarbon potential for plays or basins.

The fee covers participation, a copy of Course Notes and refreshments.
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Field Trips

One-Day Excursions

Congress participants are invited to take part in the following one-day excursions.

Tickets may be purchased from the Registration desk on a first-come first-served basis, as long as places remain available.

No. 25 (a). The Palaeozoic geology of the Oslo Region - outer Oslo Fjord

Sponsored by Det norske
Leaders: Bjørn T. Larsen, bjt-lar@online.no, Det norske, Snorre Olaussen, Eni Norge, Norway
Start/end: Oslo/Oslo, Norway
Duration: 1 day
Time: 8th August
Price per participant: €145
Max number of participants: 25

No. 25 (b). The Palaeozoic geology of the Oslo Region - inner Oslo Fjord

Sponsored by Det norske
Leaders: Bjørn T. Larsen, bjt-lar@online.no, Det norske, Snorre Olaussen, Eni Norge, Norway
Start/end: Oslo/Oslo, Norway
Duration: 1 day
Time: 12th August
Price per participant: €95
Max number of participants: 50

Excursion No. 25 consists of two separate days of excursion by boat in the Oslo Fjord: One day (No. 25 (a)) in the first part of the Congress (8th August) in the outer parts of the Oslo Fjord; and one day (No. 25 (b)) in the last part of the Congress (12th August) in the inner parts of the fjord.

Excursion No. 25 (a) will visit outcrops on islands in the outer parts of the Oslo Fjord, illustrating the development of the Carboniferous - Permian Oslo Rift, while Excursion No. 25 (b) will concentrate on the tectonics and Lower Palaeozoic sediments of the inner Oslo Fjord.

No. 57. Geothermal energy and energy storage

Leaders: Kirsti Midttomme
kirsti.midttomme@ngu.no,
Geological Survey of Norway, Trondheim, Norway
Start/end: Congress Centre, Lillestrøm
Duration: 1 day
Time: 10th August
Max number of participants: 35
Price per participant: €70

The Nordic countries are among the worlds leading countries of direct use of geothermal energy. Both Iceland and Sweden are ranked on the top five list of geothermal direct utilization worldwide. Since Sweden and Norway are part of the Baltic Shield with heat flow density below continental average, ground-source heat pumps (GSHP) are used to provide heating, cooling and domestic hot water for private and commercial buildings. Some large GSHP installations are in operation in the Oslo area. We will visit two of them, Ahus hospital, where 230 boreholes in rock provide heat and cold to the new hospital and Oslo airport Gardermoen where heat and cold are extracted from the groundwater. In addition we will stop at a drilling site to show the “Scandinavian way” to drill an energy well and demonstrate a Thermal Response Test (TRT), which allows in-situ determination of ground thermal properties. The last stop will be at Rikshospitalet in Oslo. In 1999, an attempt was made to develop a Hot Dry Rock (HDR) pilot plant with a closed loop system to 5000 m depth. The project was abandoned, but the results obtained hold some promise as to the future development of HDR systems in Norway.

No. 58. Radon - geology excursion

Leaders: For preliminary registration contact britt-marie.ek@sgu.se
Start/end: Oslo/Oslo, Norway
Duration: 1 day
Time: 15th August
Max number of participants: 40
Price per participant: Free of charge (Sponsored by the Norwegian Radiation Protection Authority)

A one-day radon - geology excursion will be held in the Oslo area the 15th of August for participants of the 9th International Workshop on Geological Aspects of Radon Risk Mapping (EGG-03) and the workshop of Radon Risk Mapping.

Few parts in the world can show such a varying radon affected geology and the area is well mapped and numerous indoor radon measurements has been carried out in single family homes. In many homes very high radon concentrations have been measured. In the Oslo area radon problems are connected to Precambrian uranium rich granites, 900 my old, and the Upper Cambrian alum shale, on witch large parts of central Oslo is built, and the very permeable fluvial glacial and talus material.

During the excursion we will visit areas with alum shale as well as granites, buildings in these areas and different methods for radon remediation. The excursion is organized through the local organizing committee, and free of charge since it is covered by the Norwegian Radiation Protection Authority. The number of participants will be limited to 40. During the excursion lunch will be served.

No. 101. Neoproterozoic Moelv Tillite and the Hedmark Basin, the Mjøsa Area, South Norway

Leader: Prof. Johan Petter Nystuen
(j.p.nystuen@geo.uio.no), University of Oslo
Start/end: Oslo/Oslo
Duration: 1 day
Time: 10th August
Max number of participants: 30
Price per participant: €70

Description: The northern part of Lake Mjøsa, the largest Lake of Norway situated 100 km north of Oslo, is the type area for the Neoproterozoic Hedmark Group. This more than 5000m thick succession is dominated by feldspathic sandstones (“sparagmites”) and contains a prominent glacial formation, the Moelv Tillite. The tillite was formed
during the Varangerian Glaciation and correlates to the tillite formations in the Varanger Region in Eastern Finnmark of northern Norway. The Hedmark Group was deposited during the rift to post-rift stage of the Hedmark Basin at the northwestern margin of continent Baltica, from about 750 Ma to the onset of the Cambrian, in response to break up of Rodinia. The basin succession, together with several other similar basin infills, was dislocated at least 140 kilometer from NW to its present position during the Caledonian Orogeny in the late Silurian-early Devonian.

During the one-day excursion, emphasis will be given to the Varangerian tillite in the Moelv area and to localities showing outcrops of different syn-rift turbidite fan deposits in the Brottn, Biskopåsen and Ring formations, carbonate platform facies and black shales in the Biri Formation and the post-rift fluvial to shallow-marine lower Cambrian Vangså Formation. The excursion will give an overview of the stratigraphy of the successions the Moelv Tillite lies in and will allow assessment of its mode of glacial sedimentation.

The landscape of the Lake Mjøsa area is highly varied in accordance to a geological history from Precambrian to Present and agriculture dating back to early settlements in the Bronze Age with historical peaks in the Viking period in the Medieval Age. Landscape development, history and modern life of the region will be commented during the excursion.

No. 102. Gardnos Impact Structure
Leaders: Elin Kalleson (elin.kalleson@nhm.uio.no), Tom Ø.Jahren, Henning Dypvik, University of Oslo
Start/end: Oslo/Oslo
Duration: 1 day
Time: 10th August
Max number of participants: 47
Price per participant: €70

No. 103. Urban geochemistry in Oslo
Leader: Rolf Tore Ottesen, Geological Survey of Norway, Norway (rolf.ottesen@ngu.no), Kaj Lax, Geological Survey of Sweden, Sweden, Timo Tarvainen, Geological Survey of Finland, Finland
Start/end: Oslo/Oslo
Duration: 1/2 day (morning)
Time: 7th August
Max number of participants: 30
Price per participant: €25

The excursion will be arranged in relation to the Symposium EGC-03, which is to be held on the previous day (6 August) and convened by the Geological Surveys of Finland, Norway and Sweden. The half-day excursion will focus on urban geochemistry in Oslo demonstrating the results of a three year successful project carried out by the Geological Survey of Norway in co-operation with Oslo city. Geochemical methods have been applied inter alia in day care centres, and a new administration system for polluted soil in urban environment has been developed. Experts from the city of Oslo will participate and present the results of the project.

No. 104. Classical fossil localities in the Oslo area
Leaders: David Bruton (d.l.bruton@nhm.uio.no), J. Fredrik Bockelie, University of Oslo
Start/end: Oslo/Oslo, Norway
Time: 10th August
Duration: 1 day
Max number of participants: 20
Price per participant: €70

This is a one day, mid-Congress excursion to a selection of classical fossil localities and around Oslo. Time will be allowed to discuss occurrence, preservation, sedimentation, palaeoecology and stratigraphy. The excursion will be carried out using a mini bus to and from the following localities:
Huk Bygdøy (Ideal vantage point for pointing out the general geology of the Oslo area and to see the Arenig-Llanvirn boundary in a shale/limestone succession.
Kavoya, Bærum (Upper Ordovician sedimentary succession with channel infills of exotic blocks containing corals, brachiopods and algae from underlying beds in the immediate neighbourhood.

Holmensjøeret, Asker (Upper Ordovician rocks containing similar fossils seen in the exotic blocks at Kalvoya)

Spirodden, Asker (Classical Silurian locality described by Professor Kær (“Das Obersilur”—) with excellent coral and brachiopod assemblages in situ.

Vollen, Asker Excellent flat-lying section of classical Middle Ordovician fossiliferous limestone and shales. Paleoecology and discussion of origin of nodular limestones. Classic bentonite with North American connections.

Bjerkåsholmen, Asker Tremadoc-Arenig limestones and shales with excellent graptolites in large number. Good collecting spot.

Slemmestad, Røyken Unconformity Middle Cambrian on underlying basement with basal conglomerate. Classical Brogger locality foragnost trilobites.

Naerønes, Røyken Once a high potential international Cambrian/Ordovician boundary reference section with fossiliferous Cambrian/Ordovician alum shale.

Other pre- and post-Congress Excursions
Excursions of variable length before and after the Congress are being arranged throughout Norden, including the Faroe Islands, Greenland and Svalbard, as well as in Russia and Ukraine. Excursion guides are available to download from www.33igc.org.

No. 3. Jameson Land, East Greenland, a petroleum geology analogue for the Norwegian continental shelf. Sponsored by Dong Energy

No. 5. The geology of Iceland

No. 6. Faroe Islands - The volcanic and sedimentary evolution of the Palaeogene Faroe Islands Basalt Group

No. 7. Faroe Islands - The oceanic glaciation of the Faroe Islands

No. 9. Mesozoic geology of Southern Scandinavia

No. 10. Palaeozoic impact craters

No. 11. Palaeoseismicity and Uplift of Sweden

The 33rd International Geological Congress, Oslo 2008

No. 15. Metallogeny and tectonic evolution of the Northern Fennoscandian Shield. Sponsored by Agnico Eagle Finland

No. 16. 100 years of migmatite - In Sederholm's footsteps. Sponsored by Agnico Eagle Finland

No. 18. Karelion Craton transect: Precambrian greenstone belts, ophiolites and eclogites. Sponsored by Agnico Eagle Finland

No. 21. Gea Norvegica, UNESCO European Geopark

No. 23. The Carboniferous-Permian Oslo Rift

No. 24. From Epicontinental Sea to Foreland Basin - the Early Palaeozoic of the Oslo Region

No. 26. Magma Geopark - The Rogaland Anorthosite Province

No. 28. Structural geology and tectonic evolution of the Sognefjord transect, Caledonian Orogen

No. 29. Caledonian infrastructure in the Fjord-region of Western Norway; focus on formation and exhumation of eclogites, late- to post-orogenic tectonic processes and basin formation

No. 31. UNESCO FJORDS: From Nærøyfjord to Geirangerfjord: Surface processes and landscape development in the fjord area of western Norway

No. 34. A Tectono-stratigraphic Transect across the Scandinavian Caledonides in the Mid-Norden Region

No. 39. Karst and landform development of North Norway

No. 40. Raised beaches, falling-stage deltas, river terraces and postglacial fjord-valley fill, arctic Norway

No. 42. Neoproterozoic Glacial and Associated Facies in the Varanger (Ex-Type) Area

No. 44. Svalbard (Spitsbergen) Round Trip - Post Caledonian Tectonostratigraphic and Paleogeographic Development. Sponsored by StatoilHydro ASA

No. 47. Khibina and Lovozero alkaline massifs: geology and unique mineralization

No. 48. The Cu-Ni-PGE and Cr deposits of the Monchegorsk area, Kola Peninsula, Russia

No. 51. The Sveconorwegian Orogen of southern Scandinavia: P-T-t evolution of polymetamorphic high-grade domains

No. 52. Geology, Radiological Age, and Metallogeny of Greenstone Complexes in the Ukrainian Shield

No. 56. Bjornoya, an Upper Palaeozoic-Triassic window into the Barents Shelf

Special Arctic Field Courses

The University Centre in Svalbard (UNIS) is offering the following field courses prior to the Congress:

- **IPY International University Course (10 ECTS)**

  UNIS 1 High Arctic Permafrost Landscape Dynamics (3 weeks before the IGC)

- **Master/Ph.D short courses (10 ECTS)**

  AG-321 Arctic terrestrial Quaternary stratigraphy excursion (2-3 weeks before the IGC).

- **AG-323 Sequence stratigraphy – a tool for basin analysis (2-3 weeks after the IGC)

- **AG-328 Sedimentary facies analysis from processes to system tracts (3 weeks before IGС)**

- **AG-329 Glacial landforms and sediments (3 weeks after the IGС)**

- **IPY special IGС 4 day short course**

UNIS 2 Sustainable geological development of the high arctic Longyearbyen society in Svalbard; geohazards, geology, technology and mining.
Store Norske has been a coal producer on the arctic island of Spitsbergen for more than 90 years. Today we are running two underground coal mines at 78° North with an annual production rate of more than 3 million tons. That makes us not only the northernmost coal company in the world but also one of the most effective.

To ensure our activity in the future we are today one of the leading explorers in the European arctic: for coal on the island of Spitsbergen and for mineral resources in the arctic mainland of Norway.

All our activities are based on respect for humans and nature.

With our activity, we are setting standards for the future of arctic mining and exploration.

For more information visit our stand at GeoExpo 2008 or www.snsk.no
Themes of the Day

Room: Plenum Hall

“Themes of the Day” is a new addition to the IGC, whereby we aim to give all participants a broad overview what is happening in major earth science themes. As a major contribution to the International Year of Planet Earth (IYPE), the 33rd International Geological Congress has as one of its main goals, to demonstrate the enormous significance earth sciences have for a sustainable society. In order to do this, seven major themes have been chosen to receive particular focus during the Congress. A separate lecture hall has been dedicated to this, and the symposia will run for full days beginning with Thursday 7th August and end with a half day on Thursday 14th August. The days are split between a morning session focusing on the scientific aspects of the theme, and an afternoon session in which implications for society receive the main focus. During the two-hour lunch break, a 45 minute key-note “Statoil-Hydro Lecture” is given on a subject of broad interest related to the Theme of the Day. Each day ends with a one-hour panel debate and a press conference follows. The lectures will be streamed live on the internet and journalists will be invited to attend the symposia.

In addition to the seven Themes of the Day, a one-hour session on “Global Geology”, which includes the official launch of the OneGeology project is held on the opening day, 6th August, immediately before the opening ceremony.

The seven Themes of the Day are:

- Early life, evolution and biodiversity
- Climate change - past, present, future: How much is anthropogenic?
- Geohazards: Can society cope?
- Water, Human health, and the environment.
- Mineral resources in a fast growing global economy: What are the limits?
- The energy race: What will be the future energy mix?
- Earth and beyond - a cosmic perspective

More than 80 lectures are given by internationally leading experts, industry leaders and important governmental representatives. Abstracts and information about the speakers are found on the website. The seven Statoil-Hydro keynote lectures are:

7th August, 13.00:
The fossil record since Darwin: what do we know and what remains to be discovered?
Prof. Richard Fortey, Natural History Museum (UK)

8th August, 13.00:
Links between late Cenozoic palaeoclimates and human history.
Prof. Gerald Haug, ETH, Zürich (Switzerland)

9th August, 13.00:
Reducing the risks associated with natural hazards.
Prof. Herbert H. Einstein, MIT (USA)

11th August, 13.00:
A changing world: Will there be enough water for all, including the ecosystem?
Prof. Ghislain de Marsily, University of Paris VI, (France)

12th August, 13.00:
The exhaustion of mineral resources - a truism or a state of mind?
Prof. Neil Williams, Geoscience Australia.

13th August, 13.00:
The future energy mix – probabilities and policies.
Sir Mark Moody-Stuart, Anglo American (UK)

14th August, 12.00:
Water on Mars: Past and present.
Prof. Maria Zuber, MIT (USA)

A Congress cannot solve the many major problems which the world faces, but it does provide a forum for exposing them and providing recommendations for their solutions. We therefore hope for good attendance and lively discussions during these seven days.

Wednesday, 6th August

Global Geology

Convener: Arne Bjørllykke
Geological Survey of Norway (Norway)

The importance of Earth Science to address global challenges increases, and new organisations have been established. The International Year of Planet Earth and OneGeology are examples of such organisations, which are working for dissemination of information and for the increased visibility of Earth Science. Traditionally we think about the UN and its organisations as the most important bodies for this. There is, however, an increasing commercial marked for geoscientific knowledge through internet based companies, such as Google and others.

16.00 – 16.30 Global Geology: introspection and perspectives.
Eduardo de Mulder International Year of Planet Earth, IYPE (The Netherlands)

16.30 – 17.00 Formal launch of the OneGeology Project.

A 21st century map to change the world? Simon Winchester British Geological Survey, BGS (UK)

Thursday, 7th August 2008

Early life, evolution and biodiversity

Convener: Stefan Bengtson
Swedish Museum of Natural History (Sweden).

The symposium assesses important steps in the evolution of life and biodiversity on Earth and what we do know from the fossil record, 150 years after Darwin’s “The Origin of Species”. Darwin was a naturalist and covered many fields. The importance of combining different natural sciences today is demonstrated in presentations on management and mapping of marine resources, as well as the deep biosphere, where a significant amount of the Earth’s biomass is present.

08.30 – 08.33 Introduction Stefan Bengtson

08.33 – 09.00 The establishment of life on Earth Minik T. Rosing
Copenhagen University (Denmark)

09.00 – 09.30 The great divide: Life on Earth before and after the Ediacaran transition Nicholas J. Butterfield
University of Cambridge (UK)

09.30 – 10.00 The evolution of reefs Rachel Wood
University of Edinburgh (UK)
change occurs causes much concern. The symposium looks at the palaeoclimatic records, and assesses various climate forcing factors, asking how much of the total change is anthropogenic. As the energy industry is one of the main CO₂ emitters, Carbon capture and storage is an important issue, treated in the symposium. The reliability of climate predictions is treated, as are impacts of the present change, and the need for action to reduce the implications.

**08.30 - 08.35 Introduction Jørn Thiede**

08.35 - 09.00 Paleoclimate: The deep and modern time perspective Eystein Jansen, Bjerknes Centre for Climate Research, University of Bergen (Norway)

09.00 - 09.30 Cenozoic paleoclimates: Greenhouse to icehouse Peter Barrett University of Wellington (Australia)

09.30 - 10.00 Climate and global biogeochemical cycles in the ice core paleoperspective Hubertus Fischer AWI (Germany)

10.00 - 10.30 Coffee

10.30 - 11.00 Ocean-atmosphere interaction and climate change from an Arctic perspective Peter Schlosser Lamont-Doherty Earth Observatory (USA)

11.00 - 11.30 Solar and climate variability: Past, present, and future. Willie Wie-Hock Soon Harvard - Smithsonian Center for Astrophysics (USA)

11.30 - 12.00 Cosmoclimatology: The influence of Cosmic rays on Climate Henrik Svensmark Danish National Space Center (Denmark)

12.00 - 13.00 Lunch sponsored by Saudi Aramco

13.00 - 13.45 (StatoilHydro Lecture) Links between late Cenozoic paleoclimates and Human history Gerald Haug ETH, Zürich (Switzerland)

14.00 - 14.30 How reliable are climate predictions? Lennart Bengtsson Max Planck Institute for Meteorology, (Germany); University of Reading (UK)

14.30 - 15.00 Climate concerns: Carbon capture and storage Olav Kaarstad Statoil (Norway)

15.00 - 15.30 Global Change Science in China: Past, Present and Future Xiaoping Yang Institute of Geology and Geophysics, Chinese Academy of Sciences (China)

15.30 - 16.00 Coffee

16.00 - 16.30 Arctic Climate: Present and future perspective Ola M. Johannessen Nansen Centre for Climate Research (Norway)

16.30 - 17.00 Climate Science and the need for action Connie Hedegaard Danish Minister of Climate and Energy, (Denmark)

17.00 - 18.00 Panel debate

18.15 Press Conference

**Saturday, 9th August 2008**

**Geohazards: can society cope?**

Sponsored by NGI

Convener: Suzanne Lacasse Norwegian Geotechnical Institute, NGI, (Norway)

Landslides, sea level rise, subsidence in deltas, violent storms, earthquakes, floods and tsunamis hit our communities, causing loss of life and huge damage.

Can we protect these communities, should we build in areas threatened by natural hazards? Can we develop effective warning and emergency preparedness systems?

**08.30 – 08.33 Introduction Suzanne Lacasse**

08.33 – 09.00 Rock Slide Hazards: Detection, Assessment and Warning D. Jean Hutchinson Queen's University (Canada)

09.00 – 09.30 Earthquake Vulnerability: An Engineer's Perspective with a Difference Tiziana Rossetto University College London (UK)

09.30 – 10.00 Tsunamis Costas Synolakis University of Southern California Los Angeles (USA)

10.00 – 10.30 Coffee

10.30 – 11.00 Volcanoes and their Impact on Human Society Stephen Sparks University of Bristol (UK)

11.00 – 11.30 Geological Considerations in Quantitative Offshore Geohazards Risk Assessment Philippe Jeanjean BP Corporation (USA)

11.30 – 12.00 Early Warning Systems for Landslides Farrokh
Nadim University of Oslo, International Centre for Geohazards (ICG) and NGI (Norway)
12.00-13.00 Lunch
13.00 – 13.45 (StatoilHydro Lecture) Reducing the Risks Associated with Natural Hazards
Herbert H. Einstein, K. Karam, & R. L. Sousa. MIT (USA)
14.00 – 14.30 Global Approach to Slope Safety in Hong Kong
Raymond Chan CEO Civil Engineering and development Department (Hong Kong)
14.30 – 14.45 Global Patterns of Disaster Risk Robert S. Chen The Earth Institute, Columbia University (USA)
14.45 – 15.00 Hazard and Risk Mapping for Landslides Kjell Karlsrud International Centre for Geohazards and NGI (Norway)
15.00 – 15.15 The Ms 8.0 Wenchuan Earthquake of May 12th, 2008, Sichuan, China Shuwen Dong and Zhang Yueqiao Chinese Academy of Geological Sciences, Beijing, China
15.15 – 15.30 Social Vulnerability and Resilience to Geohazards Carsten Felgentreff University Osnabrück (Germany)
15.30 – 16.00 Coffee
16.00 – 16.30 Geophysical Risks and Society Tom Beer CSIRO (Australia)
16.30 – 17.00 Geo-Risks: Global Trends, Losses and Risk Management Anselm Smolka Geo Risks Research, Munich Reinsurance Company (Germany)
17.00 – 17.15 Geohazards in Iceland Thorunn Sveinbjarnardottir Icelandic Minister for the Environment, Iceland
17.15 – 17.30 Break
17.30 – 18.30 Panel debate: Policy-Making for Prevention and Mitigation of risks associated with geohazards
18.30 Press conference

Monday, 11th August 2008

Water, Human health and the Environment
Convener: Olle Selinus Geological Survey of Sweden, SGU, (Sweden)
People’s lives depend on water, and the demand for clean water increases in line with population growth. Groundwater is an important and traditionally clean source for water, but urbanisation, industrialisation, and changes in land use cause problems and challenges related to pollution, as well as political issues since ground water reservoirs do not stop at political boundaries. The symposium covers many of these issues, presented by speakers from a variety of fields.

08.30 Introduction: Olle Selinus
08.30 - 09.00 Groundwater - principles and perspectives Bo Olofsson Swedish Royal University of Technology, KTH, (Sweden)
09.00 - 09.30 Cultural evolution and water-borne exposure pathways Philip Weinstein School of Population Health, University of Western Australia (Australia)
09.30 - 10.00 Health effects of arsenic in drinking water Jose Centeno Armed Forces Institute of Pathology, Washington DC (USA)
10.00 - 10.30 Coffee
10.30 - 11.00 Fluorine: water-rock-human interactions - a global overview Mike Edmunds Oxford University Centre for Water Research (UK)
11.00 - 11.30 Radon and health risks of radon in groundwater Don Appleton, Jon Miles BGS and UK Health Protection Agency, (UK)
11.30 - 12.00 Natural organic pollutants in groundwater: potential health implications Robert B Finkelman, William H Orem University of Texas, Dallas (USA)
12.00 - 13.00 Lunch
13.00 - 13.45 (StatoilHydro Lecture) A changing World: Will there be enough water for all, including the ecosystem? Ghislain de Marsily University Paris VI, (France)
14.00 - 14.30 Climate change adaptation and water - examples of facing multiple challenges from sea level rise to water scarcity from a planning perspective Philippe Schmidt-Thome Geological Survey of Finland (Finland)
14.30 - 15.00 Risk management of groundwater contamination in the context of water safety plans Roger Aertgeerts Regional Adviser Water and Sanitation, WHO Regional Office for Europe (Switzerland)
15.00 - 15.30 Why is groundwater neglected in water management discussions? Anders Berntell Stockholm International Water Institute SIWI, Stockholm (Sweden)
15.30 - 16.00 Coffee
16.00 - 16.30 Global changes, an accelerating water cycle, adaptation strategies: Can we cope? Andras Szollosi-Nagy UNESCO, Paris (France)
16.30 - 17.00 Ethiopian groundwater resource management Ašfaw Dingamo Ethiopian Minister for Water Resources (Ethiopia)
17.15 - 18.30 Panel debate
18.30 Press conference

Tuesday, 12th August 2008

Mineral resources in a fast growing global economy - are there any natural limits?
Sponsored by Boliden Mineral AB
Conveners: Pär Weihe University of Luleå (Sweden), Pierre Heeroma Boliden AB (Sweden)
The world’s mineral resources have been said to be a limit to growth. At present, metal prices are high and new resources of minerals are explored and exploited, using new technologies. Estimates of reserves always seem to be too low. The symposium looks closely at some of mineral resources in particular and assesses the challenges facing the mining industry and therefore important parts of society, in the years to come. China, as one of the largest and fastest growing economies, presents its views on the resource situation.

08.30 - 08.35 Introduction Pierre Heeroma/Pär Weihe
08.35 - 09.00 Advances in genetic studies of base metal deposits Ross Large, CODES (Australia)
09.00 - 09.30 Tomorrow’s gold resources: Where will we find them? Rich Goldfarb U.S.Geological Survey (USA)
09.30 - 10.00 Rare earth elements: a new scope of mining for saving energy and environment Yasushi Watanabe AIST, (Japan)
10.00 - 10.30 Uranium: The World’s Energy Mineral James McIntyre, Cameco Corp., (Canada)
10.30 - 11.00 Coffee
11.00 - 11.30 Ocean floor mining Steve Scott, University of Toronto (Canada)


12.00 - 13.00 Lunch sponsored by Intex Resources

13.00 - 13.45 (StatoilHydro Lecture) The exhaustion of mineral resources - a truism or a state of mind? Neil Williams, Geoscience Australia, (Australia)

14.00 - 14.30 The Geology and Mineral Resources of China Meng Xianlai, The Geological Society of China (China)

14.30 - 15.00 Metal markets: A new corporate landscape emerging Magnus Ericsson, RMG, (Sweden)

15.00 - 15.30 Supply of mineral resources: Mining in the European context Lennart Evrell New Boliden AB, (Sweden)

15.30 - 16.00 Coffee

16.00 - 16.30 Challenges of the European Mining Industry in the Years to Come Corina Hebestreit, Euromines (Belgium)

16.30 - 17.00 Commission Raw Materials Initiative Hans Sierd Pietersen, European Union, GD Enterprise, Brussels (Belgium)

17.00 - 18.00 Panel Debate

18:00 Press conference

**Wednesday, 13th August 2008**

**The energy race: what will be the future energy mix?**

Sponsored by Norske Shell

Conveners: Stig Bergseth Lotos Upstream (Norway), Kjell Arne Oppeboen, Anthony M. Spencer StatoilHydro ASA (Norway)

The energy situation is a critical question in our modern society. Our dependency on fossil fuels also raises serious climate concerns. The symposium takes up the present situation regarding various energy sources, their potential, their impact, and their economy. Several important questions are raised on how the increasing energy demand can be met, and at what price.

08.30 - 08.35 Introduction Stig Bergseth / Kjell Arne Oppeboen

08.35 - 09.00 Conventional oil and gas: the global endowment Ken Chew IHS (Scotland)

09.00 - 09.30 Unconventional oil: ‘tomorrow’s oil’ today Robert Skinner Statoil-Hydro, Canada, (Canada)

09.30 - 10.00 Unconventional gas: tight gas sands, shale gas, coal bed gas, and natural gas hydrates Brenda Pierce U. S. Geological Survey (USA)

10.00 - 10.30 Coffee

10.30 - 11.00 Hydrocarbon exploration in Europe: can we meet the energy demand? Rien Herber Shell, (The Netherlands)

11.00 - 11.30 Coal: an energy source for future world needs? Thomas Thielemann RWE Power (Germany)

11.30 - 12.00 Geothermal energy and the energy race Gudmundur Fridleifsson, Hitaveita Sudurnesja hf (Iceland)

12.00 - 13.00 Lunch sponsored by Maersk Oil

13.00 - 13.45 (StatoilHydro Lecture) The future energy mix - probabilities and policies Mark Moody-Stuart, Anglo American (UK)

14.00 - 14.30 Nuclear Energy Options Sven Kullander, Royal Swedish Academy of Sciences (Sweden)

14.30 - 15.00 Renewable energy, innovation and peak oil Jeremy Leggett Solarcentury, (UK)

15.00 - 15.30 The economic and environmental credentials of biofuels and fossil fuels Marian Radetzki Luleå University, (Sweden)

15.30 - 16.00 Coffee

16.00 - 16.30 Energy return on investment and our economic future Charles Hall State University of New York, (USA)

16.30 - 17.00 Carbon capture and storage: Political, technological and economical constraints. Elisabeth Heggeland Tørrstad, DNV (Norway)

17.00 - 17.30 A sustainable energy future Liv Monica Bargem Stubholt, State Secretary, Norwegian Ministry of Petroleum and Energy (Norway)

17.30 - 18.30 Panel debate

**Thursday, 14th August 2008**

**Earth and Beyond - A cosmic perspective**

Convener: Birger Schmitz Lund University (Sweden)

Some of the world’s most renowned scientists highlight recent developments in planetary research, providing a new understanding of our place in the universe. Topics include the search for Earth-like planets in other solar systems, the role of asteroids and comets for the evolution of life on Earth, water on Mars and its possible significance for extraterrestrial life, the meteoritic perspective on the condensation of the solar nebula, volcanism and impact cratering in our solar system, and the ultimate question: How might Earth’s habitability come to an end, making it no longer Earth-like?

Geoscience Programme

08.30 – 08.33 Introduction Birger Schmitz

08.33 – 09.00 From gaseous giants to rocky planets: Search for extrasolar planets Michel Mayor University of Geneva (Switzerland)

09.00 – 09.30 A meteoritic perspective on the formation and early evolution of asteroids and terrestrial planets Thorsten Kleine ETH-Zürich (Switzerland)

09.30 – 10.00 Volcanism in the Solar System Alfréd McEwen University of Arizona (USA)

10.00 – 10.30 Coffee

10.30 – 11.00 Impact cratering on Earth and other planets Christian Koeberl University of Vienna (Austria)

11.00 – 11.30 Asteroids, comets and the evolution of life Walter Alvarez University of California, Berkeley (USA)

11.30 – 12.00 How rare are Earth-like planets - and how might the Earth’s habitability come to an end - making it no longer Earth-like? Peter Ward University of Washington (USA)

12.00 – 12.45 (StatoilHydro Lecture) Water on Mars: Past and present Maria Zuber Massachusetts Institute of Technology (USA)
Geological Information for the Investment

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- Proven deposits of a wide variety of minerals
- Geological mining information of the country
- Mining prospects for public auction
- Highly qualified human resources

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# Symposium Locator

Use this chart to locate the symposia you wish to attend.

### Key:
- ■ = symposia in the first half of the Congress
- □ = symposia in the second half of the Congress
- EM = early morning session
- LM = late morning session
- EA = early afternoon session
- LA = late afternoon session

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The Symposia Programme

**Major Geoscience Programmes**

- International Year of Planet Earth (IYPE) ......................................................... PE
- International Consortium of Geological Surveys (ICOGS) ........................................... IC
- International Science Drilling Programs (IODP, ICDP) .................................................. SD
- Contribution of Geochemistry to the study of the Planet (IAGC) ................................. GC

**Interdisciplinary Symposia (Topical)**

- Changing Climates .......................................................................................................... CC
- CO₂ Capture, Storage and Usage ........................................................................................ CO
- Earth System Management ............................................................................................... EM
- Gas Hydrates ..................................................................................................................... GA
- Geodynamics and Plate Motions ....................................................................................... GD
- Geohazards ........................................................................................................................ GH
- Geoscience and Nuclear Waste Disposal ........................................................................... NW
- Mathematical Geology ...................................................................................................... MA
- Medical Geology ............................................................................................................... MG
- Ultra-High Pressure Metamorphism .................................................................................. UH

**Regional Symposia (Special)**

- Arctic, Antarctic and Bi-polar relationships (International Polar Year) ............................ AA
- Africa .................................................................................................................................. AF
- Americas ............................................................................................................................ AM
- Asia ...................................................................................................................................... AS
- Europe .................................................................................................................................. EU
- Oceania ............................................................................................................................... OC
- World Maps ........................................................................................................................ WM

**Disciplinary Symposia (General)**

- Biogeosciences .................................................................................................................. BG
- Climate, Glaciology .............................................................................................................. CG
- Earth Interior, Exploration Geophysics ................................................................................ EI
- Environmental Geoscience .................................................................................................. EG
- Geo-energy ........................................................................................................................... GE
- Geomorphology, Soil Science ............................................................................................. GS
- Geotechnology, Remote Sensing ........................................................................................ GT
- Historical Geology, Paleontology ....................................................................................... HP
- Hydrogeology ....................................................................................................................... HY
- Information, Education, Ethics, History ................................................................................ IE
- Mineralogy, Petrology, Isotope Geology, Volcanology ......................................................... MP
- Mineral Resources ............................................................................................................... MR
- Ocean Sciences .................................................................................................................... OS
- Planetary Sciences, Impact Structures ................................................................................ PI
- Sedimentology ...................................................................................................................... SE
- Structural Geology, Tectonics ............................................................................................... ST
SYMPOSIA PROGRAMME IN ALPHABETICAL ORDER

Code
AA  Arctic, Antarctic and Bi-polar relationships (RS)
AF  Africa (RS)
AM  Americas (RS)
AS  Asia (RS)
BG  Biogeosciences (DS)
CC  Changing Climates (IS)
CG  Climate, Glaciology (DS)
CO  CO2 Capture, Storage and Usage (IS)
EG  Environmental Geoscience (DS)
EI  Earth Interior, Exploration Geophysics (DS)
EM  Earth System Management (IS)
EU  Europe (RS)
GA  Gas Hydrates (IS)
GC  Contribution of Geochemistry to the study of the Planet (IAGC) (MGP)
GD  Geodynamics and Plate Motions (IS)
GE  Geo-energy (DS)
GH  Geohazards (IS)
GS  Geomorphology, Soil Science (DS)
GT  Geotechnology, Remote Sensing (DS)
HP  Historical Geology, Paleontology (DS)
HY  Hydrogeology (DS)
IC  International Consortium of Geological Surveys (ICOGS) (MGP)
IE  Information, Education, Ethics, History (DS)
MA  Mathematical Geology (IS)
MG  Medical Geology (IS)
MP  Mineralogy, Petrology, Isotope Geology, Volcanology (DS)
MR  Mineral Resources (DS)
NW  Geoscience and Nuclear Waste Disposal (IS)
OC  Oceania (RS)
OS  Ocean Sciences (DS)
FE  International Year of Planet Earth (IYPE) (MGP)
PI  Planetary Sciences, Impact Structures (DS)
SD  International Science Drilling Programs (IODP, ICDP) (MGP)
SE  Sedimentology (DS)
ST  Structural Geology, Tectonics (DS)
UH  Ultra-High Pressure Metamorphism (IS)
UN  U.N. Convention on the Law of the Sea (UNCLOS) (IS)
WM  World Maps (RS)

Abbreviations:
DS = Disciplinary Symposia (General)
IS = Interdisciplinary Symposia (Topical)
MGP = Major Geoscience Programme
RS = Regional Symposia (Special)

On the pages that follow here, the symposia are identified by their code, followed by the day(s) of presentation:

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Major Geoscience Programmes

INTERNATIONAL YEAR OF PLANET EARTH (IYPE)

Topical symposia related to the IYPE are being coordinated by Ed de Mulder and Edward Derbyshire; most are convened by the theme leaders

PED-01 4  Deep Earth – from crust to core  CONVENERS: Sierd Cloetingh, Jörg F.W. Negendank (ILP)

PEE-01 7  Earth and Health – building a safer environment  CONVENER: Olle Selinus  Invited speakers: Olle Selinus, Bob Finkelman, José Centeno, Jane Plant, Lilly Steines, Edward Derbyshire

PEG-01 4  Groundwater – reservoir for a thirsty planet  CONVENER: Tony Jones

PEH-01 2–3  Hazards – minimizing risk, maximizing awareness  CONVENER: Tom Beer

PEM-01 7  Megacities – our global urban future  CONVENER: Keijo Neonen

PER-01 6  Non-renewable resources – towards their sustainable use  CONVENER: Richard Sinding-Larsen

PES-02 4  The Earth’s Critical Zone and Hydopedology  CONVENERS: Henry Lin, Alexander Gennadiyev, Michael Sommer  Invited speakers: Larry Wilding, Vala Ragnarsdottir, Iain Young, Harry Vereecken, Lis Wollesen de Jonge

INTERNATIONAL CONSORTIUM OF GEOLOGICAL SURVEYS (ICOGS)

ICG-01 6  International Consortium of Geological Surveys  CONVENERS: Jose-Pedro Calvo, Zdenek Venera

INTERNATIONAL SCIENTIFIC DRILLING PROGRAMMES (IODP, ICDP)

SDD-01 4  Scientific drilling  CONVENERS: Manik Talwani, Susan Humphris, Ulrich Harms

CONTRIBUTION OF GEOCHEMISTRY TO THE STUDY OF THE PLANET (IAGC)

GCC-01 7  Contribution of geochemistry to the study of the Planet: Historical perspectives  CONVENERS: Andrew Parker, Andrew Herczej, Russell Harmon

GCC-02 7–8  Contribution of geochemistry to the study of the Planet: Today and tomorrow  CONVENERS: Andrew Parker, Andrew Herczej, Russell Harmon
Interdisciplinary Symposia (Topical)

Symposia of interdisciplinary character covering a wide spectrum of subjects that are of particular Earth Science interest today are included in this category. They range from basic geoscience, to societal issues and managerial and organizational problems.

U.N. CONVENTION ON THE LAW OF THE SEA (UNCLOS)  
The Ultimate Ocean Mapping Challenge – implementation of Part VI of UNCLOS  
Coordinated by Ron Macnab, Harald Brekke, Christian Marcussen, Martin Heinesen

UNC-01 2  The ocean floor and the law of the sea  CONVENERS: Ron Macnab, Harald Brekke
UNC-02 2  Legal and scientific interface issues  CONVENERS: Philip A. Symonds, Martin Heinesen
UNC-03 2  World wide database, data holders, data management  CONVENERS: Walter Roest, Lindsay Parson
UNC-06 3  National delineation projects in progress  CONVENERS: Christian Marcussen, Ruth Jackson

CHANGING CLIMATES  
Coordinated by Jörn Thiede, Ted Moore, Barbara Wohlfarth

CCC-01 1  Climate system: Quo vadis?  CONVENERS: Jörn Thiede, Matti Saarnisto, Thomas Stocker
CCC-03 2  Focused fluid expulsion in hydrothermal and sedimentary systems: Mechanisms and effect on climate and biosphere  CONVENERS: Henrik Svensen, Øyvind Hammer, Aivo Lepland, Sverre Planke
CCC-04 2  Paleoclimate and climate modelling  CONVENERS: Atle Nesje, Eystein Jansen

CO2 CAPTURE, STORAGE AND USAGE (Main sponsor for COC symposia: Det Norske Veritas - DNV)  
COC-02 6  New frontiers of geological sequestration of greenhouse gases  CONVENERS: Toshiyuki Tosa, Ryo Kouda, Zique Xue, Rajesh Paware
COC-03 6–7  Risk and vulnerability assessment related to geological storage of CO2  CONVENERS: Jens Birkholzer, Rainer Helmig, Kaylene Ritter

EARTH SYSTEM MANAGEMENT  
Coordinated by Joy Jacqueline Pereira, Terje Thorsnes

EME-02 8  Role of geoscience in governance for sustainable development and human security  CONVENERS: Joy Jacqueline Pereira, Chen Shick Pei, Lars Persson (IUCS-GEM)
EME-06 7  Geoscience in ocean management  CONVENERS: Terje Thorsnes, H. Gary Greene, Brian J. Todd (MAREANO)
EME-09 6  Risks, Resources, and Record of the Past on the Continental Shelf  CONVENERS: Renée Hetherington, Francesco L. Chiocci, Lindsay Collins, Michel Michaelovitch de Mahiques (IGCP 526)

GAS HYDRATES  
Coordinated by Harsh Gupta, Richard Coffin

GAH-01 7  Gas hydrates in oceanic and permafrost environments – importance for energy, climate and geohazards  CONVENERS: Jürgen Mienert, C. Paull, G. Westbrook, H. Halfdanson
GAH-03 9  Exploration and assessment of gas hydrates  CONVENERS: Kalachand Sain, Harsh Gupta, Richard Coffin

GEODYNAMICS AND PLATE MOTIONS  
Coordinated by Trond Torsvik, Irina Artemieva, Hans Thybo

GDP-01 8  Elevated, passive continental margins: Timing and mechanisms of uplift  CONVENERS: Peter Japsen, Johan M. Bonow, Anthony C. Doré, Jörg Ebbing Invited speakers: John Dewey, Peter R. Cobbold
GDP-02 7  Paleo- to Mesoproterozoic crustal evolution and continental growth  CONVENERS: David Corrigan, Sally Pehrsson, Karl-Ingé Åhäll, Stephen Reddy (IGCP 509)
GDP-03 6  Towards a common reference frame for plate motions and mantle dynamics – a tribute to Kevin Burke  CONVENERS: Bernhard Steinberger, Trond H. Torsvik Invited speakers: Kevin Burke, Giampiero Iaffaldano, Dietmar Mueller, John Tarduno, Pål Wessel
GDP-04 7  Palaeozoic-Mesozoic earth geography: Palaeomagnetic, faunal and facies constraints  CONVENERS: Trond H. Torsvik, L. Robin Cocks, Rob Van der Voo
GDP-07 6  **Coupling lithosphere and mantle processes** CONVENERS: Susanne Buijer, Bernhard Steinberger Invited speakers: Jeroen van Hunen, Scott King, Paul Tackley

GDP-08 8  **Basin subsidence and mantle dynamics** CONVENERS: Magdalena Scheck-Wenderoth, François Roure, Sierd Cloetingh (ILP) Invited speakers: Brian Horsfield, Ritske Huismans

GEOHAZARDS

Coordinated by Farrokh Nadim, Mary Lou Zoback

GHZ-01 2  **Geo-risk in the 21st century** CONVENERS: Peter T. Bobrowsky, David Applegate, John J. Clague, Suzanne Lacasse (GSC, IUGS, INQUA)

GHZ-02 8  **Geohazards and risk studies under global environmental change** CONVENERS: Olav Slaymaker, Christine Emlen-El-Hamman, Thomas Glade, Kalle Kronholm, Kari Sletten (IAG)

GHZ-03 6–7  **Integrated studies of tsunamis and other geohazards in coastal regions** CONVENERS: Lalit P. Chaudhari, Anand G. Bhole, Andrée Blais-Stevens, Marten Geertsema, Afia Akhtar

GHZ-04 2  **Earthquake hazard assessment and geotechnics** CONVENERS: Amir Kaynia, Michele Maugeri

GHZ-05 8  **Remote sensing and GIS technologies for geohazard monitoring** CONVENERS: Moutaz Dalati, Farouk El-Baz, Zaheer Al-Suleimani, Mikhail Mouty, David Stevens, Ahmed El-Hassani, Fares Howari (AGA)

GHZ-06 1  **Landslide risks in fluvial systems** CONVENERS: Nicola Casagli, Margreth Keiler, Oliver Korup, Thomas Glade, Oddvar Kjekstad (ICL, IUCS, UNESCO, IYPE, ICG)

GHZ-07 6  **Integrating geological hazard assessment into urban planning and management** CONVENERS: Brian Marker, Philipp Schmidt-Thome, Mario A. Aurelio, Bhawani Shanker Paiwal (IUGS-GEM)

GHZ-08 1  **Volcano flank instability: Causes, precursors and associated hazards** CONVENERS: Derek Rust, Frederico Pasquare (ILP)

GHZ-10 7  **Mountain risks: From prediction to management and governance** CONVENERS: Jean-Philippe Malet, Giacomo Falorni, Theo Van Asch, Nicola Casagli

GHZ-11 6  **Rock slope movements and early warning of catastrophic failure and related tsunamis** CONVENERS: Lars H. Bliker, Giovanni Crosta, Steve Evans, Reginald Hermanns, Alexander Strom

GHZ-12 9  **Converting geosciences knowledge into action for natural hazard reduction: Lessons from multidisciplinary research** CONVENERS: Roberto F. Page, Fernando Muñoz-Carmona

GHZ-13 3  **Geohazards – a tribute to Kaare Høeg** (sponsored by NGI) CONVENERS: Suzanne Lacasse et al. (NGI)

GEOSCIENCE AND NUCLEAR WASTE DISPOSAL  

Coordinated by Alan Geoffrey Milnes

NWG-01 7  **Geology and disposal of nuclear waste: Global perspectives** CONVENERS: Alan Geoffrey Milnes, Steve Sparks, Leonello Serva, Frantisek Woller

NWG-02 6  **Geology and disposal of nuclear waste: Nordic approach - special aspects of the disposal in crystalline bedrock** CONVENERS: Lars-Olov Ericsson, Lissa Wikström

MATHEMATICAL GEOLOGY  

Coordinated by Richard Sinding-Larsen, Frits Agterberg

MAG-02 3  **Mathematical and statistical modelling of physical and chemical processes in the Earth sciences** CONVENERS: Antonella Buccianti, Raimon Tolosana-Delgado (IAMG)

MAG-03 3  **Uncertainty in spatial prediction modeling: From natural risk to resources** CONVENERS: Andrea Fabbri, Chang-Jo Chung

MAG-04 1  **Scales, scaling, non-linearity and complexity in the geosciences** CONVENERS: Qiuming Cheng, Frits Agterberg (IAMG)

MAG-05 2  **New frontiers of mathematical geology for resources exploration** CONVENERS: Katsuaki Koike, Zhao Pengda, Donald Singer, Ryoichi Kouda (ISME, IAMG)

MEDICAL GEOLOGY

Coordinated by Olle Selinus, Eiviv Steinnes, Anne Kousa

MGH-01 7–8  **Earth and health - medical geology: In memory of Valentin Lukashev** CONVENERS: Olle Selinus, Eiviv Steinnes, Jane Plant, Lucy Hoareau, Ben Mapani, Robert Finkelman, Theo Davis, Catherine Skinner Invited speakers: Geir Sverre Braut, Catherine Skinner
ULTRA-HIGH PRESSURE METAMORPHISM AND DEEP SUBDUCTION

Coordinated by Larissa Dobrzhenetskaya and the ILP-UHP Group

UHP-02 2 Collisional orogeny, ultra-high pressure metamorphism and crustal melting CONVENERS: Yong-Fei Zheng, Kai Ye, Lei Zhang

UHP-03 2–3 Ultra-high pressure metamorphism: Minerals, microstructures and nanoscale observations CONVENERS: Larissa Dobrzhenetskaya, Harry Green, Herman van Roermund (ILP)

UHP-04 3 Ultra-high pressure metamorphism: Mineral reactions, geochemistry, thermobarometry and geochronology CONVENERS: Simon Cuthbert, Alexey Perchuk, Hans-Peter Schertl (ILP)

UHP-05 4 General topics of geology, tectonics and petrology of collisional orogenic belts: Implication to UHP-HP metamorphic rocks CONVENERS: Jingsui Yang, Shah Wali Faryad, Godard Gaston (ILP)

UHP-06 4 Numerical modeling of deep subduction and exhumation of UHPM fragments: Implication to Earth's interior CONVENERS: Taras Gerya, Paul Tackley (ILP)
Regional Symposia (Special)

Special symposia are dedicated to Regional Geology and are organised to include all the continents – Africa, Asia, Europe, North America, South America and Oceania. At the Oslo Congress, there will be a particular focus on the Arctic. The sessions of symposia for the different parts of the world are being prepared; listed below are the coordinators for each of the regions and the symposia.

ARCTIC, ANTARCTIC AND BI-POLAR RELATIONSHIPS (IPY)

Coordinated by David Gee, Jörn Thiede, Anthony Spencer, Art Grantz

AAA-01 1–2 Paleogeographic and tectonic evolution of the Arctic region during the Phanerozoic CONVENERS: Ashton Embry, Atle Mark, Robert Scott, Art Grantz

AAA-04 2 Arctic petroleum provinces (i): Petroleum geoscience of the Barents Sea SiO2-polymorphs (sponsored by Lundin Norway AS) CONVENERS: Erik Henriksen, Ørjan Birkeland, Antonina Stoupakova, Yuri Matveev

AAA-05 7 Arctic petroleum provinces (ii): Petroleum geoscience of Russian Arctic basins CONVENERS: Antonina V. Stoupakova, Alexey E. Kontorovich, Oleg I. Suprunenko

AAA-06 6–7 Arctic petroleum provinces (iii): Petroleum geoscience of the North American and Greenland basins (sponsored by Dong Energy) CONVENERS: Donald L. Gautier, Kai Sørensen, Kirk Osadetz

AAA-07 6 Russian-Norwegian scientific co-operation in the Barents Sea region (sponsored by RWE Dea Norge AS) CONVENERS: Else Ørmaasen, Erik Henriksen, Andrey Morozov, Oleg Petrov

AAA-08 8 Permafrost on a warming planet CONVENERS: Jerry Brown et al. (IPA)

AAA-10 6 Arctic palaeoclimate and its extremes CONVENERS: Martin Jakobsson, Eiliv Larsen, Morten Hald, Nalan Koc


AAN-01 8 Antarctic geodynamic evolution and paleogeography CONVENERS: G. Crikurov, G. Leitchenkov, R.P. Menot (CGMW)

AAN-02 7 Cenozoic Antarctic glacial history CONVENERS: Fabio Florindo, Peter J. Barrett, David M. Harwood

AAB-01 9 Arctic and Antarctic records of deglaciation since the Last Glacial Maximum: Processes, timing and causes CONVENERS: Rob Larter, Dag Ottesen

AAB-02 8 Cenozoic bi-polar connections over millennia CONVENERS: Julie Brigham-Grette, Ross Powell, Tim Naish, Martin Melles, Kate Moran, Ian Backman

AFRICA

Coordinated by S. Félix Toteu, Henrik Stendal

AFR-01 6 Pan-African orogeny in Africa and adjacent regions CONVENERS: Henrik Stendal, Félix Toteu, Yves Deschamps

AFR-02 7 Cenozoic volcanism and evolution of the African lithosphere CONVENERS: Luigi Beccaluva, Marjorie Wilson, Gianluca Bianchini

AFR-03 6 Geology of Africa and development strategies for the mining sectors of African countries CONVENERS: David Ovadia, Sospeter Muhongo, Leif Thorning

AFR-04 7 Geoscience in Africa CONVENERS: S. Félix Toteu, Sospeter Muhongo, Henrik Stendal

AMERICAS

Coordinated by Carlos Oiti Berber, Umberto Cordani

AMS-02 2 New research in Andean tectonic evolution CONVENERS: Andres Folguera, Estanislao Codoy, Cesar J. Vinasco

AMS-03 1 South American metallogeny CONVENERS: Colombo C.C. Tassinari, Eduardo Zappettini

AMS-04 2 (POSTERS ONLY) South American alkaline igneous complexes CONVENERS: Celso de Barros Gomes, Piero Comín-Chiaramonte

AMS-05 2 (POSTERS ONLY) Active tectonics in South America CONVENERS: Claudio Riccomini, Francisco Hilário Rego Bezerra, Franck Audemard

AMS-06 3 Neoproterozoic to early Paleozoic orogenic belts of South America CONVENERS: Marcio M. Pimentel, Carlos W. Rapela, Antonio Carlos Pedroso-Soares Invited speaker: Patricia Wood Dickerson

AMS-07 2 Crustal evolution of the cratonic nuclei of South America CONVENERS: Wilson Teixeira, Roberto Dall’Agnol, Tapani Rämö

ASIA

Coordinated by Oleg Petrov, Harsh Gupta, Zhang Hongren

ASI-01 1–2 Geodynamic evolution of Asia CONVENERS: Ren Jishun, Peng Qiming, Manuel Pubbellier (CGMW)
ASI-02 3–4  Geology and mineral resources of Northern and Central Eurasia CONVENERS: Oleg Petrov, Dong Shuwen
ASI-04 4  Evolution of the Arabian-Nubian Shield and its Orogenies CONVENERS: Ali Al-Mishwat, Mohamed Abdelsalam, Mengist Teklay
ASI-05 4  Tectonics and crustal growth in Central Asia CONVENERS: Boris Nataf’in, Celal Şengör (IGCP 480)
ASI-06 3  Pre-Mesozoic accretionary tectonics in Central Asia CONVENERS: Wenjiao Xiao, Mikhail G. Leonov, Dmitriy V. Alexeev (ILP)

EUROPE

Coordinated by Kai Sorensen, Dan Evans, Michael Kosinski

EUR-01 8  Three billion years of geological history of the Baltic Shield and its shelf CONVENERS: Tamara B. Bayanova, Victor V. Balagansky
EUR-04 2  Tectonic evolution of the lithosphere from European Precambrian Craton to Alpine system on the base of the deep geophysical data CONVENERS: Aleksander Cutcher, Marek Grad, G. Randy Keller
EUR-05 6  Pre-collisional evolution of the Caledonian-Appalachian orogen CONVENERS: Øystein Nordgulen, David Roberts, Aaron Yoshinobu, Carol Frost, Calvin Barnes
EUR-06 6  Collision orogeny in the Caledonian-Appalachian Orogen CONVENERS: Peter Robinson, David Gee, Mark Steltenpohl, Arild Andresen
EUR-07 7  Comparison of the Uralides and Variscides CONVENERS: Andres Perez-Estaun, Philippe Matte, Victor Pushkov, Galina Savelieva
EUR-08 2  The North Atlantic Igneous Province stripped: Origin, magmatic activity, crustal processes and plate kinematics CONVENERS: Morgan Canerød, Sonia Rousse, Walter Roest
EUR-09 6–7  Geology of the Southern Permian Basin area CONVENERS: Hans Doozmabal, Gerhard H. Bachmann, Tim Pharaoh, Tadeusz Peryt
EUR-10 6  The Baltic Sea Basin CONVENERS: Jan Harff, Svante Björck, Peer Hoth (BSG)
EUR-12 2  Cenozoic volcanism in Europe CONVENERS: Anna Ladenberger, Hilary Downes Invited speakers: Marjorie Wilson, Michele Lustrino
EUR-13 7–8  Neogene of NW Europe: Palaeoclimates, tectonics and sedimentation CONVENERS: Erik S. Rasmussen, Torsten Ultescher, Dag Ottesen, Martyn Stokes, Jan Sverre Laberg Invited speakers: Sierd Cloetingh, Erik Lundin
EUR-15 9  Neogene of the Mediterranean: An “ocean laboratory” CONVENERS: Gert J. De Lange, Patrizia Ziveri, John Woodside
EUR-17 4  4-D topography evolution in Europe: Uplift, subsidence and sea level change (TOPOEUROPE) CONVENERS: Sierd Cloetingh, Jörg Negendank (ILP)
EUR-18 7–8  Palaeogeographic and palaeotectonic development of the Mediterranean and Middle East regions CONVENERS: W. Cavazza, L. Jolivet, A. H. F. Robertson

OCEANIA

OC


WORLD MAPS

Coordinated by Jean-Paul Cadet, Philippe Rossi

WMA-02 2  OneGeology.Transparent Earth CONVENERS: Ian Jackson, Harvey Thorleifson, John Broome, Jean-Paul Cadet (CGMW, UNESCO, IUGS, IYPE, ISCGM and ICGOS)
Disciplinary Symposia (General)

The General Symposia will cover all the main Geoscience disciplines (about fifty), which have been coordinated by colleagues who are also convening a “General Contributions” symposium for their discipline. The General Symposia are organized in related groups to allow easy navigation within the program.

### BIOGEOSCIENCES

**BIOGEOSCIENCE**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>CONVENERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>BGB-01 3</td>
<td>General contributions to biogeoscience</td>
<td>Bjarte Hannisdal, Nicola McLoughlin</td>
</tr>
<tr>
<td>BGB-02 4</td>
<td>Geomicrobiology: Low-temperature alteration, mineralization, and microbial interactions</td>
<td>Ingunn H. Thorseth, Crispin Little</td>
</tr>
<tr>
<td>BGB-03 3</td>
<td>Life of the early Earth</td>
<td>Harald Furnes, Maarten de Wit, Minik Rosing</td>
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### CLIMATE, GLACIOLOGY

**CLIMATE CHANGE**

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<tbody>
<tr>
<td>CGC-01 6</td>
<td>General contributions to climate change</td>
<td>Barbara Wohlfarth, Jörn Thiede, Ted Moore</td>
</tr>
<tr>
<td>CGC-04 1–2</td>
<td>Neoproterozoic ice ages: Quo vadis?</td>
<td>CONVENERS: Calen Halverson, Graham Shields, Emmanuelle Arnaud (IGCP 512)</td>
</tr>
<tr>
<td>CGC-05 7</td>
<td>Fennoscandian uplift and global sea level changes</td>
<td>CONVENERS: Nils-Axel Mörner, Willy Fjeldskaar, Lawrence Cathles, Arto Miettinen (IGCP 495)</td>
</tr>
<tr>
<td>CGC-08 4</td>
<td>Reconstruction of past climates based on combinations of microfossil records</td>
<td>CONVENERS: Sheila Hicks, Lena Barnekev</td>
</tr>
<tr>
<td>CGC-09 8</td>
<td>Glacial-interglacial vegetation dynamics</td>
<td>CONVENERS: Heikki Seppä, Karin Helmens Invited speaker: Katherine J. Willis</td>
</tr>
<tr>
<td>CGC-11 8</td>
<td>Lacustrine records as archives of climate change</td>
<td>CONVENERS: James T. Teller (IYPE, INQUA)</td>
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<tr>
<td>CGC-12 9</td>
<td>The challenge of the Younger Dryas?</td>
<td>Öyvind Paasche, Jostein Bakke</td>
</tr>
<tr>
<td>CGC-13 4</td>
<td>Fjords: climate and environmental change</td>
<td>CONVENERS: Matthias Paetzel, Matthias Forwick, Ross D. Powell, Tore O. Voren</td>
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</tbody>
</table>

### GLACIOLOGY AND GLACIAL GEOLOGY

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>CONVENERS</th>
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<tbody>
<tr>
<td>CGG-01 6</td>
<td>General contributions to glaciology and glacial geology</td>
<td>CONVENERS: Per Holmlund, Johannes Oerlemans, Julian Dowdeswell</td>
</tr>
<tr>
<td>CGG-02 7</td>
<td>Subglacial environments: Processes, sediments, landforms, modelling and experiments</td>
<td>CONVENERS: Jan A. Piotrowski, Chris D. Clark, David J.A. Evans Invited speakers: Neal R. Iverson, Douglas I. Benn</td>
</tr>
<tr>
<td>CGG-03 8</td>
<td>Debris transport and deposition by glaciers</td>
<td>CONVENERS: David Graham, Mike Hambrey, Neil Glasser (IAS, IACS) Invited speakers: Kurt H. Kjaer, Julian Dowdeswell, Ross Powell</td>
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</table>

See also the program for the Arctic Special Symposia.

### EARTH INTERIOR, EXPLORATION GEOPHYSICS

#### DEEP EARTH

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>CONVENERS</th>
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</thead>
<tbody>
<tr>
<td>EID-01 2</td>
<td>(POSTERS ONLY) General contributions to deep Earth</td>
<td>CONVENERS: Hans Thybo, Shun-Ichiro Karato, Brian Kennett</td>
</tr>
<tr>
<td>EID-02 1</td>
<td>Properties and dynamics of mantle and core</td>
<td>CONVENERS: Bernhard Steinberger, Eiji Ohtani, Geld Steinele-Neumann, James Connolly, Shun-Ichiro Karato (IMA-CMP) Invited speakers: Amir Khan, Lars Stixrude, Christine Thomas</td>
</tr>
</tbody>
</table>

70 The 33rd International Geological Congress, Oslo 2008
| EID-03 2 | **Deep Earth seismic tomography: Observations, models and interpretations** CONVENERS: Frédéric Deschamps, Lapo Boschi, Wim Spakman |
| EID-05 4 | **Mantle petrology** CONVENERS: M. Coltorti, M. Wilson, M. Gregoire, S. Arai |
| EID-07 3 | **Geophysical evidence for mantle heterogeneity** CONVENERS: A. Levander, R. van der Hilst, H. Thybo |
| EID-09 3 | **The dynamics of plumes** CONVENERS: Ulrich Achauer, Bernhard Steinberger Invited speakers: Lapo Boschi, Evgene Burov, Judith Yatteville, Dapeng Zhao |
| EID-10 2 | **Phase transformations in the Earth's interior** CONVENERS: Craig R. Bina, Bernard J. Wood Invited speakers: Tetsuo Iritune, Mike Kendall, Sang-Heon Shim, Lars Stixrude, Suzan van der Lee |

**EXPLORATION GEOPHYSICS (Main sponsor for all EIE symposia: PGS)**

| EIE-01 6 | **General contributions to exploration geophysics** CONVENERS: Martin Landro, Neil Williams |
| EIE-02 6 | **Seismic imaging in petroleum exploration and production** CONVENERS: Nils Erik Bakke, Anders Sollid, Lars Sønneland |
| EIE-05 9 | **Electromagnetic petroleum exploration** CONVENERS: Ståle Johansen, Laust B. Pedersen |
| EIE-06 9 | **Time lapse seismic: Monitoring fluid, stress and compaction changes** CONVENERS: Martin Landro et al. |
| EIE-07 7 | **High-resolution geophysical imaging of geological structures and processes in environmental studies** CONVENERS: Alan Green, Christopher Juhlin, Lars Nielsen Invited speakers: Rick Miller, Valentina Socco, Marian Hertrich, Andre Revil, Andreas Kemna, Peter Dietrich, Richard Ogilvy, Esben Aukén |

**GEOMAGNETISM**

| EIG-02 8 | **Geological sources of global magnetic anomalies as interpreted from World Digital Magnetic Anomaly Map (WDMAM)** CONVENERS: Juha V. Korhonen, Colin Reeves, Dhananjay Ravat |

**LITHOSPHERE**

| EIL-01 1 | **General contributions to the lithosphere** CONVENERS: Irina M. Artemieva, Sierd Cloetingh, Alan Leverd |
| EIL-03 2 | **The lithosphere-asthenosphere boundary: Nature, formation and evolution from Hadean to now** CONVENERS: Suzanne O’Reilly, Suzan van der Lee, Juan Carlos Alonso Invited speakers: Alan Jones, Bill Griffin |
| EIL-04 3 | **The continental lithosphere from geophysical and geochemical data** CONVENERS: Irina M. Artemieva, William F. Griffin, Jeroen Ritsema, Hans Thybo |
| EIL-06 3 | **Seismic anisotropy and deformation of the crust and mantle** CONVENERS: Jaroslava Plomerova, Martha Savage, Thorsten Becker, Vadim Levin |
| EIL-07 3 | **The Earth’s gravity field - a key to surface tectonics and mantle geodynamics** CONVENERS: Alessandro Forte, Mikhail Kaban, Tony Watts |
| EIL-08 1 | **Geoelectromagnetic studies of the Earth’s crust and mantle** CONVENERS: J. Ledo, T. Korja, I. Rokityansky |
| EIL-10 2 | **Large-scale seismic transects: Images of the Earth's crust and mantle** CONVENERS: Bruce Goleby, Randell Stephenson, Doug Finlayson, R. Carbonell (IGCP 474) |

**ENVIRONMENTAL GEOSCIENCE**

| EGC-01 2–3 | **General contributions to environmental geochemistry** CONVENERS: Jane Plant, Reijo Salminen, Vala Ragnarsdottr |
| EGC-03 1 | **Urban geochemical mapping** CONVENERS: Rolf Tore Ottesen, Kai Lax, Timo Tarvainen |
| EGC-04 4 | **Geochemical mapping from the global to the local scale: The Arthur Darnley Symposium** CONVENERS: David B. Smith, Clemens Reimann, Jane A. Plant, Reijo Salminen (IUGS/IAGC Task Group on ‘Global Geochemical Baselines’) |
| EGC-06 2 | **Geochemical proxies of palaeoenvironmental change in terrestrial environments** CONVENERS: Attila Demény, Ian Fairchild (IAGC) |
| EGC-07 4 | **Frontiers of stable isotope analysis for environmental science and biogeochemistry** CONVENERS: Martin Novak, Peter M. Wynn (IAGC) |

**ENVIRONMENTAL GEOCHEMISTRY**

| EGG-01 6–7 | **General contributions to environmental geology** CONVENERS: Reijo Salminen, Benedetto De Vivo |
| EGG-03 7–8 | **Geological aspects of radon risk mapping, 9 symposium (GARRM 9)** CONVENERS: Britt-Marie Ek, Marc De Cort, Grégoire Dubois, Matej Nezna, Jerje Strand, Gustav Åkerblom |
COAL GEOSCIENCE (Sponsored by Store Norske Spitsbergen Kulkompani A/S (SNSK))

GEC-01 4 Contributions to coal geoscience CONVENERS: Alv Orheim, Robert B. Finkelman, Malte Jochmann

GEO THERMAL ENERGY

GET-01 7 General contributions to geothermal energy CONVENERS: Ingvar Birgit Fridleifsson, Annette K. Mortensen, Eduordo R. Iglesias
GET-02 7–8 Nature of geothermal systems based on geophysical, geochemical, petrological and tectonic studies CONVENERS: Agnes C. Reyes, Giovanni Gianelli Invited speaker: Julie V. Rowland
GET-03 9 Water–rock interaction Hallbjörn Armansson, Hélène Pauwels
GET-05 6 Geothermal utilization - direct use, electrical production, heat pumps, industry and leisure CONVENERS: John W. Lund, Leif Bjelm, Gordon Bloomquist

PETROLEUM GEOSCIENCE (Main sponsor for all GEP symposia: A/S Norske Shell)

GEP-01 4 General contributions to petroleum geoscience (also sponsored by Saudi Aramco) CONVENERS: Anthony Spencer, Philip Allen, Snorre Olaussen
GEP-02 1 Maximising the value of fossil energy and mineral resources CONVENERS: UN Economic Commission for Europe, Per Blystad
GEP-03 6 Geological basis for estimating the world’s petroleum resources: Challenges and uncertainties CONVENERS: Paul Nadeau, Donald L. Cautier
GEP-04 2 Hydrocarbon resource assessment methodology in a complex architectural context CONVENERS: Richard Sinding-Larsen, Karl Johann Skaar
GEP-06 3 North Sea: Chalk reservoirs and petroleum geoscience (also sponsored by Maersk Oil) CONVENERS: Gunnar V. Sæland, Peter Frykman, Sigrid Borthen Tøven, Andrew Hurst, Ragnar Knarud
GEP-07 1 Petroleum geoscience on the frontier to mature basins of the Atlantic margins from Norway to Ireland – a tribute to Peter Ziegler (also sponsored by Maersk Oil) CONVENERS: Kari Loknæ, Dave Ellis, Mark Seger
GEP-09 6–7 Linking petroleum systems and plays to sedimentary basin evolution (also sponsored by Maersk Oil) CONVENERS: Harry Doust, Maarten Corver, Morten Rye-Larsen, David Roberts, Tony Doré
GEP-10 2 Global controls on sequence stratigraphy CONVENERS: Peter Sharland, Ken Miller
GEP-11 2 Palaeogeography, palaeo-Earth systems modelling and petroleum exploration (also sponsored by Maersk Oil) CONVENERS: Jim Harris, Les Leith, Arne Rasmussen, Thomas Wagner, Philip Meyers, Ute Mann
GEP-13 3 Abiotic deep origin of hydrocarbons: Myth or reality? CONVENERS: Yuri Galant, Vladimir Kutscherov
GEP-15 2 (POSTERS ONLY) Geology for efficient hydrocarbon recovery (also sponsored by Noreco) CONVENER: Ragnar Knarud
GEP-16 4 Improved understanding of the clastic reservoirs through the use of new technologies (also sponsored by RWE Dea Norge AS) CONVENERS: Bjørn Lunsdøien, Trond Lien
GEP-17 4 Unconventional hydrocarbons – coalbed methane, shale gas, tight-gas sands, heavy oil, and oil shale (also sponsored by Saudi Aramco) CONVENERS: Romeo Flores, Richard M. Pollastro Invited speaker: David Mathew
GEP-18 3 Compaction processes – porosity, permeability and rock properties evolution in sedimentary basins – a tribute to Knut Bjørløkke CONVENERS: Per Aagaard, Jen Jøhren, Paul H. Nadeau, Per Arne Bjorkum
GEP-19 3 Carbonate reservoirs and plays (also sponsored by Saudi Aramco) CONVENERS: Tore Amund Svåhå, Joanna Garland
GEP-20 4 (POSTERS ONLY) Outcrop studies: Fundamental to petroleum reservoir characterization and modeling CONVENERS: Ernest A. Mancini, Jim Blankenship (AAPG)

GEOMORPHOLOGY, SOIL SCIENCE

GS

GEOMORPHOLOGY

GSM-01 3 General contributions to geomorphology CONVENERS: Ole Humlum, Monique Fort
GSM-02 1 Geomorphology and landscape response to global change – a tribute to Olav Slaymaker CONVENERS: Xiaoping Yang, Andrew Goudie, Monique Fort (IAG)
GSM-03 1–2 Karst as a global phenomenon – a tribute to Derek Ford and Paul Williams CONVENERS: Stein-Erik Lauritzen, Tim Atkinson, Pavel Bosak

SOIL SCIENCE

GSS

GSS-01 4 Contributions to soil science CONVENERS: Marie-Agnés Courty, Sonia M.B. Oliveira

The 33rd International Geological Congress, Oslo 2008
GEOTECHNOLOGY, REMOTE SENSING

ENGINEERING GEOLOGY AND GEOTECHNICS

GTE-01 6 Contributions to engineering geology and geotechnics CONVENERS: Roger Olsson, Amir Kaynia, Claudio Margottini

GEOMECHANICS

GTM-01 7 Contributions to geomechanics CONVENERS: Fabrice Cuisiat, Anne Skjærstein

NEW METHODS, NEW TECHNOLOGIES AND NANOGEOSCIENCE

GTN-01 1–2 General contributions to new methods and technologies CONVENERS: Jean-Jacques Royer, Andrea G. Fabbri
GTN-04 2 Visualization and innovative techniques in geosciences (sponsored by Fugro) CONVENERS: Jean-Jacques Royer, Qiuming Cheng
GTN-05 2–3 Future trends in 3D and 4D modeling in geosciences CONVENERS: Guillaume Caumon, Charles H. Sword
Invited speaker: Malcolm Ross

REMOTE SENSING

GTR-01 6–7 General contributions to geological remote sensing CONVENERS: Gerhard Bax, Freek van der Meer, Stuart H. Marsh
GTR-02 7 Geological mapping using satellite techniques CONVENERS: Jean-Paul Deroin, Mohamad Khawlie, Abdoulaye Dia
GTR-04 8 Hyperspectral remote sensing and mineral spectroscopy CONVENERS: Alvaro P. Crósta, James V. Taranik
GTR-05 8–9 Microwave remote sensing CONVENERS: Waldir R. Paradella, John Dehls

HISTORICAL GEOLOGY, PALEONTOLOGY

HP

PALEONTOLOGY

HPF-01 3–4 General contributions to paleontology and historical geology CONVENERS: David L. Brunton, Else Marie Fris
HPF-07 4 Rise and fall of the Ediacaran (Vendian) biota CONVENERS: Patricia Vickers-Rich, Mikhail Fedonkin, Jim Gehling (IGCP 493)
HPF-09 4 Marine and non-marine Jurassic; Global correlation and major geological events CONVENERS: Vivi Vajda, Jingeng Sha, Yongdong Wang (IGCP 506)
HPF-10 4 Dawn of the Danian CONVENERS: Jeffrey Stilwell, Miguel Griffin, Eckart Håkansson, Kumar Ayyasami (IGCP 522)
HPF-12 3–4 Environmental micropaleontology: Past, Present, future CONVENERS: Valentina Yanko-Hombach, Ronald Martin (ISEMMM)
HPF-13 3 Major events in the evolution of marine biota CONVENERS: David Harper, Rong Jiayu
HPF-14 1 Major events in the evolution of terrestrial biota CONVENERS: Steve Mcloughlin, Zhou Zhonghe
HPF-15 1 Mining the fossil record through geoinformatics CONVENERS: Marc A. Carrasco, Anthony D. Barnosky
HPF-16 1 Correlation between the marine and terrestrial realms: Problems, solutions, applications CONVENERS: Karen Dybkjaer, Sofie Lindström
HPF-17 4 Trace fossils – ichnological concepts and methods CONVENERS: Dirk Knaust, Richard Bromley
Invited speakers: Adolf Seilacher, George Pemberton, Luis Buatois

PRECAMBRIAN GEOLOGY

HP

HP-01 6 General contributions to Precambrian geology CONVENERS: Raimo Lahtinen, S. Wilde, J. Percival
HP-04 6–7 From Rodinia to Nuna and beyond: Precambrian supercontinent reconstructions delving deeper in time CONVENERS: Svetlana Bogdanova, David Evans, Mauro Cesar Geraldes, Hervé Théveniaut (IGCP 440 and ICSP 509)
HP-05 7–8 Evolution of Archean crust CONVENERS: Yildirim Dilek, Harald Furnes, Maarten de Wit
HP-06 9 The evolving Earth system through Archaean–Palaeoproterozoic transition CONVENERS: Victor A. Melezhik, David A.D. Evans, Ariel Anbar (ICGP509, ICDC FAR-DEEP, Kaapvaal Drilling Project, ABDP)

The 33rd International Geological Congress, Oslo 2008
**HYDROGEOLOGY**

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<tr>
<td>HYH-01</td>
<td>General contributions to hydrogeology</td>
<td>Karsten H. Jensen, Leonard Konikow</td>
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<tr>
<td>HYH-02</td>
<td>Groundwater resources and management</td>
<td>Jarl Øvstedal, Aina Akhtar, Paliwal Bhawani Shanker, Stephen Ragone (AGID)</td>
<td>HYH</td>
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<tr>
<td>HYH-05</td>
<td>Hydrogeological aspects of Quaternary geology and climate change</td>
<td>Sylvie Haldorsen, Ola Sæther</td>
<td>HYH</td>
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<tr>
<td>HYH-06</td>
<td>Groundwater development - experiences from low-income countries, foreign aid projects and disaster relief – a symposium including the UNESCO-IUGS-IGCP project GROWNET</td>
<td>Kim Rudolph-Lund, Costantino Failla, Shrikant D. Limaye (UNESCO-IUGS-IGCP 523, AGID)</td>
<td>HYH</td>
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<tr>
<td>HYH-07</td>
<td>Groundwater flow and water–rock interaction in compact fractured rocks: Storage of nuclear waste, field evidence and mathematical models</td>
<td>Tomas Paces, Cett Knutsson, Peter Wikberg</td>
<td>HYH</td>
</tr>
<tr>
<td>HYH-08</td>
<td>Management of coastal aquifers</td>
<td>Shrikant D. Limaye, Giovanni Barrocu (AGID)</td>
<td>HYH</td>
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<tr>
<td>HYH-09</td>
<td>International perspectives on karst aquifers and water resources</td>
<td>Chris Groves, Yuan Daoxian, Bartolome Andrea-Navarro, Heather Viles (UNESCO-IUGS-IGCP 513)</td>
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**GEOARCHAEOLOGY**

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<tr>
<td>IEA-01</td>
<td>General contributions to geoarchaeology</td>
<td>Magnus Hellqvist, Filippos Tsikalas</td>
<td>IEA</td>
</tr>
<tr>
<td>IEA-03</td>
<td>Geophysical and geochemical archaeology</td>
<td>Öleg B. Khavroshkin, Andrey V. Zhukov</td>
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<td>Invited speaker:</td>
<td>Mario Alejandro Caría</td>
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<tr>
<td>IEA-04</td>
<td>The geoarchaeological perspective: Human interactions with the geosphere</td>
<td>Lucy Wilson, Pam Dickinson, Eric Fouache (IAG Working Group on Geoarchaeology)</td>
<td>IEA</td>
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<tr>
<td>IEA-05</td>
<td>Geology and cultural heritage</td>
<td>Tom Heldal</td>
<td>IEA</td>
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<tr>
<td>IEA-06</td>
<td>Geoarchaeology and archaeometry</td>
<td>Patrick Degryse (Society for Archaeological Science, ASMOIA)</td>
<td>IEA</td>
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# GEOHERITAGE AND SOCIETY

*(Coordinated by Sven Dahlgren, Lars Erikstad, Alexandre Sales.)*

<table>
<thead>
<tr>
<th>IES-01</th>
<th><strong>General contributions to geoheritage and society</strong> CONVENERS: Antony J. Reedman, Chris Woodley Stuart, Jiang Janjun, Pasquale Li Puma, Afia Akhtar (EGN, AGID, GGN)</th>
</tr>
</thead>
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<tr>
<td>IES-02</td>
<td><strong>Earth heritage: Science, education and capacity building</strong> CONVENERS: Peter Bobrowsky, Robert Missotten, Zhao Xun (IUGS, UNESCO, GGN)</td>
</tr>
<tr>
<td>IES-03</td>
<td><strong>Geosites and landscape – conservation and management strategies</strong> CONVENERS: Jose Brilha, Emmanuel Reynard (ProGEO, IAG)</td>
</tr>
<tr>
<td>IES-04</td>
<td><strong>Geoparks and geotourism</strong> CONVENERS: Nickolaos Zouro, Patrick McKeever (EGN)</td>
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# GEOSCIENCE EDUCATION AND ETHICS

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<th>IEE-01</th>
<th><strong>General contributions to geoscience education and ethics</strong> CONVENER: Käre Kullerud</th>
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<tr>
<td>IEE-02</td>
<td><strong>Geoscience for schools in developing countries</strong> CONVENERS: Afia Akhtar, Antony J. Reedman (AGID)</td>
</tr>
<tr>
<td>IEE-03</td>
<td><strong>Earth system geoscience education</strong> CONVENERS: Gerald H. Krockover, Daniel P. Sheppardson</td>
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<tr>
<td>IEE-04</td>
<td><strong>Impact and value of geological knowledge</strong> CONVENERS: Peadar McArdle, Hans Peter Schoenlaub</td>
</tr>
<tr>
<td>IEE-05</td>
<td><strong>Geoscience education for the 21st century</strong> CONVENERS: Ian Clark, Chan-Jong Kim, Chris King (IUGS Commission on Geoscience Education, Training &amp; Technological Transfer)</td>
</tr>
<tr>
<td>IEE-07</td>
<td><strong>Geosciences</strong> CONVENERS: Vaclav Nemec, Lidmila Nemcova (AGID)</td>
</tr>
<tr>
<td>IEE-08</td>
<td><strong>Geosciences and art</strong> CONVENERS: José Sellés-Martínez</td>
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# GEOSCIENCE INFORMATION

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<tr>
<th>IEI-01</th>
<th><strong>General contributions to geoscience information</strong> CONVENERS: Ian Jackson, John Broome, Udo Strauss, Robert Tomas (CGI, IAMG, GIC)</th>
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<tr>
<td>IEI-02</td>
<td><strong>Data capture and acquisition</strong> Coordinator: Guy Buller</td>
</tr>
<tr>
<td>IEI-03</td>
<td><strong>Data capture and acquisition</strong> CONVENERS: Guy Buller, Colm Jordan, Eric Grunsky, Mary Carter, Marco Amanti Information management Coordinator: John Broome</td>
</tr>
<tr>
<td>IEI-05</td>
<td><strong>If you can't find the data, why bother collecting and keeping it? - the importance of good metadata</strong> CONVENERS: Per Rygaab, Jerry Giles</td>
</tr>
<tr>
<td>IEI-06</td>
<td><strong>Data models and architectures</strong> CONVENERS: Boyan Broderic, John Laxton</td>
</tr>
<tr>
<td>IEI-07</td>
<td><strong>Interoperability and exchange formats – developments in XML, GML, GeoSciML, OGCI, ISO and other standards</strong> CONVENERS: Simon Cox, Lars-Kristian Stölen</td>
</tr>
<tr>
<td>IEI-09</td>
<td><strong>Spatial data infrastructures and strategies for geoscience information</strong> CONVENERS: François Robidas, Ian Kooijman</td>
</tr>
<tr>
<td>IEI-09</td>
<td><strong>Managing the transition from map making to database building</strong> CONVENERS: Dave Soller, Clinton Smyth Information dissemination and delivery Coordinator: Ian Jackson</td>
</tr>
<tr>
<td>IEI-12</td>
<td><strong>Geological maps in the digital era: Quo Vadis?</strong> CONVENERS: Kristine Asch, Koji Wakita</td>
</tr>
<tr>
<td>IEI-13</td>
<td><strong>Developments in geoscience information i) the developing world, ii) uncertainty</strong> CONVENERS: Anna-Karren Nguno, Max Fernandez, Gina Ross</td>
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<tr>
<td>IEI-14</td>
<td><strong>Decision support systems: best practice in using GIS and geoscience data to help society's problems</strong> CONVENERS: Robert Tomas, Bobo Nordahl</td>
</tr>
<tr>
<td>IEI-15</td>
<td><strong>Accessing and sharing geoscience information: the problems and issues of disseminating geoscience data in a digital era (including digital rights management, licensing, IPR, copyright, public sector data for free or a fee, and liability)</strong> CONVENERS: Ian Jackson, Bernhard Wagner Information technology and systems Coordinator: Udo Strauss</td>
</tr>
<tr>
<td>IEI-19</td>
<td><strong>Digital standards, security and authentication of web-based database</strong> CONVENERS: Ryoichi Kouda, Udo Strauss</td>
</tr>
<tr>
<td>IEI-20</td>
<td><strong>Free and open-source geospatial software: applications in Earth Sciences and recent development</strong> CONVENERS: Henning Lorenz, Markus Neteler 3 and 4D modelling and visualisation Coordinator: Andy Howard</td>
</tr>
<tr>
<td>IEI-22</td>
<td><strong>Adding an extra dimension: moving geological surveys to a 3D culture</strong> CONVENERS: Andy Howard, Harvey Thorleifson, Jacques Vairon, Catherine Truillet</td>
</tr>
<tr>
<td>IEI-26</td>
<td><strong>Short-Sharp-Share</strong> Coordinator: Harvey Thorleifson</td>
</tr>
</tbody>
</table>

# HISTORY OF GEOSCIENCES

<table>
<thead>
<tr>
<th>IEH-01</th>
<th><strong>General contributions to history of geosciences</strong> CONVENERS: Jens Morten Hansen, David Oldroyd (INHIGEO) Invited speakers: A. M. Celal Şengör, David Oldroyd</th>
</tr>
</thead>
<tbody>
<tr>
<td>IEH-03</td>
<td><strong>Myth and geology</strong> CONVENER: W. Bruce Masse</td>
</tr>
<tr>
<td>IEH-05</td>
<td><strong>History of exploration of the polar regions</strong> CONVENERS: Cornelia Lüdecke, Naja Mikkelsen (INHIGEO)</td>
</tr>
</tbody>
</table>
EXPERIMENTAL PETROLOGY AND MINERALOGY

MPE-01 4  Contributions to experimental petrology and mineralogy – a tribute to Surendra Saxena  CONVENERS: Peter Lazor, Guoyin Shen

GEOCHRONOLOGY AND ISOTOPE GEOLOGY

MPC-01 1  General contributions to geochronology and isotope geology  CONVENERS: Åke Johansson
MPC-02 3  Geochronology of metamorphic reactions and deformation in high-grade orogenic settings  CONVENERS: Jenny Andersson, Bernard Bingen, Ulf Söderlund, David Cornell  Invited speakers: Daniela Rubatto, Johannes Gladny
MPC-03 1  Precambrian isotope chemostatigraphy  CONVENERS: Alcides Nobrega Sial, Claudio Gaucher, Valderez Pinto  Ferreira  Invited speaker: Alan Jay Kaufman
MPC-04 1  Constraining timing and rates of surface processes by low temperature thermochronology  CONVENERS: Bart W.H. Hendriks, Tim F. Redfield
MPC-05 2  Evolution of the crust and oceans through Re-Os geochemistry: A decade of discovery  CONVENERS: Holly Stein, Judith Hannah

IGNEOUS PETROLOGY

MPI-01 2  General contributions to igneous petrology  CONVENERS: Brian Robins, Marjorie Wilson
MPI-02 2  Integrated perspectives on the accretion of oceanic crust  CONVENERS: Yildirim Dilek, Jeffrey A. Karson
MPI-03 2  Granite classification - a never-ending problem  CONVENERS: Bernard Bonin, Tapani Rämö, Tom Andersen  (IUCS Subcommission of Systematics on Igneous Rocks (SSIR) and UNESCO – IGCP 510)
MPI-04 3-4  Mafic dyke swarms: A global perspective  CONVENERS: Rajesh K. Srivastava, Wouter Bleeker, Richard Ernst
MPI-04 3  Large igneous provinces: Initiation, evolution and origin  CONVENERS: Lothar Viereck-Goette, Sverre Planke
MPI-06 3  Layered intrusions and the evolution of magma chambers – a tribute to J. Richard Wilson  CONVENERS: Christian Tegner, Bernard Charlier, Brian Robins
MPI-07 4  Alkaline and carbonatite magmatism and related ore deposits  CONVENERS: Lia Kogarko, Tom Andersen, Kathryn Moore

METAMORPHIC PETROLOGY

MPN-01 6  (POSTERS ONLY) General contributions to metamorphic petrology  CONVENERS: William Carlson
MPN-02 6  Metamorphism and metamorphic processes  CONVENERS: Leif Johansson, Håkon Austrheim, Erling Krogh Ravnø
MPN-03 6-7  Mineral replacement and mass transfer in hydrothermal systems: From the nanoscale to the megascale  CONVENERS: Andrew Putnis, Ane K. Engvik
MPN-05 7  Earthquakes, fluids and metamaturation  CONVENERS: Torgeir B. Andersen, Timm John
MPN-06 7  Extreme metamorphism during the amalgamation of Gondwana: Tectonics, rates and models  CONVENERS: Chris Clark, Alan Collins, Renato Moraes, M. Santosh
MPN-12 8-9  Sederholm symposium on high-grade metamorphism, crustal melting, migmatites and granites  CONVENERS: Mike Brown, Olav Eklund, Peter Sorjonen-Ward

MINERALOGY

MPM-01 2  General contributions to mineralogy  CONVENERS: Kari Kojonen, Chris Stanley (IMA)  Invited speakers: David J. Vaughan, Katsuo Tsukamoto
MPM-02 4  Frontiers in quartz research: The genesis, crystal chemistry and economic importance of igneous, metamorphic and hydrothermal SiO2-polymorphs (sponsored by El kem)  CONVENERS: Rune B. Larsen, Peter M. Ihlen, Axel Müller  Invited speakers: Trond Brenden-Visals, Jens Götte, Alfons van den Kerkhof, Brian Rusk, Marion Stevens-Kalceff
MPM-04 4  Platinum-group mineralogy  CONVENERS: Andy McDonald, Kari Kojonen (COM)  Invited speakers: Louis J. Cabri, Kreshimir Malitch
MPM-06 6  Melts and glasses in mineralogy and petrology  CONVENERS: Daniel Neuville et al. (IMA-CMP)
MPM-07 3  Mineral spectroscopy  CONVENERS: Georg Amtshauer et al. (IMA-CMP)
MPM-10 3  Fluids and melts in the Earth's mantle: From natural observation to HT-HP experiment  CONVENERS: Leonid L. Perchuk, Oleg G. Safronov (IMA-WGME)
MPM-11 3  Phase transformations and geodynamics  CONVENERS: Taras V.Gerya, Leonid L.Perchuk (IMA-WGME)
MPM-12 9  New developments in microbeam techniques  CONVENERS: Jan Kosler, John Hanchar, Martin Whitehouse
MPM-13 7  Inclusions in minerals  CONVENERS: Sergey Smirnov, Pei Ni, Matti Poutiainen (IMA-WGIM)
VOLCANOLOGY

MPV-01 7–8  General contributions to volcanology CONVENERS: Valentin Troll, Thorvaldur Thorodarson
MPV-05 8  Volcanic eruptions: Chamber-, conduit-, and depositional processes and their implication for monitoring and hazard assessment CONVENERS: Valentin Troll, Jane Chadwick
MPV-06 9  The construction/destruction of magmatic and volcanic systems: New insights into magma-tectonic and volcano-tectonic processes in the Earth’s crust CONVENERS: Olivier Galland, Eoghan Holohan

MINERAL RESOURCES

CONSTRUCTION MATERIALS

MRC-08 2–3  Geological construction materials CONVENERS: Björn Schouenborg, Mika Räsänen, Katarina Malaga, Peer R. Neeb

INDUSTRIAL MINERAL DEPOSITS (Sponsored by Nordic Mining ASA)

MRB-01 1  Contributions to industrial mineral deposits CONVENERS: Nikolaos Arvanitidis et al.

MINERAL DEPOSITS (Main sponsor for all MRD symposia: Boliden)

MRD-01 8–9  General contributions to mineral deposits CONVENERS: Krister Sundblad, Eiji Izawa, Milka K. de Brodtkorb
MRD-02 2  Deep sources and signatures of ore forming systems - a tool for new discoveries of mineral deposits CONVENERS: Sergei Cherkasov, Lawrence M. Cathles, Vadim I. Kazansky
MRD-03 3  Recent advances and future developments in marine minerals CONVENERS: David S. Cronan, Peter A. Rona, Akira Usui (IMMS)
MRD-04 2  Giant ore deposits CONVENERS: Peter Laznicka, Pei Rong Fu, Mikhail Raifalovich Invited speaker: Peter Laznicka
MRD-06 8  Granitic magmatism and related mineralizations CONVENERS: Alcides Nobrega Sial, Jorge da Silva Bettencourt, Cristina Pinheiro De Campos Invited speaker: Richard Tosdal
MRD-07 4  Geology and mineral potential of CIS countries CONVENERS: Oleg Petrov, Reimar Seltmann (IAGOD)
MRD-08 6  Volcanic-hosted massive sulphide deposits: Controls on distribution and timing CONVENERS: Rodney Allen, Fernando Tornos, Jan Peter, Namik Cagatay (ICGP 502)
MRD-09 3  Au-Ag telluride-selenide deposits CONVENERS: Nigel Cook, Kari Koijonen (ICGP 486, IAGOD, IMA-COM)
MRD-10 1  Large ore provinces of Central Asia CONVENERS: Dmitry Pushcharovsky, Ginayar R. Bekzhanov, Bernd Lehmann (SGA)
MRD-11 1  Metalloceny of Fennoscandia CONVENERS: Felix Mitrofanov, Krister Sundblad, Pär Weihe

OCEAN SCIENCES

MARINE GEOSCIENCE & PALEOCEANOGRAPHY

OSP-01 1  General contributions to marine geoscience & paleoceanography CONVENERS: Hafldís Halldíason, Angelo Camerlemghi, Jerry McManus
OSP-02 2  Marine geophysics: State-of-the-art and a look ahead - a tribute to Manik Talwani CONVENERS: Olav Eldholm, Jörn Thiede

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OSP-04 4  Contourites CONVENERS: Jan Sverre Laberg, Adriano R. Viana, Michele Rebisco

OSP-06 3  Causes of oxid-anoxic changes in Cretaceous marine and non-marine environments and their implications for Earth systems CONVENERS: Chengshan Wang, Luba Jansa (IGCP 463 and 555)

OSP-07 2  Oceanic hypoxia: Present and past CONVENERS: Elisabeth Alve, Hiroshi Kitazato, Bruce H. Corliss

PLANEY SCIENCES, IMPACT STRUCTURES  PI

COMPARATIVE PLANETOLOGY  PIP

PIP-01 6  General contributions to comparative planetology CONVENERS: Henning Haack, Alfred McEwen

PIP-02 7  The geology of Mars and Venus - recent results CONVENERS: Jouko Raitala, Marko Aittola, Petri Kostama

PIP-04 7  From gas and dust to planets CONVENERS: Martin Bizzarro, Thorsten Kleine

PIP-06 7  Origin and evolution of the Moon CONVENERS: Timothy Fagan, Tomoko Arai

IMPACT STRUCTURES  PIS

PIS-01 8  Contributions to impact structures CONVENERS: Birger Schmitz, Henning Dypvik, Christian Koeberl

SEDIMENTOLOGY  SE

SEDIMENTOLOGY  SES

SES-01 7  General contributions to sedimentology CONVENERS: Knut Bjørlykke, Ron Steel, William Helland-Hansen

SES-03 6  Intra-basaltic sediments and weathering horizons as monitors of climate change CONVENERS: Mike Widdowson, Mohammed Rafi G. Sayed Invited speaker: Arie Singer

SES-05 9  Dynamics of complex intracontinental basins CONVENERS: Ulf Bayer, Ralf Litteke, Dirk Gajewski

SES-07 8  Dynamics of sedimentary basins CONVENERS: Susanne Buitin, David Egholm Invited speaker: Philip Allen

SES-08 6  New insights into basin analysis: Palaeoenvironments, geochemistry and depositional processes CONVENERS: Bettina Reichenbacher, Philip Ringrose

STRUCTURAL GEOLOGY, TECTONICS  ST

NEOTECTONICS  STN

STN-01 2  General contributions to neotectonics CONVENERS: Odleiv Olesen, Michel Sébrier, Anthony Crone

STN-02 1  Neotectonics and stress state in formerly glaciated regions CONVENERS: Christophe Pascal, Iain Stewart, Bert Vermeersen Invited speakers: Andrea Hampel, Jeanne Sauber

STN-03 3  Morphotectonics of lowland areas CONVENERS: Jonas Satkunas, Andrzej Piotrowski, Marek Graniczny

STN-04 3  Stress/strain partitioning in active orogens, with emphasis on geomorphic/geologic signature of bounding blind thrust faults CONVENERS: Franck Audemard, Alejandro Escalona, Karl Müller (INQUA, IAG)

PALEOSEISMOLOGY  STP

STP-01 3  General contributions to paleoseismology CONVENERS: Hilmar Bungum, Allesandro Michetti, John Adams Invited speaker: James McCalpin

STP-02 3–4  Deducing nature and magnitude of paleoearthquakes: Finding paleoevents and quantifying them CONVENERS: Alessandro Michetti, Karl Müller, Klaus Reicherter (INQUA Subcommission on Paleoseismicity) Invited speaker: Antonio Codony


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<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>CONVENERS</th>
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<tbody>
<tr>
<td>STT-01</td>
<td>General contributions to tectonics and structural geology</td>
<td>Hemin Koyi, Roy Gabrielsen</td>
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<tr>
<td>STT-02</td>
<td>Structure and formation of rift basins and passive margins from surface to depth: Observations and modelling</td>
<td>Ritske Huismans, Nina Simon, Lars Ruepke, Yuri Podladchikov</td>
</tr>
<tr>
<td>STT-03</td>
<td>Accretionary orogens: Character and processes</td>
<td>Yukio Isozaki, Raimo Lahtinen (ERAS project)</td>
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<tr>
<td>STT-05</td>
<td>Ocean–continent transitions at rifted margins</td>
<td>Erik Lundin, Jan Inge Faleide, Gianreto Manatschal, Nick Kusznir</td>
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<tr>
<td>STT-06</td>
<td>Marine and continental fold and thrust belts</td>
<td>Hermann Lebit, Rob Butler, Signe Ottesen, Chris Hedlund, Stefano Mazzoli (IUGS Task Group on Structural Geology and Tectonics)</td>
</tr>
<tr>
<td>STT-07</td>
<td>Three-dimensional aspects of subduction zone processes: Insight from dynamic modelling, tectonic reconstructions and observational studies</td>
<td>Wouter P. Schellart, Gideon Rosenbaum, Dave Stegman</td>
</tr>
<tr>
<td>STT-08</td>
<td>Numerical and analogue modelling of deformation - from the micro- to the crustal scale</td>
<td>Sudipta Sengupta, Paul D. Bons, Hemin Koyi</td>
</tr>
<tr>
<td>STT-09</td>
<td>New concepts in global tectonics</td>
<td>Dong Choi, Karsten Storetvedt, Forese Carlo Wezel</td>
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</table>
Detailed Symposia Programme

How to read the programme
Each day is split into sessions, and symposia are placed according to which session the symposium begins in.

EM = Early Morning session
LM = Late Morning session
EA = Early Afternoon session
LA = Late Afternoon session

Symposia are listed in alphabetical order within their session.
Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.
The sections of the programme labeled ‘Posters’ show symposia containing only poster presentations.
‘Thursday 7 August – Posters’ also includes posters belonging to Wednesday, day 1 symposia.
‘Wednesday 13 August – Posters’ also includes posters belonging to Thursday, day 9 symposia.

Each presentation has a unique number. This provides the following information:
1st 3 letters and 2 digits = symposium code
6th digit = day of presentation
7th and 8th digits = sequence of presentation
Final letter = lecture (L) or poster (P) presentation.

For example, AAA01232P is in symposium AAA-01, on day 2 (Thursday, 7th), sequence number 32, poster presentation.

<table>
<thead>
<tr>
<th>Session code</th>
<th>Day</th>
<th>Sequence number</th>
<th>Poster or lecture</th>
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<tr>
<td>AAA01232P</td>
<td>2</td>
<td>3</td>
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Poster presentations
Poster presentations will be held on the day or the first day that a symposium runs with the following exceptions:
- Poster presentations in Wednesday, 6th August day 1 symposia will be held on Thursday, 7th August day 2
- Poster presentations in Thursday, 14th August day 9 symposia will be held on Wednesday, 13th August day 8

Posters are located in Hall C, the same area as the exhibition. The size of the poster boards for presentations is 145 cm wide and 135 cm high. Fixing material is available in the poster area.

Each poster will be displayed throughout the day of the poster session. At least one of the authors of the poster must be present at the poster board between 17.30 and 19.00 and during lunch and coffee breaks.

To maximise viewing times, authors must put up their posters between 08.00 and 10.00 and remove them between 18.30 and 19.00.

The Congress staff will remove posters not taken down on time, but are unable to take any further responsibility for the material.

Speaker Ready Room
The Speaker Ready Room is located in Hall A beyond the entrance to the Plenum Hall (see venue map). Speakers are asked to deliver their presentation to the assigned technician the day before their lecture and at the very latest 2 hours prior to their presentation. The Speaker Ready Room will be open from 07.30 in the morning. Please note that it is not permitted to use your own PC during your presentation.
Wednesday 6 August – Early Afternoon

<table>
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<tr>
<th>Session code</th>
<th>Day</th>
<th>Sequence number</th>
<th>Poster or lecture</th>
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<td>AAA</td>
<td>1</td>
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The following symposia begin in this session. Some symposia continue on the next day. Next day presentations may be found in the next day section.

**Wednesday 1400h**

**AAA-01 Paleogeographic evolution of the Arctic region during the Phanerozoic – Part 1**

1400h AAA01101L Understanding circum-Arctic tectonics: A Eurasian perspective: V Pease

1430h AAA01102L Structure and evolution of the Arctic oceanic crust in the light of new regional compilations: C Gaina, R Saltus, A Alvey

1445h AAA01103L Mapping Arctic crustal thickness and OCT location using gravity anomaly inversion: Implications for the amerasia basin: N Kuszni, A Alvey, N Lebedeva-Ivanova, C Gaina, T Torsvik

1500h AAA01104L Tectonics of the Western Amerasia Basin: M Kosko, G Grikurov, V Kaban’kov, V Poselov

1600h AAA01105L Tectonic development of the Amerasia Basin, Arctic Ocean: A Grantz, P Hart

1630h AAA01106L Pre-Mississippian tectonostratigraphic framework of arctic Alaska: Implications for the opening of the Amerasia basin: T Moore, K Bird

1645h AAA01107L Late Neoproterozoic – Cambrian palaeogeography of northern Greenland: Early evolution of the Franklinian basin: J Ineson, J Peel, F Surlyk

1700h AAA01108L The Arctic connection: A tale of Greenland and Ellesmere islands: T Torsvik, A Alvey, C Gaina, N Kuszni

1715h AAA01109L The Arctic tectonic puzzles: V Khain, N Filatova

**Wednesday 1400h**

**AMS-03 South American metallogeny**

1400h AMS03101L The digital metallogenic map of South America: E Zappettini

1430h AMS03102L Comparative Sr, Pb and Nd isotopic compositions of Rosario and Ujina porphyry copper-molybdenum deposits, Collahuasi District: Implications for hydrothermal models: C Tassimari, F Munizaga, V Maksaev

1445h AMS03103L Structural control & mineralogical zonation as geological boundaries for central andean magmatogenic / hydrothermal mining districts: C Vidal

1500h AMS03104L Metamorphic evolution of Weber Belt and timing of gold mineralization in Fazenda Brasileiro gold deposit, Bahia, Brazil by ArAr and on Amphiboles: K Pires, N Vielreicher, L Snee, D Groves, M Formoso, D Beaufort, K Koji

1515h AMS03105L The Alvo 118 iron oxide-copper-gold deposit, Carajas Mineral Province, Brazil: Constraints on the hydrothermal system evolution based on paragenesis, stable isotope and fluid inclusion data: I Torresi

**Wednesday 1400h**

**CC0-01 Climate system: Quo vadis?**

1400h CC01101L Paleocenology of the North Atlantic and initiation of the Great Ocean Conveyor based on foraminifera data: L Lukashina

1415h CC01102L Late Quaternary climate variations reflected in Baltic sea sediments: J Harf, R Endler, E Emelyanov, S Kotov, M Moros, R Olea, J Taranenko

1430h CC01103L Global warming – some facts and figures Topic: Glacial warming: B Purkait

1445h CC01104L Legal responsibility for climatic change's natural risks: Applicability of prevention principle in the subtropical region of Argentina: F Sayago, J Sayago

1500h CC01105L Climate change, natural disasters and adaptation: The Italian perspective: D Spizzichino, C Margottini, G Onorati

1515h CC01106L Thermometric and pluviometric trend on homogeneous series and definition of local climates in piedmont (NW Italy): S Fratianni, F Acquavetta

**Wednesday 1400h**

**CGC-04 Neoproterozoic ice ages: Quo vadis? – Part 1**

1415h CGC04101L Controls on Neoproterozoic-Cambrian oxygenation: G Shields

1430h CGC04102L Organic microbiota surviving the Cryogenian crisis – a new record from the Nyborg formation, northern Norway: M Moczydlowska

Poster presentations in Wednesday, day 1 symposia will be held on Thursday, day 2.
1445h CGC04103L Climate model simulations of the transition from the present-day climate to a modern Snowball Earth: A Voigt, J Marotzke

1500h CGC04104L Paleolatitudes of Neoproterozoic snowball glacial deposits: Biases and synthesis: T Raub, D Evans

1600h CGC04105L The glacial record of the Neoproterozoic Tillite Group in northern East Greenland: M Hambrey, J Etienne

1615h CGC04106L The Neoproterozoic Tillite Group from Ella Ø, East Greenland: Carbon isotope signatures and correlations: B Buchardt, K Kristiansen, M Houmark-Nielsen

1630h CGC04107L Neo Proterozoic glacial diamictites in east-Greenland: How, why and when?: M Houmark-Nielsen

1645h CGC04108L The Neoproterozoic Tillite Group of East Greenland revisited, in view of the snowball earth hypothesis: E Domack, P Hoffman, G Halverson

1700h CGC04109L Large glacioeustatic changes during the Ghaub glaciation (635 Ma) and its syn-deglacial cap dolostone, Otavi carbonate platform, northern Namibia: P Hoffman

Wednesday 1400h

EGC-03 Urban geochemical mapping

1400h EGC030224L H Mielke

1430h EGC03010L Natural and anthropogenic soil geochemical characteristics of Belfast, Glasgow, Cardiff and east London, in the UK: S Nice, D Flight, F Fordyce, T Lister

1445h EGC03020L Multimedia mapping in urban areas: K Lax, M Andersson

1500h EGC03013L Origin and fate of heavy metals in an urban area (Leoben, Austria) as traced by chemical and magnetic investigations of sewage sludge and water: G Rantitsch, E Gaisberger, R Scholger, T Windisch, B Runge, T Meisel, W Prochaska, R Gratzer

1515h EGC03014L Soil geochemistry of the Denver, Colorado (USA) metropolitan area: Mapping change from 1972 to 2005: D Smith, D Helsel, L Closs, J Kilburn, S Smith, J Horton

1600h EGC03015L National action plan for mapping and remediation of soil pollution in day-care centers and playgrounds in Norway: R Ottesen

1615h EGC03016L Background and baseline values of the Bagnoli brownfield site and sea sediments (Naples, Italy): S Albanese, D Civitillo, A Cosenza, B De Vivo, A Lima

1630h EGC03017L Trace metal contamination in urban soils of Hong Kong using GIS and multivariate statistics approaches: X Li, C Lee, W Shi, S Cheung, J Thornton

1645h EGC03018L Heavy metal contamination in an urban watershed in southeastern Michigan, USA: K Murray, M Kaufman, D Rogers

1700h EGC03019L Acid water diffusion with heavy metal elements from mud sediments in urban ground: T Ohta

1715h EGC03101L Geochemical evaluation of sediments situated downstream of an urban area (Wettingen reservoir): S Jüstrich, W Wildi

Wednesday 1400h

EID-02 Properties and dynamics of mantle and core

1400h EID02010L Rapid uplift of the Victor kimberlite, South Africa: Documented by OH-diffusion profiles in garnet from eclogitic xenoliths (UNESCO IGCP 557): H Sommer, C Hauzenberger, K Regenauer-Lieb, B Gasbarro

1415h EID02020L Molybdenum partitioning at high pressures and temperatures: Experimental constraints on core formation: C Agee, L Burkenmper

1430h EID02030L Seismic structure of the Earth's inner core using free oscillations: A Deuss, J Irving

1445h EID02040L New Frontiers in the laboratory study of seismic-wave dispersion and attenuation: The roles of dislocations and water: Y Aizawa, A Barnhoorn, R Farla, U Faul, J Jackson, J Fitz Gerald, H Kokkonen, I Kovacs

1500h EID02050L Post-perovskite lenses in the lowermost mantle: C Thomas

1515h EID02060L Electronic and magnetic structure of the postperovskite phase in FeO: S Shim, W Sturhahn, K Catalli, J Zhao, M Lerche, A Kubo, V Prakapenka

1600h EID02070L Potassium in the lower mantle and core and implications for energetics of the Earth: E Ohnani, S Kamada, N Hiroa, T Sakai

1615h EID02080L Ab-initio predictions of potassium partitioning between Fe and Al-bearing MgSiO_3 perovskite and post-perovskite: G Steinle-Neumann

1630h EID02090L Minerals to mantles: The planetary mosaic: L Stixrude, C Lithgow-Bertelloni, W Xu

1700h EID02100L Constraining the bulk major element composition and thermal state of the earth's lower mantle from a joint inversion of electromagnetic sounding, seismic and gravity data: A Khan

Wednesday 1400h

EIL-01 General contributions to the lithosphere

1400h EIL01010L Late Cenozoic development of the Knipovich Ridge (North Atlantic): A Peyve, N Chamov

1415h EIL01020L Evolution of lithosphere beneath the Syrian rift: A geodynamic model: A Bilal

1430h EIL01030L Thermal studies of the crust of Sulu ultra-high pressure metamorphic belt: L He, S Hu, W Yang, J Wang

1445h EIL01040L Thermal considerations in lithospheric evolution along transtensional plate boundaries: Lessons from the Neogene evolution of New Zealand: K Furlong

1500h EIL01050L The effect of global warming on the Lithosphere: Calculation of the energy release: P Parubets, N Parubets

1515h EIL01060L The Southern African Magnetotelluric Experiment (SAMTEX) images the underbelly of southern Africa: A Jones, M Muller, M Hamilton, M
1600h EIL01107L Negative dynamic topography of the East European Craton: low SCLM density or mantle downwelling?: I Artemieva
1615h EIL01108L Thermal state of the Norwegian lithosphere: insights from integrated heat flow and isostatic studies: C Pascal, H Elvebakk, O Olesen, K Midttunne, T Slagstad, B Wissing
1630h EIL01109L Where does the subducted Indian mantle lithosphere go beneath the Tibetan plateau?: S Zhang, Y Shi
1645h EIL01110L New insights on the structure and dynamics of the intermediate-depth seismic zone located in the bending area of east Carpathians: INDEGEN project: L Besutlu, et al
1700h EIL01111L Engaging park and museum staffs in informal geoscience education via the earthscope program: R Lillie

Wednesday 1400h
EIL-08 Geoelectromagnetic studies of the Earth's crust and mantle
1400h EIL08101L The electrical structure of mantle lithosphere: A Jones
1430h EIL08102L Electrical record of Palaeozoic fluid-rock interaction imaged by magnetotellurics: K Selway, M Hand, G Heinsohn
1445h EIL08103L Geological nature of crustal electrical conductivity anomalies: I Rokityansky
1500h EIL08104L Tectonic evolution of accretionary prism in the arc-continent collision of Taiwan as imaged by broadband magnetotelluric transects: C Chen
1515h EIL08105L Electrical conductivity of the Fennoscandian upper mantle from electromagnetic mini arrays: T Korja, M Smirnov, L Pedersen
1600h EIL08106L Electrical structure of the mantle beneath Central Europe: Results of the CEMES project: V Semenov, W Jozwiak, A Adam, B Ladanyvskyy, I Logvinov, J Pek, P Pushkarev, J Vozar
1630h EIL08107L Magnetotelluric characterization of an outcropping salt-diapir (external betic range, Spain): M Rubinat, O Rosell, J Ledo, E Roca, J Bausa, A Carmona, E Falgas, M Marin, P Queralt
1645h EIL08108L Three-dimensional models for MT code testing: Preliminary results and comparison: M Miensopust, P Queralt, A Jones
1700h EIL08109L The use of ground- and down-hole electromagnetic techniques to localise deep-seated conductors: B Sandstrom, R Pantez
1715h EIL08110L Instrumentation for wide-band field magnetotelluric sounding – test results: V Korepanov, Y Klymnych, V Tregubenko

Wednesday 1400h
GEP-02 Maximising the value of fossil energy and mineral resources
1400h GEP02101L Challenges in the optimal management of remaining petroleum resources: F Al-Kasim
1430h GEP02102L oil and gas resources economic value in management decisions: A Gert, O Nemova, K Volkova, N Suprunchik
1500h GEP02103L Petroleum resources management in Norway: B Nyland
1600h GEP02104L Achieving a common global framework for classifying fossil energy and mineral resources through the development of the UN framework classification on fossil energy and mineral resources: P Blystad, C Griffiths
1630h GEP02105L A case study using project-based petroleum resource classification for government, industry and financial management: S Heiberg, P Blystad, L Michael, J Ross
1700h GEP02106L Petroleum resources of Canada: An emerging resources giant: K Osadetz, D Elliott

Wednesday 1330h
GEP-07 Petroleum geoscience on the frontier to mature basins of the Atlantic margins from Norway to Ireland
1330h GEP07201L Basin evolution at the Norwegian-Greenland conjugate margins in the NE Atlantic: J Faleide, F Tsikalas, A Breivik, R Mjelde, O Ritzmann, Ø Engen, J Wilson, O Eldholm
1400h GEP07202L Effect of local variations of vertical and horizontal stresses on the Cenozoic structuring of the mid-Norwegian shelf: I Grunnalleite, W Fjeldskaar, J Wilson, J Faleide, J Zweigl
1415h GEP07203L Automated thermotectonostratigraphic basin reconstruction – examples from the Norwegian and north sea: L Rupke, D Schmid, S Schmalholz, Y Podlachikov
1430h GEP07204L Tectonic evolution of the Rockall-Handle and Faroe-Shetland basins: E McAllister, M Norton
1500h GEP07205L Exploration efforts in the Faroe-Sound area: T Varming, H Ziska
1600h GEP07206L Norwegian Sea deepwater basin overview, play types and remaining prospectivity: M Seeger, R Ravnås, M Norton
1630h GEP07207L Opening a new exploration play with the 6302/6-1 Tulipan Discovery: A Helsen, L Aamodt, P Eliassen, R Lindgren, O Riese
1700h GEP07208L Exploring for Cretaceous and Cretaceous sands in deep Water offshore Norway, More basin: J Berry, K Hansch
1715h GEP07209L The HPHT Kristin field (Haltenbanken, Norwegian Sea) – its geology and surprises during early production: P Zweigl, T Blekastad, J Qin, K Christoffersen, O Hansen, A Zaostrovsky

Wednesday 1400h
GHZ-06 Landslide risks in fluvial systems
1400h GHZ06101L Landslide hazard assessment, vulnerability estimation, and risk evaluation: F Guzzetti, P Reichenbach, A Francesca, M Cardinali
1415h GHZ06102L Failure mechanism on landslide triggered by water at the three gorges reservoir: Y Yin

Poster presentations in Wednesday, day 1 symposia will be held on Thursday, day 2.
1430h GHZ06103L The value of historical satellite SAR archives in mapping instability phenomena at regional scale and understanding landslide reactivation after flood events: A Tamburini, C Giannico, F Novali, D Martelli, M Broccolato


1500h GHZ06105L Mass movement hazard in Poland: M Stefaniuk, D Ilcenezew-Stefaniuk, S Rybicki, T Slomka

1515h GHZ06106L Feature of the submarine landslides in the world: T Kaji, H Yamazaki, Y Kato

1600h GHZ06107L Deep river scours – a potential quick-clay slide trigger mechanism induced by human activity: G Vatne, A Beylich, K Fjelstad, T Krogstad

1615h GHZ06108L Landslide hazard assessment along Tagliamento River valley using optical fiber sensing technology: A Pasuto, K Fujisawa, G Marcato, K Higuchi

1630h GHZ06109L The Saltines quick-clay slide: An interdisciplinary study from Mid Norway: I Solberg, L Hansen, K Rokoengen

1645h GHZ06110L Reactivated large-scale landslides in Tarmaber district, central Ethiopian Highlands at the western rim of afar triangle: J Schneider, K Woldearegay, G Atsbah

1700h GHZ06111L Contribution of landslides and ordinary monsoon high flows to instantaneous hydro-geomorphic readjustments of gravel river channel and sediment fluxes: M Fort, G Arnaud-Fassetta, E Cossart

Wednesday 1400h

GHZ-08 Volcano flank instability: Causes, precursors and associated hazards

1400h GHZ08101L Numerical simulation of rapid and highly mobile landslides during intense precipitation: J Cepeda

1415h GHZ08102L The 1998 Casita volcano flank collapse and Lahar: An overview: G Devoli, J Cepeda, N Kerle

1430h GHZ08103L Interplay between magmatic activity and sector collapse illustrated by Planchon volcano (Andean southern volcanic zone) and Stromboli volcano (Neapolitan Arc): D Tormey, A Tibaldi, F Pasquare

1445h GHZ08104L Sector collapse of Aguilucho Volcano, northern Chile, caused by hydrothermal alteration: F Aguilera, B Godoy, S Ahumada, J Mercado

1500h GHZ08105L Flank instability assessment in Dominica: Lesser Antilles Arc: D Rust, R Teeuw, C Solana, C Dewdney

1515h GHZ08106L Copahue volcano activity and increasing population in Caviahue village (eastern flank), North Patagonia Andes: E Roovere, M Poscolieri

1600h GHZ08107L Discovery of a huge sector collapse at the resurgent caldera of Nisyros, Greece, by on land and offshore geological-structural data: F Pasquare, A Tibaldi, D Papanikolaou, P Nomikou

Wednesday 1400h

GSM-02 Geomorphology and landscape response to global change

1400h GSM02101L Why geomorphology matters in global environmental change: O Slaymaker

1430h GSM02102L Morava River flood plain sediments deposited during the last millennium: Climatic and anthropogenic record: J Kadlec, T Grygar, J Svetlik, V Ettler, M Mihaljevic, J Diehl, S Beske-Diehl

1445h GSM02103L Climatic change and El Niño-La Niña periodicity related to deforestation, land degradation and sustainable management in subtropical regions: J Busnelli, J Sayago, L Neder, M Collantes

1500h GSM02104L Spatially non-uniform landscape responses to late quaternary and present environmental changes in SE-Brazil (1): A Coelho-Netto, A Avelar

1515h GSM02105L Dynamics of the alpine permafrost as a possible response to global warming: Results from a 1986-2006 survey and interpretation of recent field observations (French alps): X Bodin, M Fort, E Thibert, D Fabre, P Schoeneich

1600h GSM02106L Glacial and paraglacial process in the semi arid of the Central Andes (29°S-30°S): Implication on the climate condition and the glacial denudation during the Late Pleistocene-Holocene: G Aguilar, R Riquelme, P Flores, P Lohe

1615h GSM02107L Climatic significance of glacier retreat and rock glaciers re-assessed in the light of cosmogenic dating, southern French Alps: E Cossart, M Fort, D Bourles, R Braucher, J Carcaillot

1630h GSM02108L Complexity in sand and loess deposition in north China evidenced by closely spaced optically stimulated luminescence dating: H Lu, J Mason, T Stevens, Y Zhou, Z Yali Zhou, S Yi, S Yi

1645h GSM02109L Changes in inorganic carbon storage and the potential capacity of sequestration of secondary carbonate in the deserts, with a special reference to the Badain Jaran Desert, western Inner Mongolia, China: X Yang, X Wang

1700h GSM02110L The geomorphological response of Dutch inland drift sand to changing wind regimes: P Jungerius, M Riksen, J van den Ancker

1715h GSM02111L Coastal regionalization of mexican coasts in response to global climate change: E Nava-Sanchez, G Martinez-Flores, J Murillo-Jimenez, L Godinez-Orta

Wednesday 1400h

GTN-01 General contributions to new methods and technologies – Part 1

1400h GTN01101L High-pressure high-temperature neutron diffraction of hydrous minerals: H Xu, Y Zhao, J Zhang, D Hickmott, L Daemen, S Vogel

1430h GTN01103L New method for 3-D size measurements of particles using image analysis: S Tafesse, J Fernlund, F Bergholm, M Arvidsson

1445h GTN01104L Zinc mineralization in north of Iran (GSI Exploration Zone): S Eskandari

Poster presentations in Wednesday, day 1 symposia will be held on Thursday, day 2.
1500h GT01105L Depletion zones of ore elements: A significant tool in mineral exploration: I Goldberg, G Abramson, V Los, V Nazarov

1515h GT01106L Multi-ring structures – new mapping techniques and their role in the mineral deposit localization: D Gurevich

1600h GT01107L Variation of internal sedimentological parameters by CT-Scan measurement during sediment transport: B Long

1615h GT01108L High resolution mapping for the management of the fluvial dynamics in intensely urbanized areas: S Morelli, S Segoni, M Kukvicic, F Catani

1630h GT01109L Twenty years of the “Sedrun” landslide: Evolution from analysis of ortho-rectified aerial photographs and comparison with field-work: J Kasperski, C Delacourt, P Allemand, P Potherat

1645h GT01110L Integration of microelectromechanical systems (MEMS) in wireless Ad-hoc sensor networks for landslide monitoring and early warning systems: T Fernandez-Steege, C Arnhart, A Kallash, R Azzam

1700h GT01111L Investigating the stability conditions of a high historical value cliff: G Gigli, G Bertolini, N Casagli, L Lombardi, F Mugnai

Wednesday 1400h

HPF-14 Major events in the evolution of terrestrial biota

1400h HPF14101L Hot spring ecosystems through time: Homes for endemics, hot spring specialists or widespread but pre-adapted generalists?: A Channing, D Edwards, A Zamuner, D Guida, P Moreira

1430h HPF14102L The oldest arboreal stromatolites: Records from the Mississippian of the Drummond Basin, eastern Australia: S McLoughlin, J Galtier, P Blake, R Mason, J Talent, G Webb, J Rolfe

1445h HPF14103L The Carnian (Late Triassic) flora from Lunz in Lower Austria: Plant diversity and palaeoecological considerations: C Pott, H Kerp, M Krings

1500h HPF14104L Diffuse co-evolution over geological timescales: Plants and non-avian dinosaurs: P Barrett, R Butler, P Kenrick, M Penn

1600h HPF14105L Timing of the Jehol Biota from Western Liaoning and Hebei Province, China: H He, Z Zhou, X Wang, R Zhu

1615h HPF14106L Early Cretaceous biological radiation in northeastern China and its paleoenvironmental implications: Z Zhou, X Wang

1645h HPF14107L A diverse vertebrate assemblage from Lower Cretaceous high latitude continental deposits at Lightning Ridge, southeastern Australia: B Kear

1715h HPF14108L Mesozoic terrestrial ecosystem from Pakistan: M Malkani

Wednesday 1400h

HPF-15 Mining the fossil record through geoinformatics

1400h HPF15101L The uniqueness of interglacial and glacial mammal assemblages in Eastern Europe and Northern Asia (the analysis of Paleofauna database): A Markova, A Puzachenko

1415h HPF15102L Quaternary Mexican mammals database: J Arroyo-Cabralés, Ò Polaco, E Johnson

1430h HPF15103L A database of South American Quaternary mammals for paleoecological analyses: E Lindsey, A Barnosky

1445h HPF15104L NEOTOMA – a multidisciplinary and relational database for terrestrial paleoecological datasets for the Pliocene, Pleistocene and Holocene: R Graham, E Grimm, A Ashworth, S Jackson, J Williams, B Bills

1500h HPF15105L Leaf area index and precipitation estimates from present and past communities of large herbivorous mammals: J Eronen, K Puolamäki, K Lintulaakso, A Miechels, A Gonsamo, M Fortelius, V Mosbrugger

1515h HPF15106L Using the fossil record to define natural biodiversity baselines in mammals: A Barnosky, M Carrasco

Wednesday 1400h

HPS-06 Milestones in Quantitative Biostratigraphy

1400h HPS06101L New trends in quantitative biostratigraphy: F Gradstein

1415h HPS06102L Benefits and pitfalls of quantitative biostratigraphy: Ø Hammer

1430h HPS06103L Depth interval scaling in RASC: F Agterberg, F Gradstein, G Liu

1445h HPS06104L A new graphic module for RASC quantitative stratigraphic software: G Liu, Q Cheng, F Agterberg

Wednesday 1400h

HYH-02 Groundwater resources and management – Part 1

1400h HYH02101L Hydrogeology and recharge periods of the unconfined and confined alluvial aquifers in Friuli-Venezia Giulia: G Franceschini, F Cucchi, L Zini, F Treu

1415h HYH02102L Hydrogeological and hydrochemical characteristics of alluvial groundwater and river water in the Nakdong River basin: S Hamm, J Cheong, J Lee, H Kim, S Lee

1430h HYH02103L The tendencies of hydrogeological mapping and problems of compiling maps of new generation: V Kurennoy

1445h HYH02104L Assessment of hydrogeochemical hazard and risk in the urbanized territories: I Galitskaya, I Pozdnyakova, L Toms

1500h HYH02105L Groundwater management under hydrogeologic uncertainty in an overexploited aquifer: N Mylopoulos, P Sidiropoulos

1600h HYH02106L Depleting ground water resources with an alarming rate in the great Thar Desert of India and an urgent need to check the uncontrolled exploitation of the ground water and to go for the artificial recharge in the region: B Paliwal

1630h HYH02107L Remote sensing and GIS approach in sustainable development and management of the ground water resources in semi-arid regions of the Thar Desert: T Sharma, N Kalra

Poster presentations in Wednesday, day 1 symposia will be held on Thursday, day 2.
1645h HYH02108L Groundwater conditions in hard volcanic rocks of Maharashtra state, western India: C Faillace
1700h HYH02109L Groundwater quality assessments in hard rock terrain: B Olofsson, J Mattsson
1715h HYH02110L Natural contamination of arsenic in groundwater of Korea: J Ahn, K Ko, C Chon

Wednesday 1400h
IEH-05 History of exploration of the polar regions
1400h IEH05101L Geology and geophysics of Antarctica: The early Australian story: D Branagan
1415h IEH05102L Michael K. Sidorov (1823–1887) and the north of Russia: E Minina
1430h IEH05103L The Austrian-Hungarian North Pole expedition (1872-1874): National euphoria and the associated place of science in advance of the planning of the expedition: M Klemun
1445h IEH05104L Fridtjof Nansen and Arctic geomorphology: G Hestmark
1500h IEH05105L Roald Amundsen among the magneticians: G Good
1515h IEH05106L Vladimir Alexandrovich Rusanov – famous investigator of Arctic: T Ivanova

Wednesday 1430h
IES-01 General contributions to geoheritage and society
1430h IES01102L Geodiversity: Developing the paradigm: M Gray
1445h IES01103L Landscape and geoheritage: A starting point for popularising geoscience: M Centineo, R Pignone
1500h IES01104L The Role of geodiversity in urban regeneration: A local example from Cheshire, UK: C Burek, M Hope
1515h IES01105L DPSIR, soil functions and the landscape hierarchical model, tools for integrating geodiversity in spatial planning; the river valley as an example: J van den Ancker, P Jungerius
1600h IES01106L From information and education to conservation: Promoting/protecting geological heritage in the Belgian province of Limburg: R Dreesen
1615h IES01107L Strategic goals of movable geological heritage protection: A Maran
1630h IES01108L Natural hazards and anthropogenic threats in natural reserves along the Romanian Black Sea coast and the River Danube (Dobrogea): A Seghedi, G Oaie, A Stanica
1645h IES01109L Ice margin landscape forms for geotourism: Two routes in Lithuania: R Guobys, G Škrilaitė, D Snareskiene
1700h IES01110L Geological heritage of the Kvarken Archipelago: O Breilin, P Edén, A Kotilainen, J Ojala, P Sipla
1715h IES01111L The Förrnia reculée: An international Quaternary geoheritage: M Rodrigues

Wednesday 1400h
MAG-04 Scales, scaling, non-linearity and complexity in the geosciences
1400h MAG04101L Fractal invariable distribution and its application in large-sized mineral deposits: W Shen, H Du
1415h MAG04102L Scaling properties of the turbidite bed thickness: S Stanova, J Soták
1430h MAG04103L Porous media microstructure reconstruction using pixel-based and object-based simulated annealing: A Diogenes, C Appoloni, L dos Santos, C Fernandes
1445h MAG04104L The digital characteristics of the granitoid and its implications for Pb-Zn-Ag mineralization in the Jinla poly-metallic ore field across China and Myanmar: Y Chen, J Huang, H Liu, P Zhao
1500h MAG04105L The concept of turbulence and complex systems in solids: Chaos, attractors and fractals: B Sim, F Agterberg, H Russell, D Sharpe
1515h MAG04106L Omnibus weights of evidence method implemented in GeoDAS GIS for information extraction and integration for prediction: S Zhang, Q Cheng
1600h MAG04107L Cascade modeling of element concentration values in rocks and mineral deposits: F Agterberg
1615h MAG04108L Power-law and log-periodic changes in precursory phenomena prior to large earthquakes: Y Kawada, H Nagahama, Y Yasuoka, Y Omori, T Ishikawa, S Tokonami, M Shinogi
1630h MAG04109L The application of CNN and its local activity theory to exploring some complex phenomena in hydrothermal Ore-forming processes: D Xu, Q Cheng, C Yu
1645h MAG04110L Bini-paradigm of the earth and Nature structure: Y Papin
1700h MAG04111L Quantitative fabric analysis of experimentally deformed volcanic rocks: A Gerik, Y Lavallée, J Kruhl

Wednesday 1400h
MRB-01 General contributions to industrial mineral deposits
1400h MRB01101L Ruby-sapphire bearing skarn from Quy Chau-Quy Hop area, Nghe An Province, Vietnam: X Vo
1415h MRB01102L Characteristics and formation of the potash deposits in Lop Nur salt lake, Xinjiang, China: C Liu, M Wang, P Jiao, Y Chen
1430h MRB01103L Geology and exploration of shallow potash reserves: R Farhadi
1445h MRB01104L Geochemistry of colemanite deposit of Kestelek, Bursa, Turkey: S Koc, O Kavrazli, I Kocak
1500h MRB01105L Mineralogical study of around Sarayan city bentonite reserves and assessment of their industrial applications – southern khorasan province – east of Iran: E Elahpour

Poster presentations in Wednesday day 1 symposia will be held on Thursday, day 2.
1515h MRB01106L Development status and suggestions of Yunnan copper industry, China: Y Wu, W Fang, R Han

1600h MRB01107L Material properties of rock salt and its formation in the context of Excess Mass Stress Tectonics – EMST: S Phillips, T Sasso

Wednesday 1400h

MRD-10 Large ore provinces of Central Asia

1400h MRD10101L Large ore provinces of central Asian supercollage: A Yakubchuk

1430h MRD10102L The super-large Kurama porphyry-epithermal gold province (Middle Tien Shan): Key deposits, magmatic and hydrothermal activity age, mineralogical and fluid regime features: V Kovalenker, I Chernyshev, O Plotinskaya, V Proko'ev, R Koneev

1445h MRD10103L Bog iron ores of western Kazakhstan: Z Bekmukhametova, A Bekmukhametov, B Uzhenkov

1500h MRD10104L Gold and rare metal deposits formed during Triassic in central Asia, NW China: Y Zhu

1515h MRD10105L The central Kyzylkum auriferous province: B Isakhodzhaev, I Turumuratov

1600h MRD10106L Gold-REE Aktiuz-Boordo mining district, northern Tien Shan, Kyrgyzstan: R Djenchuraeva

1615h MRD10107L Au-Cu black shale formations in the Asian part of Russia: V Starostin

1630h MRD10108L Alkaline magmatism and rare metallic ore-bearenness: M Bekzhanov, K Abdakhmanov

1645h MRD10109L Shu-ili gold-bearing ore belt in Kazakhstan: Systematization and evaluation of gold deposits: M Rafailovich, V Los

1700h MRD10110L Tectonic framework of late Paleozoic and the correspondent poly-metallic mineralization in the northern Xinjiang western Tianshan Mts., NW China: Z Zhang, Z Wang, G Zuo, M Liu

1715h MRD10111L Suture zones and large ore deposits of the Central Asia: Geological position, metallogenetic specialization, forecast and exploration criteria: O Fedorenko, B Uzhenkov, M Rafailovich, A Smirnov, V Krasnoboordin, I Golovanov, R Maksumova, V Nikonorov

1730h MRD10112L Mineralization of gold deposits in Bainaimiao area, inner Mongolia, China: j Li, H She, C Feng

1745h MRD10113L Rare metallic acid magmatism of the Uzbekistan: A Khudzhanov, U Mamarozikov, S Saidganiev

1445h MRD11103L Proterozoic metallogeny of the Ladoga region in Karelia: K Sundblad, V Ivashchenko, T Lehtila

1515h MRD11104L Two stages of the Fedorov deposit and associated PGE mineralization formation: isolate U-Pb data on zircon (Kola Peninsula): E Niltina, T Bayanova, F Acad. Mitrofanov

1600h MRD11105L Timing of orogenic gold mineralization in southern Finland and its relationship to the Palaeoproterozoic Svecofennian tectonic evolution: K Saalmann, I Mänttäri, P Petlonen, M Whitehouse

1630h MRD11106L Titanium ore-forming processes and titanium provinces at the southwestern margin of the Fennoscandian Shield: A Korneliussen, P Ihlén

1700h MRD11107L Russian Fennoscandia metallogeny: F Mitrofanov, A Golubev

1730h MRD11108L Epigenetic REE-U-Th-anomalous Fe oxide mineralisation in the Narken area, NE Sweden: E Jonsson

Wednesday 1345h

OSP-01 General contributions to marine geoscience & paleoceanography

1345h OSP01101L Paleoceanography: Geochemical tracers of past Oceans: M Delaney, H Scher, C Chun

1430h OSP01103L Diagenetic degradation in marine sediments: consequences for the preservation and interpretation of proxies: G De Lange, C Slomp, J Thompson, D Crudeli, F Pahl, A Ferreira, J Sinninghe-Damste, J Middelburg, K Zonneveld, G Versteegh, C Huguet, S Schouten

1445h OSP01104L Novel high temperature and pressure chemical sensor assemblage for investigation on deep sea and mid-ocean-ridge: R Zhang, X Zhang, S Hu

1500h OSP01105L Trace metal enrichment through Setúbal-Lisbon Canyon and the adjacent continental shelf (Portuguese Margin): Links to sediment transport and accumulation: C Jesus, H de Stigter, W Boer, P Miranda, F Rocha, A Oliveira

1515h OSP01106L The Powell basin oceanic spreading and sedimentary filling during Scotia Arc development (Antarctica): J Rodriguez Fernandez, J Calindo-Zaldivar, A Schneider, E Surinach, F Bohoyo, A Maldonado

1600h OSP01107L Western Pacific marginal seas in glacial cycles and their global impact: P Wang

1630h OSP01108L Sedimentary records as proxy of continental shelf evolution in association with river inputs: F Prudêncio Rosa, J Alveirinho Dias, I Mendes, O Ferreira

1645h OSP01109L Distribution, morphology, and acoustic characterisation of a gas pockmark field on the malin shelf, NW Ireland: X Montey, D Hardy, E Doyle, S Garcia-Gil

1700h OSP01110L New discoveries, semi-automated mapping and seabed exploration. The Irish national seabed survey and INFORMAR projects: K Verbruggen, S Cullen, X Montey, A Donovan, T Furey

Poster presentations in Wednesday, day 1 symposia will be held on Thursday, day 2.
Wednesday 1400h

STN-02 Neotectonics and stress state in formerly glaciated regions

1400h STN02101L Slip-rate variations on active faults caused by glacial-interglacial changes in ice and water volumes on Earth’s surface: A Hampel, R Hetzel, H Turpeinen, T Karow, G Maniatis, A Densmore

1430h STN02102L The crustal stress field during glaciation and its relation to fault stability: Application to the Scandinavian endglacial faults: B Lund, M Zoback

1445h STN02103L The ‘opposite of tectonics’: How deglaciation drives a different ‘dystectonic’ style of high latitude seismogenesis: R Muir-Wood

1500h STN02104L Change in geodynamics in Scandinavia over short geological time scale from ice age to present time: S Gregersen, P Voss

1515h STN02105L Seismological studies of the Pärwie endglacial fault system, northern Sweden: E Karlsson, B Lund, C Juhlin, M Dehghannejad

1600h STN02106L Rapid ice mass loss: Does it have an influence on earthquake occurrence in southern Alaska?: J Sauber, N Ruppert, R Musket, B Molnia

1630h STN02107L GOCE gravity satellite constraints on thermomechanical models of the shallow Earth: B Vermeerseus, H Schotman, P Wu, M Drury, H de Bresser

1645h STN02108L Peculiar low-magnitude seismicity beneath David Glacier, Antarctica: S Danesi, A Morelli, S Bannister

1700h STN02109L Hydraulic fracturing stress determinations in the ANDRILL South McMurdo Sound Drill Hole: D Schmitt, T Wilson, R Jarrard, P Paulsen, S Pindur, D Grelle, D Hatzberger, T Wonik, A the SMS Science Team

1715h STN02110L Stress regime and neotectonic deformation in a glaciated rift system, Antarctica: T Wilson, T Paulsen, R Jarrard, D Schmitt, S Henrys, M Willis

Wednesday 1400h

STT-01 General contributions to tectonics and structural geology – Part 1

1400h STT01101L The deformation history of synorogenic foredeep basins and its bearings on orogenic dynamics: A view from SW Tuscany, Northern Apennines, Italy: E Tavarnelli

1430h STT01102L Tectonic evolution of Northern Patagonia (36°–48°S) through the inception of shallow subduction regimes from Late Cretaceous to Paleogene times: A Folguera, V Ramos

1445h STT01103L Structure of the Lengguru fold-and-thrust belt, New Guinea Island: Consequence of rapid kinematic changes: V Bailly, M Pubellier, J Ringenbach

1500h STT01104L Caledonian structural development of the Oslo region, Norway: R Gabrielsen, B Larsen

1515h STT01105L Numerical modeling on the tendency of collision between the Pamir – west Kunlun tectonic system and the west Tienshan one: Z Qiu, H Li, J Si, J Pan

1600h STT01106L Fault displacement rates over different timescales: V Mousoupoulou, J Walsh, A Nicol

1630h STT01107L Reconstruction of Kuhbanan fault system since late Pliocene, west of Bahabad, central Iran: A Shafiei Bafti, M Shahpasandzadeh, F Iranmanesh

1645h STT01108L Basin inversion – local compression during regional extension: O Graversen

1715h STT01109L Tectonic evolution of the Levantine Area since the Mesozoic – Lebanese sector: M Mroueh, C Homberg, E Barrier, G Aoun, H Jaafar, R Hamzeh, C Muller, F Hijazi, W Hamdan

1730h STT01110L Response of normal faults to mass redistribution on Earth’s surface due to erosion and sedimentation: G Maniatis, D Kurfeß, O Heidbach, A Hampel

Poster presentations in Wednesday, day 1 symposia will be held on Thursday, day 2.
# Wednesday 6 August – Late Afternoon

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The following symposia begin in this session. Some symposia continue on the next day. Next day presentations may be found in the next day section.

### Wednesday 1615h
- **GSM-03 Karst as a global phenomenon – a tribute to Derek Ford and Paul Williams – Part 1**
  - 1615h GSM03101L Proposed new karst reserves in the arctic and sub-arctic Northwest Territories of Canada: D Ford
  - 1645h GSM03102L A review of UNESCO World Heritage karst landscapes and caves: What more needs to be done?: P Williams
  - 1715h GSM03103L Speleogenesis and karst landform development in central Scandinavia: An overview: S Lauritzen

### Wednesday 1600h
- **HPF-16 Correlation between marine and terrestrial ecosystems**
  - 1600h HPF16101L New U-Pb age constraints for terrestrial sediments in the Late Triassic: Implications for faunal evolution and correlations with marine environments: R Mundil, R Irms
  - 1615h HPF16102L Correlation between marine and terrestrial events across the Triassic-Jurassic boundary in the Danish Basin: S Lindström, K Dybkjær, B van de Schootbrugge
  - 1630h HPF16103L Upper Triassic to lowermost Jurassic conchostracan zonation of the Newark Supergroup and its correlation with the marine scale: The CAMP volcanism straddles the Triassic-Jurassic boundary (TJB): H Kozur, R Weems
  - 1645h HPF16104L Terrestrial and marine correlation and climate change of Jurassic – Cretaceous boundary strata: S Lindström, M Erlström
  - 1700h HPF16105L Climatic evolution of Cretaceous to Tertiary from northern Iraq: Implications from clay mineralogy and foraminiferal assemblages: A Al-Juboury
  - 1715h HPF16106L Land-sea correlation elucidating the spatial variability of the 4 kyr B.P. impact event from the submicron to the global level: M Courty, M Mermoux, D Smith, M Thiemens, X Crosta, N Fedoroff, T Ge, F Guichard, K Grice, P Greenwood

### Wednesday 1600h
- **IEH-03 Myth and geology**
  - 1600h IEH03101L The fall of Phaethon: Does this myth reflect an impact (“Chiemgau Impact”) in Bavaria during the Celtic period?: B Rappenglueck
  - 1615h IEH03102L Preemptive seismic acoustic emissions: An informative mythic model of audible events in ancient Arizona earthquakes: M Sabom Bruchez
  - 1630h IEH03103L The geomythology of pipestone and its implications for geoscience education: J Wandersee, R Clary
  - 1645h IEH03104L Sea volcanism in sicily and mediterranean myths through the tempest of Shakespeare: T Lanza
  - 1700h IEH03105L Reconstructing the eruptive history of Kilauea volcano from myths of the Hawaiian volcano goddess pele: W Masse

### Wednesday 1600h
- **MPC-01 General contributions to geochronology and isotope geology**
  - 1600h MPC01101L Radiometric age determination on fault rocks with regard to disposal of nuclear waste: H Ito, S Takahashi, T Fukuchi, D Tanaka
  - 1615h MPC01102L Tectono-thermal evolution of the Atlas system – insights from Raman spectroscopy of carbonaceous material and low-temperature thermochronology: F Negro, G Ruiz, J Schae
  - 1630h MPC01103L Method for measurement of Ar isotopes in He stream (conflo) for K/Ar geochronology: S Budnitskiy, A Ignatiev, T Velivetskaya
  - 1645h MPC01104L Hf-isotope constraints on contrasting magma sources in economic and non-economic ultramafic-mafic intrusions of the Noril’sk area (Russia): Evidence from zircon: K Malich, E Belousova, W Griffin, N Pearson, V Khamen
  - 1700h MPC01105L U-Pb dating and Hf isotope analysis of zircon from very young magmatic rocks at the axial valley of the Mid-Atlantic Ridge: Y Kostitsyn, E Belousova, N Bortnikov, T Zinger, E Sharkov
  - 1715h MPC01106L Geological and Geochemical Features of Akkaya Celestine Mine from Tertiary Sivas Basin, Turkey: C Sahin, A Ucurum

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Poster presentations in Wednesday, day 1 symposia will be held on Thursday, day 2.
Thursday 7 August – Early Morning

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<th>Session code</th>
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The following symposia begin in this session. Some symposia continue on the next day. Next day presentations may be found in the next day section.

Thursday 0830h
AAA-01 Paleogeographic evolution of the Arctic region during the Phanerozoic – Part 2
0830h AAA01210L Phanerozoic paleoenvironment and paleolithofacies maps of the Arctic region: J Golonka
0900h AAA01211L The post-caledonian geological development of svalbard and the western barents sea: D Worsley
0915h AAA01212L Basin configuration and distribution of Triassic delta lobes in the northern barents sea: T Hoy, B Lundschienn
0945h AAA01214L Micropaleontological evidence of changing paralic environments in Mesozoic deposits of the Barents Sea area: S Hess, J Nagy
1030h AAA01215L The expression and significance of 2nd order sequences in the Arctic region: B Kilner, J Etienne, A Davison, A Messer, P Sharland, M Simmons, O Sutcliffe
1045h AAA01216L The tectonic driver of the Paleocene “2nd order” sequence boundary in Arctic sedimentary basins: R Stephenson, S Nielsen
1100h AAA01217L Middle Triassic sequence stratigraphy and depositional history, Sverdrup Basin, Canadian arctic islands: A Embry
1115h AAA01218L Sediment provenance of Mesozoic sediment in the Sverdrup basin, Arctic Canada: J Omma, R Scott, V Pease, A Embry, A Morton
1130h AAA01219L A detrital zircon study of Lower Cretaceous sediments from North Greenland, Svalbard and Arctic Canada: T Rohr, T Andersen, H Dypvik
1400h AAA01221L Sedimentary basins of the Siberian Arctic continental margin: Tectonics, structure and petroleum geology: S Drachev
1430h AAA01222L The tectonic history of the Kara and eastern Barents shelves – A key to Baltic-Siberia relationships: H Lorenz, D Gee
1500h AAA01224L The Carboniferous (Tournaisian-Bashkirian) of northern Novaya Zemlya, Russian Arctic: G Larsen, L Stemmerik

1515h AAA01225L Composition of Novaya Zemlya’s pre-mesozoic sedimentary cover and evolution of the Kara Paleobasin: A Kalenich, A Morozov, G Ivanov
1600h AAA01226L Tectonic and paleogeographic evolution of the Beaufort rift shoulder, Arctic Alaska: D Houseknecht, K Bird
1615h AAA01227L Structural-tectonic evolution and petroleum systems of the Chukchi Shelf as interpreted from long-offset ArcticSPAN 2-D seismic data: M Dinkelmann, J Granath, N Kumar
1630h AAA01228L Escape Tectonics and the extrusion of Alaska: Past, present, and future: T Redfield, D Scholl, P Fitzgerald, M Beck
1645h AAA01229L A Paleozoic northwest passage: on the Arctic origins of some cordillera terranes and the Pre-mesozoic evolution of the western margin of Laurentia: T Colpron, J Nelson
1700h AAA01230L Aurora Borealis – European research icebreaker and drilling vessel for post-IPY polar research: N Biebow, L Lambke-Jene, M Kunz-Pirrung, J Thiede, P Eggert
1715h AAA01231L Paleogeographic and tectonic evolution of the Arctic region during the Paleozoic: L Lawer, A Grantz, L Gehagan

Thursday 0830h
AMS-02 New research in Andean tectonic evolution
0830h AMS02201L A global parametric study to explain the non-collisional origin of the Andes mountain belt: W Schellart
0900h AMS02202L Tectono-sedimentary evolution of intramountain Pleistocene Basins in the Central Colombian Andes: G Gorin, F Guarin, R Neuberth, F Suter
0915h AMS02203L Timing and structural evolution of an accretionary orogen, northern Andes: C Vinasco, M Weber, U Cordani, M Giraldo, D Garcia
0930h AMS02204L From steady-state to climatically driven denudation across the Central Andes – SE Peru: g ruiz, P andriessen, p van heiningen
0945h AMS02205L Latest Tremadocian – earliest Dariwiliian (Early-Mid Ordovician) metamorphism in the Argentine precordillera: G Albanesi, G Voldman, V Ramos
1030h AMS02206L Structural and tectonic evolution of the Argentine Andes at 34°15’S latitude: J Mescua, V Ramos
1045h AMS02207L Arc migration due to variations in the Wadatti-Benioff zone: A new perspective: M Spagnuolo, A Folguera
1100h AMS02208L Andean orogenic collapse at 38°-40°S as a combination of negative roll back velocity and oblique convergence: E Rojas Vera, A Folguera, M Gimenez, F Ruiz, P Martinez

AMS02209P The Lithosphere of South Peru: A result of the accretion of allochthonous blocks during the Mesoproterozoic: V Carlotto, G Carlier, J Cardenas
AMS02210P New ages and geochemical data for Gorgonia Island, Colombia: Indication of a ~30 Ma long
Thursday 0800h
ASI-01 Geodynamic evolution of Asia – Part 2
0800h ASI01209L The latest carboniferous through Permian orogenic processes of Chinese Tianshan mountains: Evidence from structural deformation and Ar-Ar geochronology: J Li
0815h ASI01210L Regionalization of recent tectonic stress field in China and strong earthquakes: F Xie, X Cui, H Zhang, Y Du
0830h ASI01211L Relationship of the large-scale mineralization happened with the dynamic evolution process of Lithosphere in China continent: R Qiu, J Deng, S Zhou, T Li, X Chen, C Yuan, J Han, L Wang, Z Chen, Y Chen, D Liu
0845h ASI01212L Geodynamics of India as key to reconstruction of south Asia: B Bandypadhyay, G D.
0915h ASI01213L Ophiolite of Manipur, NE India: An active continental margin ophiolite in the tectonic framework of the Indo-Myanmar ranges: I Soibam, M Khuman
0930h ASI01214L Magmatic Evolution of the Chagai Arc, Balochistan, Pakistan: R Siddiqui, M Khan, M Jan
0945h ASI01215L Emplacement of cretaceous radiolarites in Neo-Tethyan sistan ocean, eastern Iran: S Babazadeh
1030h ASI01216L Some thoughts on the exotic Permian limestone blocks in the Yarlung Zangbo suture zone, southern Tibet: X Jin
1045h ASI01217L Paleolandscapes and geological events in middle paleozoic of Siberia: V Krasnov, V Dubatolov, T Pegel
1100h ASI01218L Scales of lateral movements of terrains in Siberia: V Staroseltev, K Staroseltev
1115h ASI01219L Tectonic evolution of northeast Russia in Paleozoic: I Pospelov
1145h ASI01220L Changed paleo-stress field in Korean peninsula at the upper Cretaceous times: B Lee
1400h ASI01221L Magma-tectonic relationship during the exhumation of metamorphic core complex – an example from Liaonian Metamorphic Core Complex, NE China: M Ji, J Liu, L Hu
1415h ASI01222L Columbia supercontinental events in northwestern China: H Li, S Lu, Z Xiang
1430h ASI01223L Geochemical evidence for plate-riift processes during assembly and breakup of Rodinia in South China: Y Zheng, R Wu, S Zhang
1445h ASI01224L Thinning of hot Indian lithosphere and apparent geodynamical consequences: D Pandey
1500h ASI01225L Numerical modeling on the subduction of Western Pacific Plate to Eurasian Plate: G Zhu, Y Shi, S Chen

Thursday 0830h
ASI-07 The Himalayas and neighbouring regions
0830h ASI07201L The evolution of Himalayas and tectonic framework: A Sinha
0900h ASI07202L Great Himalayan earthquakes and conceptual tectonic models: J Kayal
0915h ASI07203L Active deformation measurements in Manipur: A Kumar
0930h ASI07204L Characterization and formation mechanism of the central uplift of the Qiangtang Basin: F Yin
1030h ASI07206L Permo-Carboniferous history of Gangdese (Transhimalaya) in southern Tibet: From passive marginal rifting to island arc: Q Geng, G Pan, L Wang, Z Liao
1045h ASI07207L Petrogenesis and mineralization of chert formation and SiO2-rich Hydrothermal fluids in south Tibet, (China): Y Zhou, W Fu, Z Yang, F Nie, J He, W Li, W Zhao
1100h ASI07208L Research on heterogeneity and dynamic genesis of the present tectonic stress field in Xinjiang area: H Zhang, F Xie, X Cui
1115h ASI07209L Evolution characteristics of Quaternary tectonic stress field in the north and east margin of Qinghai-Tibet Plateau: F Xie, S Zhang, S Dou, X Cui, S Shu
1130h ASI07210L Some new advances concerning the continental dynamics of the Himalaya -Tibet Plateau during the beginnings of the Century: a Report on the main result of 1: 250000 regional geological survey in Tibet Plateau: F Xie
1145h ASI07211L Stress field in the western Himalaya with special reference to the 8 October 2005 Muzaffarabad earthquake: P Nemalikanti, K Gahalaut
1400h ASI07212L Geodynamics of the India-Eurasia plate collision in the eastern Himalaya from high resolution mapping of the lithospheric architecture: R Mangalampally, P Kumar, A Singh
1415h ASI07213L Where is the oldest northern margin of the Tibetan plateau? New constraints on the early uplift history of the Tibetan plateau: C Wang, X Zhao, Z Liu, P Lippert, S Graham, R Coe, H Yi, L Zhu, S Liu, Y Li
1430h ASI07214L Spatiotemporal evolution of Himalayan denudation: R Thiede, T Ehlers
1445h ASI07215L Bamiyan buddhas and Band-e-Amir phytorems lakes under the Hindu Kush sismicity influence: The E-W herat fault versus N-S 50 km deep moho isopach line: F Bourrouilh-Le Jan
1500h ASI07216P Higher Himalayan Crystallines as the major source rocks for Ganga river sediments: Evidence from the geochemical study of Floodpalin sediments: A Shaik
ASIO7217P Paleoseismic studies in Alaknanda Valley, Uttarakhand Himalaya, India: S Sati
ASIO7218P Platform carbonates distribution in the Tournaisian-Middle Visean of Iran: K Khaksar
ASIO7219P Earthquake risks in quetta and surrounding regions, Balochistan, Pakistan: D Muhammad
ASIO7220P Eastern margin of the Tibetan plateau: a window to probe the complex geological history from the Proterozoic to the Cenozoic: Q Yan, Z Yan, Z Wang, T Wang, Z Xiang
ASIO7221P The division of tectonic units of the Qinghai-Tibet Plateau and its adjacent regions: G Pan, Y Zhuang, G Zhai, L Wang
ASIO7222P The tectonic evolution of basement in South China Sea since late Paleozoic era: H Liu
ASIO7223P Bio-lithostratigraphy of Cretaceous system in the pol-e-zoghali section (road of chalus), Central Alborz, North Iran: E Yarijoo, B Hamidi, S Vaziri
ASIO7224P Gangdise island arc orogenesis of late Paleozoic to Mesozoic in Tibet: L Wang, G Pan, D Zhu, C Zhou
ASIO7225P Space-time distribution of the Mesozoic-Cenozoic volcanic activities in the Liao-Meng Geotraverse, China: J Shao
ASIO7226P Basin- and mountain-building dynamic model of tri-ramping-detachment-compression in the West Kunlun-southern Tarim basin margin: C Jun-Wen, L Peng-Wu, G Xian-Pu, D Xiaoizhong, T Zhe-Min
ASIO7227P 40Ar/39Ar Ages of the metamorphic rocks and basalts in Ejrou area of Shuanghu, northern Xizang and its significance: Y Zhang, L Wang, G Pan, D Zhu
ASIO7228P Ages and tectonic significance of the granite porphyries in the Lhunzhab basin, Tibet, China: G Zhai, L Wang, G Pan, D Zhu
ASIO7229P Paleoenvironmental changes in the deposition of Early-Middle Triassic sediments in the Thakola area, central Nepal Himalayas: K Yoshida, A Yamamak, T Kawamura, S Suzuki, M Dhit
ASIO7230P Re-Os ages form Jiama and Zhibula polymerical deposits in Southern Tibet: Implication to the genesis for skarn-type polymerical deposits: G Li, B Liu, W Qu
ASIO7231P Distributing inhomogeneity of helium isotope of CO2 degasification point and its geotectogenesis in southwest of China: L Shen, D Yuan, T Ding
ASIO7232P Structural characteristics of the Fanjishan metamorphic core complex, eastern Guizhou province (China): Controlling the mineralization of Au, Cu, and Pb-Zn deposits: C Dai, M Wang
ASIO7233P Geohazards and their mitigation: India’s plans: S Kottapalli
ASIO7234P Magnetic characteristics of the surface sediments in the Okinawa trough and their relationships to sedimentary environment: P Li, P Li

0845h CCC04202L The uplift of Tibet and the mountains of central Asia above the Snowline, their ice age glaciation and influence on the Pleistocene climate change: An overview with new results from 2003 to 2008: M Kuhle
0900h CCC04203L Low-frequency temperature variability from a millennial pine chronology in coastal north Norway: A Kirchhefer, G Young, N Loader, D McCarroll, B Gunnarson
0915h CCC04204L Plate tectonics and insolation: The potential relevance of a changing continental geometry to PETM paleo-albedo: T Redfield, M Smethurst, R Watson
0930h CCC04205L Cold aspects of Neogene and Pleistocene warm climates: P Smolka
0945h CCC04206L Holocene glacier fluctuations in Norway: Evidence for a climatically unstable early Holocene, contracted mid-Holocene glaciers and multiple Neoglacial events: A Nesje, J Bakke, S Dahl
CCC04207P The connection between geomagnetic secular variation and climate changes in Eastern Europe during Holocene: V Bakhmutov
CCC04208P Marine diamicton of the Barents Sea: paleoceanographic and paleoclimatic implication: S Sloistov

Thursday 0800h
CGC-04 Neoproterozoic ice ages: Quo vadis? – Part 2
0800h CGC04210L Marinoan glaciation in the Siberian craton: Locality, erosional forms, deposits and constraints to age: J Sovetov
0815h CGC04211L Revised tectonostratigraphy of Oman’s Neoproterozoic glacial record: E Le Guerroue
0830h CGC04212P Cap carbonate and diamictic facies relationships in the Neoproterozoic Kingston Peak Formation, Death Valley, California, USA: C Partin, M Kennedy
0845h CGC04213L The stratigraphy of the Ediacaran volcano-sedimentary Picada das Graças Alloformation (Bom Jardim Allogroup) at Lavras do Sul, southernmost Brazil: A diamictite-limestone association: T Ferro, A Uutela
0900h CGC04214L The Neoproterozoic successions of the São Francisco Craton and their glaciogenic units in the Bambui/Una and in the Vaza Barris/Miaba groups: A Misi, K Azmy, A Sial, J Guimarães, F Oliveira
0915h CGC04215L How many Neoproterozoic glacial events does the diamictite-rich Macaúbas group record?: A Pedrosa-Soares, M Babinski, C Noce, M Martins

Thursday 0830h
EGC-06 Geochemical proxies of palaeoenvironmental change in terrestrial environments
0830h EGC06201L Tracking Holocene climate change using peat bog stable isotopes: T Daley, F Street-Perrott, N Loader, K Barber
0900h EGC06202L Variability of the east Asian monsoon during mid-Holocene: F Yu, Y Zong, J Lloyd, M Leng, A Lamb

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium's oral presentations.
0915h EGC06203L Organic iodine as a biomarker for biomass burning in the speleothem palaeorecord: P Wynn, J Brocks, P Treble

0945h EGC06204L Human impact recorded in intertidal sediments in Moreton Bay, South East Queensland: G Morelli, M Gasparon

1030h EGC06205L Biomarker and carbon isotope variation in coal and fossil wood of central Europe through the Cenozoic: A Bechtel, R Sachsenhofer, A Lücke, W Püttmann, R Gratzer

1100h EGC06206L New global maps of δ13C values of terrestrial biomass from 21ka BP to present: T Daley, F Street-Perrott, R Fraser

EGC06207P Geochemical composition of Lake deposits as signatures of climatic changes during Holocene in Southern Siberia area: M Kulkova

EGC06208P Environmental record in the Maastrichtian paleosols and dinosaur remains from the Hateg basin, South Carpathians: evidence from stable isotope distribution and mineralogy: A Bojar, F Ottner, D Grigorescu, H Bojar, C Zoltan

EGC06209P Geochemical characteristics of tephra and loess in Tottori prefecture, western Japan: Implication for the contribution of aeolian dust to sediments in Japan: Y Yokoo, Y Tanaka, T Naruse

EGC06210P Lake sediments geochemistry in a tropical karst environment: S Oliveira, S Saia, D Favaro, L Pessenda, S Gouveia, L Leone

EGC06211P Micropaleontology and isotope records from mid-Cretaceous organic-carbon-rich lacustrine sediments in Songliao Basin, northeast China: X Wan, Q Huang

EGC06212P Monitoring environmental changes by investigation of stalagmites and drip waters in caves: Z Siklosy, A Demeny, S Pilet, S Leel-Ossy, M Virag

EGC06213P Seasonal records of palaeoclimatic change in recent and late Quaternary laminated tufas: J Andrews

EGC06214P Speleothem archives in their biogeochemical context: I Fairchild, P Wynn, A Baker

EGC06215P Stable isotopes in land snails and their environmental implications: Z Gu, N Wu, X Sun, B Xu, Y Lu, Y Chen

Thursday 0830h
EID-01 General contributions to deep Earth

EID01201P Velocity structure in west of Iran: Z Riaziard, Z Riaziard

EID01202P New conception of inner structure of the Earth: A Abeuov

EID01203P Seismic models and results of deep drilling at the Fennoscandinavian shield: F Gorbatsevich, N Sharov

EID01204P New revision of the previously revealed mantle transition layer at the depth of 795-1505 kilometers: I Kerimov, N Akhmadov

Thursday 0830h
EID-10 Phase transformations in the Earth’s interior

0830h EID10201L Constraints from transition-zone discontinuity properties inferred from seismic data on the hydration state of the transition zone: S van der Lee

0900h EID10202L Seismic anisotropy in the lowermost mantle and the perovskite – post-perovskite phase transition: J Kendall, J Wookey

0930h EID10203L Seismic observations of phase transitions in the Earth’s mantle: A Deus, J Andrews

1030h EID10204L Silicate liquids in planetary interiors: L Sisirude, B Karki, M Mookherjee, N de Koker, S Ni

1100h EID10205L Carbonate stability as a function of oxygen fugacity in the deep Earth: D Frost, V Stagno

1115h EID10206L Kinetics of the olivine-wadsleyite transition from time resolved synchrotron XRD: J Perrillat, J Daniel, N Bolfan-Casanova, M Chollet, G Morard, M Mezouar

1130h EID10207L Determining the position of the spinel – post-spinel transition in Fe3+O2: First results: K Schollenbruch, A Woodland, D Frost

1400h EID10208L Development of multianvil high-pressure technology with sintered diamond anvils and phase transitions in pyrolyte under the lower mantle P-T conditions: T Irifune, T Shinmei, Y Tange, T Sanehira, K Funakoshi, C McCannon, N Miyajima, D Frost, D Rubie

1430h EID10209L Phase relations, crystal chemistry and elasticity of perovskite and post-perovskite in CaIrO3-based analogue systems: R Trones, T Boffa-Ballaran, D Frost, T Balic-Zunic, L Olsen, S Stolen

1445h EID10210L Bulk sound speed and Grüneisen parameter of postperovskite and their implications for the D° heterogeneities: S Shim, J Hustoft, K Catali, A Kubo, V Prakashena, M Kunz

1515h EID10211L The effect of Fe3+ on the equations of state of Mg-silicate perovskite and post-perov: K Catali, S Shim, A Kubo, V Prakashena

EID10212P Mixing models of the upper mantle and global transition zone reflections: J Ritsema

EID10213P The olivine-wadsleyite phase transformation in mantle peridotite: J Zhang, L Wang, Y Zhao, Y Wang

EID10214P Experimental study of Mg and Fe exchange in Cpx-Bi system and alkaline rocks geothermometry: A Kovalskii, T Kovalskaya, A Kotelnikov

EID10215P An overview of the cationic array in post-perovskite phases: A possible contribution to the understanding of compressibility and phase transitions in the Earth’s interior: M Figueiredo

EID10216P Influence of Components on the physical properties of intergranular melts: E Lebedev

Thursday 0830h
EIL-03 The lithosphere–asthenosphere boundary: Nature, formation and evolution from Hadean to now

0830h EIL03201L A global lithosphere-asthenosphere boundary?: C Rychert, P Shearer
0900h **EIL03202L** The lithosphere-asthenosphere boundary: Clues from joint interpretation of surface-wave velocity and attenuation models: U Faul, C Dalton

0915h **EIL03203L** Lithosphere-asthenosphere interaction at extensional settings: Insights from the ophiolitic peridotites of the Jurassic Ligurian Tethys: G Piccardo, G Ranalli

0930h **EIL03204L** The continental LAB: Can we sample it?: W Griffin, S O’Reilly

1030h **EIL03205L** Electrical and seismic estimates of the depth to the LAB: A Jones, J Plomerova, T Korka

1100h **EIL03206L** Lattice-preferred orientation, water content and seismic anisotropy of olivine: Implications for the lithosphere-asthenosphere boundary of continents: Q Wang

1130h **EIL03207L** Long memory of mantle lithosphere fabric – LAB constraints from seismic anisotropy: J Plomerova, V Babuska

1145h **EIL03208L** Estimating lithospheric thickness from seismic tomography: S van der Lee

1400h **EIL03209L** The lithospheric/sub-lithospheric upper mantle system: Advances and limitations from recent multidisciplinary studies: J Afonso, M Fernandez, J Fulle, S Zlotnik

1430h **EIL03210L** Compositional variation in the lithospheric mantle and correlation with depth to the lithosphere-asthenosphere boundary: S O’Reilly

1445h **EIL03211L** Heterogeneity in the oceanic lithosphere as evidenced by mantle xenoliths from Sal island (Cape Verde Archipelago): M Colliorti, C Bonadiman, S O’Reilly, W Griffin, N Pearson

1500h **EIL03212L** Distinct lateral variation of lithospheric thickness in the North China Craton: L Chen, T Wang, L Zhao, T Zheng

1600h **EIL03213L** Lithosphere thinning and doubling implied from seismic tomographic images of the Chinese continent: M Feng, M An, S Van der Lee

1615h **EIL03214L** On the gravitational stability of continental mantle roots: G Houseman

1630h **EIL03215L** The lithosphere – asthenosphere boundary of the Slave craton: A zone of mantle magmatism: M Kopylova

1645h **EIL03216L** Non-hotspot volcano chains originating from small-scale sublithospheric convection (a 3D-numerical study): M Ballmer, J van Hunen, I Garrett, T Bianco, P Tackley

**Thursday 0830h**

**EUR-04** Tectonic evolution of the lithosphere from European Precambrian Craton to Alpine system on the base of the deep geophysic

0830h **EUR04201L** Three crustal domains of the European plate – new digital Moho depth map: M Grad, T Tiira

0900h **EUR04202L** Lithosphere of Europe and surrounding areas as reflected in potential fields: S Wybraniec

0915h **EUR04203L** A new generation of long range controlled source seismic experiment in Central Europe.

Review of the basic results: A Guterch, M Grad, G Keller, C Polonaise’97, S ALP 2002


0945h **EUR04205L** Structure of the crust in the area of Dinarides and Pannonian Basin based on gravity modelling: F Šumanovac

1030h **EUR04206L** EUROBRIDGE revealing Archean to Devonian geodynamics in the East European Craton: S Bogdanova, M Grad, A Guterch, T Janik, G Karatayev, E Kozlovskaya, G Motuza, V Starostenko, H Thybo, J Yliniemi

1100h **EUR04207L** Seismic models of the lithosphere between EEC and Carpathians mountains on the base of Celebration2000 project: T Janik, M Grad, A Guterch, W Celebration2000

1115h **EUR04208L** Dominant structures of Inner Western Carpathians: A tectonic model based on seismic and gravity data of project Celebration 2000 - transect CEL-05: J Vozár, M Bielik, A Guterch, M Grad, K Csicsay, J Hladký

1130h **EUR04209L** The structure of the crust and the upper mantle in the northern Bohemian massif and Sudetes based on data from seismic experiment SUDETES 2003: M Majdański, M Grad, A Guterch, W SUDETES

1145h **EUR04210L** Termomechanical state of the lithosphere between the Pannonian Basin and East European Craton: M Jarosinski

**EUR04211P** 3.5 Ga of lithosphere evolution in Europe: Insights from multidisciplinary geophysical studies: I Artemieva, H Thybo, M Kaban

**EUR04212P** Crustal structure of the finnish part of the Archean Karelian craton: M Uski, T Tiira, M Grad, J Yliniemi

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**Thursday 0800h**

**EUR-08** The North Atlantic Igneous Province stripped: Origin, magmatic activity, crustal processes and plate kinematics

0800h **EUR08201L** Magma ascent along a major terrane boundary: Crustal contamination and magma mixing at the Drumadown intrusive complex, isle of Arran: F Meade, D Chew, V Troll, R Elidam

0815h **EUR08202L** Isotopic evolution of a large igneous centre; insights from the Isle of Rum, Scotland: G Nicoll, V Troll, C Donaldson, R Elidam, H Emeleus

0830h **EUR08203L** New paleomagnetic pole constraints from the British Tertiary Igneous Province: M Ganeroed, M Smethurst, S Rousse, T Torsvik, T Prestvik

0845h **EUR08204L** Sill emplacement and contact metamorphism in the Voring Basin during formation of the North Atlantic Volcanic Province and the implications for the PETM climate change: H Svensen, S Planke, F Corfu

0915h **EUR08205L** Using OCT location & continental extension predicted by gravity inversion to refine plate reconstruction models for the North Atlantic rifted margins: A Alvey, N Kuszni, T Torsvik, C Gaina

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Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.
0930h EUR08206L Paleocene-Recent plate boundaries in the NE Atlantic and the formation of jan mayen microcontinent: C Gaina, L Gernigon, P Ball

1030h EUR08207L NE Atlantic crustal thickness and OCR location from satellite gravity inversion: Evidence for thin extinct aegir ridge oceanic crust and the extent of the jan mayen micro-continent: N Kuszniir, E Greenhalgh

1100h EUR08208L Enigmatic Neogene magmatism NE of Iceland – Major magmatic underplating off the Norwegian margin: A Breivik, J Faleide, R Mjelde

1115h EUR08209L The British-Irish Palaeogene Iguanodon Province revisited: Influence of crustal composition on differentiation processes across five major crustal terranes: V Troll, G Nicoll, F Meade, R Ellam, L Font, J Gamble, C Donaldson, H Emelyus

EUR08210P Documenting igneous sills in the Irish sector of the North Atlantic Iguanodon Province: K Fernandes, S Jones, R Hardy

EUR08211P TALGE: The Antrim Lava Group Enigma: M Ganeroed, M Smethurst, S Rousse, T Prestvik

EUR08212P The age and petrogenesis of Palaeogene flood basalts volcanism in NE Ireland: C Mckenna, J Gamble, I Mitchell, P Lyle

EUR08213P The Davis Strait BLIP: Tenuous relationships to deep mantle plume activity and NAIP: D Clarke

Thursday 0800h

GEP-04 Hydrocarbon resource assessment methodology in a complex architectural context

0800h GEP04201L Construction and use of an analog database containing number and sizes of oil and gas accumulations: R Charpentier, T Klett, E Attanasi

0830h GEP04202L Bayesian discovery process modeling in frontier and mature basins: R Sinding-Larsen

0900h GEP04203L Prognoses before drilling and results after drilling of wildcat wells drilled between 1998 and 2007 on the Norwegian Continental Shelf: K Ostgard, P Blystad, D Helliksen

0915h GEP04204L Example of resource assessment in StatOilHydro, a case study from the More Basin Norwegian Sea: S Nilsson, L Aasum, J Kristensen, P Eliassen, A Helsem

0930h GEP04205L A play level assessment of undiscovered resource potential: A Cournot, M Zater

0945h GEP04206L Integrated play and prospect assessment: An application to a frontier basin: K Dittmers, P Hole, C Stabell

1030h GEP04207L Petroleum resource assessment with model-based stochastic simulation: Z Chen, K Osadetz, S Hu, Q Guo, S Mi

1100h GEP04208L The generalized Pareto distribution as a model for the parent size distribution of grown oil and gas pools: K Hood, R Sinding-Larsen

1130h GEP04209L Study on reserves calculation for fractured-vuggy reservoir of buried hill: Q Guo, X Xu, L Zhang, J Shi

GEP04210P A petroleum resource evaluation incorporating improved recovery and variable dependencies, example from the Beaufort and Mackenzie basin: Z Chen, K Osadetz, G Morrell

GEP04211P Approbation of new Russian classification of oil and gas reserves and resources: A Gert, K Volkova, P Melnikov, K Zhukov

GEP04212P Prognostic features of deposit reservoirs distribution law: O Razmanova

GEP04213P Stabilization of hydrocarbon resources: Doomed Asas in Tatarstan promise bright prospects: R Muslimov, V Smelkov, A Borisov

GEP04214P The study on reserves parameters determination method for volcanic reservoir – an example in Huangshatuo area of Liaohu Oilfield: T Li, L Kong, Y Hu, J Shi

GEP04215P New methods for prediction of oil ultimate resources: H Bi, W Zhao, J Li, Y Chen, W Kang, Z Han, X Hu

GEP04216P The OOIP evaluation for Archean metamorphic reservoir of buried hill: S Chi, C Zhao, Y Cui

Thursday 0830h

GEP-11 Palaeogeography and palaeo-Earth systems modelling: New approaches to reducing exploration risk

0830h GEP11201L Global palaeogeography and palaeo-Earth systems: The basis for an innovative source facies prediction method to reduce exploration risk in frontier basins: J Harris, R Crossley, N Stronach, D Burggraf, J Suter, P Valdes, R Proctor

0900h GEP11202L PALMOC project: simulation of late Jurassic climate: Z Zhang, F Flatoy, M Bentsen

0915h GEP11203L Calibrating Earth system models: Upper Jurassic petroleum systems: B Badić

0930h GEP11204L Drainage development, sediment transport and reservoir development: A palaeotopographic study at variable scales: D Hulme

1030h GEP11205L Intricacy versus simplicity – critical choices that impact predictive workflows: C Fraticelli, K Bohacs, W Heins

1100h GEP11206L The assessment Cretaceous palaeogeography and palaeo-Earth systems model results: Climate proxies and model/data comparisons: J Harris, R Crossley, N Stronach, M Goodrich, P Valdes, R Proctor

1115h GEP11207L Evidences of the oceanic anoxic event (OAE2) in northern south america from planktonic foraminifera record: O Mantilla Muñoz, M Pulido Taborda

1130h GEP11208L Lake Qinghai, China: Using 3D stratigraphic forward modelling to predict organic carbon content of a non-marine basin system: C Griffiths

Thursday 0830h

GEP-15 Geology for efficient hydrocarbon recovery

GEP15201P Modeling of hydrocarbon resources recovery: I Balanyuk, A Dmitrievsky, T Akvis

GEP15202P Geology and lithology for efficient hydrocarbon recovery: A Dmitrievsky

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.
Thursday 0900h
GHZ-04 Earthquake hazard assessment and geotechnics


0930h GHZ04202L Earthquake-related hydrogeochemical changes: An overview: C King

0945h GHZ04203L Analysis of earthquake-induced landslides during the 2007 Aysen Fjord seismic swarm, Chilean Patagonia (45.5°S): S Sepulveda, A Serey, A Pavez, S Barrientos, M Lara


1045h GHZ04205L Estimation of S-wave velocity structure using microtremor array measurements (SPAC method): M Ghayamghamian, M Rezapour, A Peredayouni

1100h GHZ04206L Generation of geological database for liquefaction hazard analysis in the Kathmandu Valley: B Pyla, C Cees van Westen

1115h GHZ04207L Seismic Hazard in the main cities of Eastern Cuba considering local geological conditions: Z Rivera Alvarez

1130h GHZ04208L Preliminary results of the Neo-Deterministic hazard assessment in north Africa: T Mourabit, D Benourar, H Hussein, A Ben Soleiman, G Panza

1145h GHZ04209L Seismic hazard assessment for chittagong city corporation area, Bangladesh: A Kamal

1400h GHZ04210L Seismic microzonation studies and site response analysis in the city of Santa Venerina, Sicily (Italy): M Maugeri, S Cocina, S Grasso

1430h GHZ04211L Landslides associated to the earthquake of 7.9(Mw) of the August 15th 2007 in Peru: P Valderrama, B Zavala, R Hermans

1445h GHZ04212L Criteria and methodology for geohazard assessment and mapping: M Radulian, B Grecu, N Mandrescu

1500h GHZ04213L Respect distances: Rationale and means of computation: R Munier, H Hökmark, B Falth

1515h GHZ04214L Liquefaction susceptibility of quaternary sediments and soil cover of Jabalpur urban area: C Menon, S Pimprikar, P Mishra

1600h GHZ04215L Seismic hazard and risk microzonation of Jabalpur urban area – A case history: C Menon, S Pimprikarsad, P Mishra

1615h GHZ04216L Ground motion simulations and parameter sensitivity – a case study for assessing seismic hazard in Izmir, Turkey: L Bjerrum, K Atakan, M Sorensen

1645h GHZ04218L Earthquake hazard assessment for major cities in India: Site response a useful tool: R Chadha, S Davaluri, V D, S M, S Chinta

1700h GHZ04219L Gravity, seismic and ambient noise to detect the buried shape of an alpine valley: L Marello, C Barnaba, A Vuan, F Palmieri, M Romanelli, E Priolo, C Braitenberg

GHZ04220P Intraplate earthquakes in Western Desert of Iraq: E Al-Heety

GHZ04221P Mud volcanoes activity and its relationship with seismic events in the northwest of Colombia: J Gomez, C Lalinde

GHZ04222P Recent large SCR earthquakes in India: Active faults and hazard assessment: J Kayal

GHZ04223P Structure of elastic presage of earthquake: I Boltenhagen

GHZ04224P Modern geodynamic activity of the earth’s crust of Southern Uzbekistan: I Alimukhamedov

GHZ04225P Risk assessment and environmental safety of a historical site: A study case: A Samir

GHZ04226P Reviewing the 5 March 1987, NE Ecuador for assessing the macroseismic intensity applying the ESI 2007 Scale: K Chunga, A Michetti, J Egred

GHZ04227P Seismic microzoning of Barquisimeto city by 2D modelling of the seismic response: J Alvarado

GHZ04228P Dynamic seismic hazard prediction and pipeline earthquake impact: O Babazade, N Babazade, L Griesser

GHZ04229P The effect of Mok-Sabzpooshan fault zone on the Shiraz city development: A Imani, N Bairampour Basmenj

GHZ04230P Real-time seismic monitoring and warning systems and risk management (case study of December 1, 2007 micro and macro earthquakes in Tabriz city, north-west of Iran): E Ghanbari

GHZ04231P Integrated study of the geological, geophysical and seismonological data for earthquake response evaluation: N Mandrescu, N Mandrecu, M Radulian, G Marmureanu, B Grecu

GHZ04232P Seismoactive fault zones in Azerbaijan (Iran) case study North Tabriz Fault (NTF): S Aslanpoo

GHZ04233P Hydrogeological risk in plain area of Abruizi region (Italy): examples from the Aterno river valley and the Fucino plain: S Nisio, V Valero, G Ciotoli

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium's oral presentations.
GHZ04234P Deformation waves as a trigger recurs of quasi-periodic activation of lithosphere faults of Central Asia in real time: S Sherman, Y Gorbunova

GHZ04235P Seismic-hydrogeochemical coupling in north-eastern India: A Skelton, L Claesson, G Chakrapani, C Mahanta, J Routh, M Mörtth, P Khanna

GHZ04236P Fault behaviors of a rapid creeping reverse fault at the plate suture: The Chihshang fault in eastern Taiwan: J Lee, J Angelier, H Chu, J Hu

GHZ04237P Real time monitoring system for hazard assessment and risk mitigation due to the landslides triggered by seismic activity: D Stanica, D Stanica, C Diaconopolos

GHZ04238P AIGIS-based methodology for recognition of potential seismic sources: H Ye, Q Zhou

GHZ04239P Regional based seismic zonation: A Sansoni

GHZ04240P Display peculiarity seismicity in the different geologic structures: K Abdulla Bekov, M Usmanova

GHZ04241P Probabilistic assessment of seismogenic potential of the faults in southeastern Korean peninsula: C Chang, C Im

GHZ04242P EMS scale and earthquake’s effects on nature: R Vidrih, M Ribicic

GHZ04243P Geological hazards assessment Sochi territory in the context of preparation for the 2014 winter Olympics: G Koff, I Chesnokova

GHZ04244P Methodology for construction of the 3-D crustal model for strong ground motion simulation in a complex tectonic environment: Example of the Philippine Sea subduction zone, Japan: A Petukhin, T Kagawa

GHZ04245P Conceptual design of wetlands to treat acid mine drainage from the dalsung W-Cu Mine, Korea: Y Hong

GHZ04246P Probabilistic seismic hazard analysis in Algeria: Y Bouhadad

Thursday 0800h

GSM-03 Karst as a global phenomenon – a tribute to Derek Ford and Paul Williams – Part 2

0800h GSM03204L Three major types of karst in China: D Yuan

0830h GSM03205L Taking the plunge into deep time – speleo-chronology comes of age: T Atkinson, P Rowe

0900h GSM03206L Chronology and growth rate of the Naica giant gypsum crystals: S Lauritzen, S Constantin, P Forliti

0915h GSM03207L Stable isotopes in speleothems – From wiggly lines to climate gradients: T Atkinson, P Rowe, T Osborn, H Blyth, S White, P Hopley, D Richards, D Hoffmann, P Smart

0945h GSM03208L Results of palaeomagnetic research of karst sediments in Slovenia: N Zupan Hajna, A Mihevc, P Pruner, P Bosak

1030h GSM03209L A synergy of dating techniques for Hard-to-date hominin sites in South Africa: A Latham

1045h GSM03210L Geological investigation of the limestone caves in South Korea: K Woo, R Kim, K Jo, K Lee, J Lim

1100h GSM03211L Karst geomorphology and hydrogeology in Ireland: J Gunn, D Drew

1115h GSM03212L Modelling early evolution of maze caves in stripe karst: R Skoglund Øvrevik, S Lauritzen, F Gabrovsek

1130h GSM03213L Landscape erosion rates in the Yorkshire Dales from speleotheun ages; Tweeking the analysis: A Latham

1145h GSM03214L Contributions to Karst Science and Education from the Mammoth Cave Region, Kentucky USA: C Groves, W White

1200h GSM03215L Fracture and erosion control of speleogenesisis in glacial valleys: Example from Grátechalen, central Svaritsen, Northern Norway: T Solbakk, S Lauritzen

1215h GSM03216L Assessment of the hydrological functioning of the karstic system in Fontaine-Sous-Praeus: A Mouch, A Moteluy-Massei, M Fournier, N Massei, J Dupont, b Laingel

Thursday 0830h

GTN-01 General contributions to new methods and technologies – Part 2

0800h GTN01212L Evaluation of fracture aperture and roughness and their effect on fluid flow and solute transport using multi-scale computed tomography and numerical modeling: R Ketcham, C Thompson, D Slotlke, M Cardenas, J Sharp

0830h GTN01213L Joining hydrogeological and geophysical data in an integrated assessment of the groundwater potential in Granite Aquifer: S Chandra, N Krishnamurthi, D Kumar, J Baltassat, J Girard, B Dewandel, V Rao, S Ahmed

0845h GTN01214L Near-surface thermo-atmo-geochemical structural mapping for oil and gas exploration in Ukraine: I Bagri, P Gozhik, O Bagri

0900h GTN01215L Nano-mets in soil gas: The phenomenon and its applications: M Wang, Y Gao, Y Liu, M Wang

0915h GTN01216L Nanosized diamond formation from fluid phase at metastable P-T parameters: S Simakov, V Dubinchuk, M Novikov, N Melnik

Thursday 0830h

HPS-05 Recent developments in the Geologic Timescale

0830h HPS05201L Recent developments in the geologic timescale: F Gradstein, J Ogg

0845h HPS05202L Improving uncertainty estimates for radiogenic isotopic dates used in calibrating the geologic timescale: M Villeneuve, M Schmitz

0900h HPS05203L The planetary time scale: K Tanaka, W Hartmann

0930h HPS05204L A chronostratigraphic division of the Precambrian: possibilities and challenges: M Van Kranendonk

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.
1030h HPS05205L Progress towards stratigraphic subdivision and correlation of the Neoproterozoic: G Shields

1100h HPS05206L Status of Cambrian chronostratigraphy: L Babcock, S Peng

1130h HPS05207L Carboniferous and permian geologic timescale: State of the art, chronostratigraphic, biostratigraphic and radiometric calibration and integration: V Davydov, M Schmitz, V Chernyk, J Crowley, C Henderson, D Korn

1400h HPS05208L An astronomical time scale for the mesozoic era: L Hinnov, J Ogg

1430h HPS05209L Towards an astronomical-tuned Cenozoic timescale: F Hilgen, L Lourens, K Kuiper, H Palike, U Rohr, T Westerhold

1500h HPS05210L Challenges in late Cenozoic chronostratigraphy and definition of the Quaternary: B Pillans

HPS05211P The International Geologic Time Scale – Status of Boundary Definitions (GSSPs): J Ogg

HPS05212P Magnetic stratigraphy of the early paleocene, Maastrichtian and Campanian in western Canada: Chrons, subchrons and tiny wiggles: J Lerbekmo

HPS05213P Updated numerical ages of Triassic stages and the correlation of the Germanic Triassic with the tethyan scale: H Kozur, G Bachmann


HPS05216P High resolution cyclostratigraphy of upper Jurassic (Callovian to Oxfordian) marly formations (Paris Basin): Astronomical calibration and implications for regional correlation: E Huret, L Hinnov, B Galbrun, P Collin, S Bouilla

HPS05217P Geochronological calendar as an alternative to the «geological time scales»: A Kulinkovich, M Yakymchuk

HPS05218P Astronomical calibration and correlation of the lower Jurassic, Paris and Lombard basins (Tethys): E Huret, L Hinnov, B Galbrun, M Clemente, P Collin, S Gardin, J Rouget

HPS05219P The Cretaceous astronomical time scale: R Locklair, L Hinnov, J Ogg

HPS05220P In search of a criterion to define the Ypresian/Lutetian boundary: S Ortiz, J Larrasoña, E Molina, X Orue-Etxebarria

HPS05221P New data on the Middle-Upper Permian magnetic-biostratigraphic boundary in the east European platform: M Minikh, E Molostovskij, I Molostovskaya, A Minikh, A Grishanov

HPS05222P Magnetostratigraphy of the Santonian-Campanian lea park formation, southern Alberta and Saskatchewan, western Canada sedimentary basin: A Mumpy, O Catuneanu, J Lerbekmo

HPS05223P Adout perfection of Geological time scale-2004: V Kulikov, V Kulikova, Y Bychkova


HPS05226P The Tertiary: A proposal for its formal definition: M Head, P Gibbard, S Amos

HPS05227P The magnetostratigraphy of early Cretaceous Liupanshan group of Liupanshan basin, central China: S Dai, Q Zhu, X Fang, H Hu, Y Tang, M Yan, Y Huang, J Liu, L Kong

HPS05228P Biostratigraphy and main evolutionary events in planktic foraminifera and calcareous nanofossils across the GSSP of the Danian-Selandian boundary at the Zumaia section: O Xabier, A Estibaliz, B Juan Ignacio, B Gile, C Fernando, P Victoriano

Thursday 0830h

HYH-02 Groundwater resources and management

Part 2

0830h HYH02211L Water quality and arsenic pollution in ground of Bangladesh: H Rahman

0845h HYH02212L Measuring network with implemented real time communication for drinking water surveillance in karst aquifers. A contribution to implement the WFD (Water Framework Directive) within water supplies: H Staider, E Klock, P Skritek, A Farneleiter

0900h HYH02213L Combating negative impact of green revolution on groundwater, soil and land in Haryana, India: S Lunkad, A Sharma

0915h HYH02214L A simplified model for probabilistic assessment of the risk of groundwater contamination: C Winter

0930h HYH02215L Soil-Water interface studies for evaluation of groundwater pollution in and around industrial town of Ludhiana, India: G Gill, H Arora

1030h HYH02216L Groundwater resources and its management for rational use: A Akhtar

1100h HYH02217L Integrated management of surface and groundwater resources of the river Gash basin, Sudan: A Gademula

1115h HYH02218L How to manage the drinking water source in the urban area? – The case of Ljubljansko polje aquifer: B Bracic Zeleznik

1130h HYH02219L Management of the environmental resources of the Kanto Groundwater Basin in Japan –
Groundwater level, land subsidence and monitoring system:- K Furuno, T Kusuda, H Nirei, A Kagawa, O Kazaoka
1145h HYH02220L Management practices and global change – effects on groundwater, the key resilience factor for Lake St Lucia, south Africa: L Vareet, B Kelbe, R Taylor
1400h HYH02221L The age of deep aquifers in Milan Province: Development of a new i.e.b.-tritium calibration curve: M Gorla
1415h HYH02222L Analysis of in situ experiments using the EIS (Electrical Impedance Spectrometry) method: C Miracapillo, J Parilkova
1430h HYH02223L Main geothermal areas in Romania: E Petru, C Dumitrice
1445h HYH02224L Assessment of aquifer vulnerability using 2D resistivity profiling: A Dageslad, E Dalsegg
1500h HYH02225L Understanding the fate of nitrates in hard-rock aquifers through an integrated isotopic, experimental and modelling approach: H PAUWELS, V AYRAUD VERGAUD, L ANDRE, L AQUILINA, M DICTOR, T LABASQUE, M AZAROUAL
1515h HYH02226L River baseflow of the Cretaceous system in the ordo sanchez basin, China: L Feng, J Feng
1600h HYH02227L Public participation in measuring the rainfall provides adequate variability: S Pagadala, S Ahmed
1615h HYH02228L Rise in groundwater in northwestern Rajasthan, India: A Shandilya
1630h HYH02229L Aquifer properties in Malaya Belaya Valley: J Pihla
1645h HYH02230L Environmental impact of the agricultural and industrial activities in the fertile valley of Loures – construction of risk cartography: M Rosalino da Silva, M Durães Albuquerque, L Tavares Ribeiro
1700h HYH02231L Geology and ground water storage capacity in jeju volcanic island: B Yum, K Park, D Koh, Y Kim
1715h HYH02232L Formation of earth fissures caused by exploitation of deep groundwater in the hengshui area, North China plain: X Wang, Y Zang, J Wang, S Han, C Liu, X Li

Thursday 0845h
IEH-01 General contributions to history of geosciences
0845h IEH01201L What is the use of the history of geology to a practicing geologist?: C. Sengör
0915h IEH01202L Discovery of the African rift valleys: M Mohr
0930h IEH01203L Mobile continents and fixed published opinions: A Krill
0945h IEH01204L Domenico Loovisato: the man who divided the continents: S Furlani
1030h IEH01205L John Whitehurst: Geological pioneer: W Berry
1045h IEH01206L The development of lithostratigraphy in the Alpine region during the early 19th century through the work of Giuseppe Marzari Pencati and Pietro Maraschini: E Vaccari
1100h IEH01207L New understandings about the role of the national geological survey of China in the Chinese history of science: E Zhang, X Cao
1115h IEH01208L Geomorphology of the pacific railroad surveys of the American west in the 1850s: A Orme, A Orme
1130h IEH01209L Monarch and mineral: Bartholin’s experiments on Iceland spar and Steno is work compared: T Yamada
1145h IEH01210L William Stanley Jeovns (1835–1882) and the coal question: Implications: D Oldroyd
1400h IEH01211L Did Esmark’s (1824) glacial theory impel the discovery of the “greenhouse” effect (Tyn dall, 1861), lithospheric isostasy (Jamieson, 1882) and continental drift (Wegener, 1912)?: P Hoffman
1415h IEH01212L Into the mountains: Norwegian geology around 1800: G Hestmark
1430h IEH01213L Norwegian geologists as foreign members of the Russian academy of sciences: I Malakhova
1445h IEH01214L Urban Hiärne’s geological inquiries in 1694: B Sundquist
1500h IEH01215L Zeolites and Swedish dominance in mineralogy from 1756 to 1776: D Hogarth
1515h IEH01216L The contribution of classical goniometry to China mineralogy and museum: W Wang, S Zhao, X Niu
1600h IEH01217L Geological investigations of uranium in South Australia through the 20th century: B Cooper
1615h IEH01218L An electroplate tectonic hypothesis in 1861: A Krill
1630h IEH01219L The geological work of the bauin expedition in Australia (1801-1803): Discoveries, personalities and legacy: W Mayer
1645h IEH01220L China and the international geophysical year (1957-1958): J Zhang, Z Wang
1700h IEH01221L Women in the ICCP: Contributions to “Big Geoscience”: S Turner, P Vickers-Rich
IEH01222P Gold in Iran: M Ghorbani, N Mousavi Pak
IEH01223P Answer, found in the history (has NaCl cubic structure?): L Oparina
IEH01224P Development and Evolution of the geoscience system in the 20th century – Evidence from the statistical analysis of geoscience articles: S Dong, X Chen, J Shi, S Liu
IEH01225P Early geological mapping of Central America (1850s-1930s): G Soto
IEH01227P Grigory Helmersen’s field trip to Sweden and Norwegen in 1845 and associated research: Z Bessnova
IEH01228P The early history of Monte Castellaccio Geopark at Imola (Bologna, Italy): S Marabini, S Mariani, G Vai

IEH01229P Mineralogy in ancient India: S Kottapalli

Thursday 0830h
IES-02 Earth heritage: Science, education and capacity building
0830h IES02201L Sharing the responsibility of geological heritage conservation: Linking science, governance and education: I Komoo, S Aziz, N Azman
0900h IES02202L Geodiversity and geological heritage along the Baltic traverse – Northern Poland, Lithuania, Latvia and Estonia: J Satkunas, M Graniczny, S Uscinowicz, G Miotk-Szejgianowicz, D Ozala, A Markots, K Taht-Kok, R Raudsep
0915h IES02203L The concept of geological heritage in a global perspective: P Bobrowsky, G Nowlan, J Clague, N Rutter
0930h IES02204L The canon of the history of the Dutch landscape – a tool for raising geo-awareness: J van den Ancker, J Pieter Dirk
0945h IES02205L Teaching about deep time and the evolution of the Earth System in the Cradle of Humankind: I McKay
1030h IES02206L Partnerships for Geoheritage Conservation: W Hill
1100h IES02207L Using plate tectonics to engage the public on the geology of national parks: R Lillie
1115h IES02208L Rehabilitation of Tennessee Hollow watershed: preservation of a heritage: W Berry
1130h IES02209L Educational activities in a European geopark and new tools for earth heritage interpretation – The Lesvos Petrified Forest – Greece as a case study: N Zouros, K Mpentana, I Valiakos, K Vasilieadou, E Kyriazi
IES02210P Cretaceous vertebrate tracksites – Korean Cretaceous dinosaur coast world heritage nomination site: M Huh, M Lockley, I Paik, K Woo, J Lim
IES02211P The geology in the conservation of Machupicchu World Heritage: New results: V Carlotto, J Cardenas, L Fidel

Thursday 0800h
MAG-05 New frontiers of mathematical geology for resources exploration
0800h MAG05201L Probabilistic estimates of number of mineral deposits using deposit densities: D Singer, R Kouda
0830h MAG05202L GIS application on nonferrous metal resource prediction in Chifeng Region, Inner Mongolia, China: J Chen, Y Chen
0845h MAG05203L Multi-scale modeling of rock fracture distributions for characterizing hydraulic properties: K Koike, C Liu, K Amano, A Kurihara
0900h MAG05204L Predictive 3D mineral potential modelling: Application to the VHMS deposits of the Noranda District, Canada: M Böhme, M Apel
0915h MAG05205L Application of multi-fractal filtering to extract Cu, Ni, Au anomalies of the East Tianshan Ore-forming Belt, North-western China: J Huang, H Liu, P Zhao
0930h MAG05206L Resource exploration by satellite remote sensing with information management: R Kouda
1030h MAG05207L 3D, probabilistic and numerical modelling – Tools in assessing mineral resource potential under cover: M Scott, L Feltrin, O Dixon, P Blake, M Fitzell, D Purdy, N Oliver, J McLellan
1100h MAG05208L Stochastic approach to data uncertainties: J Wellmann, E Schill, K Regenauer-Lieb
1115h MAG05209L A quantitative methodology to select training set of coherent deposit-type locations to improve data-driven modeling of mineral prospectivity: E Carranza
1130h MAG05210L Small scale gold-quartz exploration in north west of Iran case study on Masjeddaghi gold resource: P Soodishoar
1133h MAG05211L Geometric modeling and reserve estimation of Gandi gold deposit with Gemcom software: L Fathollahpour
1136h MAG05212L Resource assessment based on 3D-GIS technology and BP network method in the Puling porphyry Cu copper deposit, Yunnan, China: G Wang, Y Du, J Chen
1139h MAG05213L Revealing and the computer analysis of the complex interconnected properties of geological space for the purposes of the forecasting: O Yuldashev
1142h MAG05214L Computer technology in assessment of polycomponent placer deposits: I Chizhova, N Patyk-Kara
1145h MAG05215L Quantitative Prediction and Assessment of Gold mineral Resource in Chifeng Region, China: P Zhao
1148h MAG05216L Cognitive graphics in database for search of analogues of gold deposits: I Chizhova, M Konstantinov, S Struzhkov
1154h MAG05218L Identification of geochemical anomaly of W in Nanling region, South China: S Xie, Q Cheng, Z Bao, C Wang, X Ke, P Fan
1157h MAG05219L Estimation of conditional distributions for two variables using canonical correlation analysis: E Akcan, A Tercan
1400h MAG05220L Laudatio for Vera Pawlowsky-Glahn: H Burger
1415h MAG05221L The 2008 Griffiths Teaching Award lecture “Cokriging of compositional data!": V Pawlowsky-Glahn
1500h MAG05222L Laudatio for the Georges Matheron lecture: C Lantueijoul
1515h MAG05223L The Georges Matheron lecture “Modelling point processes in exploration geology”: A Baddeley

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.
Thursday 0830h
MPC-03 Precambrian isotope chemostratigraphy
0830h MPC03201L Atmospheric, climatic, and biological evolution at both ends of the Proterozoic Eon: A Kaufman
0900h MPC03202L The end of the Paleoproterozoic carbon isotope excursion: New time constraints: J Karhu, N Korjeltainen, H Huhma, V Perttunen, S Sergeev
0930h MPC03203L Chemostatigraphy of mesoproterozoic carbonates in the Nico Pérez Terrane, Río de la Plata Craton: L Chiglino, C Gaucher, A Sial, J Bossi, V Ferreira
0945h MPC03204L More evidence of a short-lived global perturbation in the marine C isotope composition in the aftermath of the 0.64 Ga global glaciation: J Silva Tamayo, T Naegler, A Nogueira, J Villa, C Riccomini, A Sial
1030h MPC03205L The Neoproterozoic successions of the São Francisco Craton: Phosphogenesis, chemostatigraphy and possible correlations: A Misi, A Sanches, A Kaufman, K Azmy
1045h MPC03206L Evidence of late Neoproterozoic, post-Gaskiers glacial events from sedimentary successions in southwestern Gondwana: C Gaucher, A Sial, G Germs
1100h MPC03207L Stable isotope chemostatigraphy of the Neoproterozoic Easdale Group, Scotland and correlation with global events: D Lowry, N Grassineau, N Lang
1115h MPC03208L REE geochemistry of Neoproterozoic carbonates: Deviations from normal marine signatures: H Frimmel
1130h MPC03209L Ediacaran C-isotope chemostatigraphy of the Lesser Himalaya, India: V Tewari, A Sial
1145h MPC03210L Overturn of anoxic deep ocean in the Ediacaran Period – Evidence from isotopes and trace elements: X Chu, J Huang, T Zhang
MPC03211P Baddeleyite: A very important geochronometer for Paleoproterozoic plume processes: T Bayanova
MPC03212P C and O isotopes of megaripple-bedded dolostone from Neoproterozoic cap carbonate, southwestern Amazon Craton: J Soares, A Nogueira, O Menezes, A Sial
MPC03213P C and Sr-isotope stratigraphy for Upper Cambrian carbonates of Precordilleran of western Argentina: V Ferreira, A Sial, S Peralta, C Gaucher, A Toselli, M Parada, M Pimentel
MPC03214P C, O and Sr isotope study of Shahabad limestone of Bhima basin, southern India: N Ramasamy, N Raghavendra, S Alcides Nobrega, E Rob
MPC03215P C-, Sr-isotope and Hg stratigraphies of Neoproterozoic cap carbonates of the Serripiano belt, northeastern Brazil: A Sial, V Ferreira, C Gaucher, M Silva Filho, M Pimentel, L Lacerda, E Silva Filho, W Cezario
MPC03216P Carbon and Oxygen isotopes in dolomitic sandstones from the Neoproterozoic Raizada Formation, southwestern Amazon craton, Brazil: J Bandeira Júnior, A Nogueira, A Sial
MPC03217P Carbon and strontium chemostatigraphy of post-Gaskiers carbonates in South America: M Freitas Figueiredo, M Babinski
MPC03218P Isotopic chemostatigraphy of marbles from the Caraoalina-Surubim Complex, Transversal Zone, Borborema Province (NE Brazil): M Barreto, V Ferreira, A Sial, J Silva, C Moura
MPC03219P Lomagundi phenomenon in Paleoproterozoic carbonates of India and Brazil: A Maheshwari, A Sial, V Ferreira, A Romano
MPC03220P Negative C-isotope anomaly in the Ediacaran Tamengo Formation (Corumbá Group, Southern Paraguay Belt): A Sial, P Boggiani, M Babinski, V Ferreira, M Fanning, T Fairchild
MPC03221P Sulfur isotopic composition of the sulfates and sulfides in Mesoproterozoic in the Volga-Uralian province and southern Urals: V Gorozhanin, S Michurin

Thursday 0830h
MPI-01 General contributions to igneous petrology
0830h MPI01201L A 3D reconstruction of crystal shape and crystal size distribution (CSD) of plagioclase in a synthetic basalt: S Duchene, E Pupier, C Le Carlier de Veslud, M Toplis
0845h MPI01202L Bimodal volcanism in Betul mobile belt, Central Indian Tectonic Zone (CITZ): Petro-tectonic evolution and age constraints: G Arora, A Ghatak
0900h MPI01203L Continental crust formation: Mixing of mafic and felsic magmas to produce intermediate composition rocks: B Clausen, D Morton, R Kistler, C Lee
0915h MPI01204L The post-collisional origin of high Ba-Sr granite and shoshonitic syenite in Hongseong area, South Korea: J Seo, S Choi, R.V.J., C Oh, J Park
0930h MPI01205L Geochronology and petrology on the adakite-type granitoids from northern South Carpathians: new insights in the main events of the geologic history of the Getic Domain: A Dobrescu, M Tiepolo, E Negulescu, D Dordée
0945h MPI01206L Petrologic, geochronologic and isotopic characteristics of the syn-tectonic I-type granitoids: the Early Miocene Alaçandıa volcano-plutonic complex, western Turkey: S Tatar-Erkül, F Erkül, E Bozkurt, H Sözbilir, C Helvacı
MPI01207P Rare earth element geochemistry of the Cumbre Vieja Volcano, La Palma, Canary Islands: Constraints on mantle sources and melting conditions: N Praegel
MPI01208P Petrogenesis of the largest Cenozoic volcano of the Circum-Mediterranean Area: Mt. Karacadag, SE Turkey: M Lustrino, M Keskim, M Mattioli, O Kavak

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.
MPI01209P A geochemical and petrological investigation of the volcanic activity in the Andagua valley, Peru: Implications for magma chamber processes at the northernmost part of CVZ: E Sørensen, P Holm

MPI01210P Enclaves in calc-alkaline rocks: New petrological and isotopic evidences on the nature of the lower crust in the subvolcanic zone of the east Carpathians: D Papp, E Nitoi

MPI01211P Petrogenetic characterization of low-SiO2 and high-SiO2 charnockites: HM Rajesh

MPI01212P A petrological and geochemical study of the Tertiary magmatic rocks in the Maabad area (Central Iran-NW Trourd): M Foudazi

MPI01213P Two types of gabbro – granite plutons and two stages of tectonic – magmatic activation on the Ukrainian Shield: V Kalinin, O Ponomarenko, K Esipchuk

MPI01214P The post-collisional Middle Eocene volcanism of Almacik-Adaparaya area (NW Turkey): Geochemical and isotopic data for its tectonic setting: F Gülmez, P Genç

MPI01215P Petrogenesis and petrography of intrusive rocks in Meshkin-Shahr area, Northwest of Iran: M Ghorbani, D Ghafari Hashigin, K Allahyari

MPI01216P Adakitic geochemical signatures of the Bogné granitoids in southwestern part of the Yeongnam Massif, Korea: S Wee, J Park

MPI01217P Mineralogical data on Neogene-Pleistocene ultrapotassic rocks from Vardar Zone (Republic of Macedonia): B Boyd, Y Yaney, F Innocenti, P Manetti, Z Pecskay, R Ivanova

MPI01218P Petrogenetic modelling of the vertically zoned Cretaceous pohang epizonal intrusive rocks, SE Korea: Y Hong

MPI01219P Spinel-hosted silicate melt inclusions from basalts in the Mirdita Ophiolite belt (Albania): F Keller, I Havancsk, J Kodolanyi, C Szabo

MPI01220P On the genesis of igneous Intrusives from the Gondwana coalfields of Damodar basin, India and their economic potentiality: K Nag

MPI01221P Magmatic sources of the Alter do Chão – Alter Pedrosom bimodal plutonic complex (Ossa-Morena Zone, SW Iberia): J Carrilho Lopes, J Munhá, C Pin, J Mata

MPI01222P Oligo-Miocene igneous activities in Simav region, Western Anatolia: Implications for the late-syn- and extension-related (post-collision) magma series: H Çoban, Z Karacık, O Ece

MPI01223P Contribution of fluids to contamination of limestone-hosted Li-rich pegmatites: L Kuznetsova, V Prokofiev

MPI01224P Natural evidence of high-pressure fractional crystallization found in inclusions in olivine phenocrysts of basaltic magma, northern Japan: K Matsuoka, H Fujimaki, T Ohba

MPI01225P Post-emplacment flow induced by thermal stresses as a mechanism for reversed differentiation in mafic sial intrusions: I Aarnes, Y Podlachikov, E Neumann

MPI01226P Geochemical characteristics of Alpine granitoid rocks from the SW part of the Pannonian Basin: Z Petricevic, D Balen

MPI01227P Magmatic stratigraphy, petrology and petrogenesis of the Neogene magmatic rocks of the Bodrum Peninsula, SW Turkey: S Genc, O Tuysuz

MPI01228P Peraluminous granite dyke swarm in the Lower Sejude of the Moroccan Rif chain: New insights for the post-orogenic history of the Alpine orogen in the western Mediterranean: F Lucci, F Rossetti, D Cozzupoli, A Dini, M Bouybaouene

MPI01229P Multi-pulse replacement of a variscan bimodal calc-alkaline pluton: D Bussien, F Bussy, M Chiaradla

MPI01230P Origin of the adakitic signature of Variscan intrusives in Brittany, France: M Barboni, F Bussy, M Chiaradla

MPI01231P Geochemistry and volcanology of the Bencorragh and Finny Formations of the Lough Nafooey Group: Z Archibald, K Moore

MPI01232P Igneous evolution of anorthosites of the Kunene Intrusive Complex, Namibia: Evidence from plagioclase trace element zoning and oxygen isotope data: P Gleissner, K Druepepe, H Taubald

MPI01233P Classical vs empirical vs experimental petrological modeling: Examples from Central Anatolian volcanics: A Dogan, M Dogan, D Peate, F Yesilyurt, S Tosun, M Akkus, O Conger

MPI01234P The study of enclaves in granitoids from E-NE Tafresh(Central Iran): S Ansari, M Emami

MPI01235P The Sr-Nd isotope heterogeneity in fresh pillow-lavas from the axial rift of the Mid-Atlantic Ridge (Sierra-Leone area, 5-7° N): K Shatatig, E Sharkov, I Krassivskaya, I Chernyshev, N Bortnikov

MPI01236P Evolution of the Phanerozoic volcanism of the northeastern Eurasia: V Masaitis, N Rumiantseva, S Kalabashkin

MPI01237P Mineral associations under the Hua Beicraton (North-Chinese platform) and Arkhangelsk diamondiferous province (East-European platform): X Gao, T Posukhova

MPI01238P Petrogenesis and mineralization of gabbroids associations of the infra-plate magmatism (Republic of Uzbekistan): U Mamarchikov, R Akhundjanov, S Saidganiev

MPI01239P Petrology, Geochemistry and Mineralization potential of igneous rock in North-Northeast Semnan: S Elham

MPI01240P The Late Cenozoic collisional volcanism in the Lesser Caucasus (geochemistry, geodynamics): N Imamverdiyev, M Gasanguliyeva, A Veliyev

MPI01241P Pyroxene xenoliths from Marsabit (Northern Kenya): Evidence for different magmatic events in the lithospheric mantle and interaction between peridotite and pyroxenite: B Kaeser, A Jourdan, B Olker, A Kalt, R Aitherr, T Pettko

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.
Thursday 0830h
MPM-01 General contributions to mineralogy
0830h MPM01201L Mineral growth kinetics in space: K Tsukamoto
0900h MPM01202L Mineralogy of an unusual type of rock of possible meteoric origin: A Romano
0915h MPM01203L Mineralogical X-ray studies of microtektites and micrometeorites from northern Victoria Land, Antarctica: N Perchiassio, L Folco, P Rochette
0930h MPM01204L Color and morphologie of plasers diamond is index genesis of bedrock source: R Rodin, L Gess
0945h MPM01205L Infrared spectroscopic features of natural diamonds with one-type habit and facet relief of spatially disconnected deposits: O Kovalchuk, I Bogush
1030h MPM01206L Mineralogical materials and processes in contaminated environments with special reference to molecular-scale studies: D Vaughan
1100h MPM01207L Varicolored stream sediments in mine effluents in Luliobi mline (Liguria, Italy): C Carbone, P Marescotti, G Lucchetti
1115h MPM01208L Secondary mineral formation on a pyrite-bearing mine waste dump: I Farkas, T Weiszburg, T Váčzi, P Pekker
1130h MPM01209L Magnetic minerals in atmospheric dust from the Upper Silesian Industrial Region: T Magiera, M Jablonska, J Janusz, B Grazyna
1145h MPM01210L Cylindrical crystals of molybdenite-3R and problems of “curvedface” mineralogy: N Yushkin
1400h MPM01211L Origin of djerfischerite from dunite of the Guli massif (Polar Siberia): O Thalhammer, F Zaccarini, F Princivalle, D Lenaz, C Stanley, G Garuti
1415h MPM01212L Re-examination of the crystal-chemistry of aeginitmate: Electron microprobe analyses, structure refinement, and Mössbauer spectroscopy of aeginitmate from Vesteroyya, Sandefjord, Oslo Igneous province: E Drew, U Halenius, M Pasero
1430h MPM01213L Typomorphic features of tourmaline from some types of hydrothermal deposits: I Baksheev, V Prokof'ev, V Ustinov, G Zaraisski
1445h MPM01214L Pyrochlore-minerals from Brazil: Ideas for nomenclature: M Andrade, D Atencio
1500h MPM01215L Type mineralogy of Brazil: An updating: D Atencio
1515h MPM01216L Mineralogical-geochemical indicators of hypogene native gold redistribution processes in the weathering crusts: Y Kalinin, M Kirillov, K Kovalev, E Naumov
1600h MPM01217L Paragenesis of rare calcium-silicates from tertiary basalts of Racos (Romania): F Kristály
1615h MPM01218L Diffusion in minerals: What produces violations of elastic-strain theory?: W Carlson
MPM01219P Copper investment in Jordan: K Shawabkeh
MPM01220P 3T stacking order in a Li-poor triocatohedral mica: R Fregola, G Capitani, L Ottolini, E Scandale

MPM01221P A mineralogical study of REE minerals in Higashimatsuura basalt, Saga Prefecture, Kyushu, Japan: Y Takai, S Uehara
MPM01222P Analcite-bearing rocks of the Timan region: D Shushkov, O Kotova
MPM01223P Analysis on the mine environment geologic problems in southeast China: Y Dong
MPM01224P Baghadite from carbonate xenoliths in basite-ultrabasite rocks of Dovveren massif: I Galusksina, M Kadiyski, T Armbruster, E Galuskin, N Pertsev, A Zadov, E Kislov, J Janeczek
MPM01225P Bentonite characteristics from the Drnno locality (Serbia): S Dusanic, P Tancic
MPM01226P Characteristics of the bauxites from Grebik Mt. (SW Serbia): Z Cvetkovic, P Tancic
MPM01227P Cryptic structure (primary lumpiness or rock unit cells formation – frastumation) – the first discovery of the rock macroscopic stereological property: M Povarennykh
MPM01228P Crystal chemical studies in the malachite rosasite group: the crystal structure of kolvweite (Cu,C0),,CO(OH); N Perchiassio
MPM01229P Environmental impact of pyrite with different textures in mining areas: R Atanassova
MPM01230P Eudialyte-group minerals as an example of solid solutions with a varying number and composition of atoms in the structural sites: A Khomyakov
MPM01231P High-temperature calcic skarns in Romania: A mineralogical view: S Marinacea, D Dumitrasc, N Antai
MPM01232P Isomorphism and genesis os yushkinite: N Kovalchuk
MPM01233P Knowledge gaps in the understanding of mercury pollution from gold mining: K Telmer
MPM01234P Mineral composition of indoor dust in Upper Silesia (Poland): M Jablonska, J Janeczek, J Wiedermann, K Radwanski
MPM01235P Mineralogical features and heavy metals in soils from Dzexing porphyry copper ore field, Jiangxi province: J Cai, G Zhang, J Li, Y Zhao, Q Xiong
MPM01236P Mineralogical study of the wild carp’s otoliths from baiyangdian lake and miyun reservoir and their environmental responses: L Yang, S Li
MPM01237P New data for minerals of CaZrO3-, CaSnO3-,CaTiO3 system: E Galuskins, J Galuskina, V Gazeev, N Pertsev, A Winiarski, A Zadov, P Dzierzanoski
MPM01238P New type of atogenic electric-discharge metamorphism-phytifiablegurites: A Lysiuk
MPM01239P Ni-Co-Fe diarsenides from metamorphic-hydrothermal arsenide-carbonate veins, Noril’sk ore field, Russia: Y Grišenko
MPM01240P Occurrence and mineralogy of serpentine minerals in the calc-silicate rock sheets from bonghwang, South Korea: S Baek, J Hwang, K Kwack, J Oh, H Lee
MPM01241P Occurrence and characterization of As-bearing fluorapatites from metasomatized benmoreitic lavas: A Gianfagna, S Mazziotti Tagliani

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium's oral presentations.
Thursday 0830h
MRC-08 Geological construction materials – Part 1

0830h Introduction B Schouenborg

0845h MRC08201L Towards a harmonised policy framework for safeguarding mineral resources in Europe: A national case study from England: F McEvoy, J Cowley, K Hobden

0900h MRC08202L Results of rock aggregate inventories at GTK and use of them in land-use planning: P Harma, N Heikki, J Vuokko

0915h MRC08203L Sustainable management of aggregate resources in Norway: R Dahl, E Erichsen, K Wolden, P Neeb, A Ulvik

0930h MRC08204L An accounting system for resources in rock aggregate quarries of the Uusimaa region in southern Finland: H Nurmi, P Harma

0945h MRC08205L An open-source GIS approach for a new abandoned quarries plan: M Cenci, C Cencetti, A Freduzzi, I Marchesini, E Martini, A Monsignori, P Tacconi

1030h MRC08206L Sustainable use of aggregates – from regional planning to post-treatment: J Rintala, R Britschgi, M Räisänen

1045h MRC08207L Lightweight expanded slate aggregate for geotechnical applications: R Bilqees, T Tahirkheli, N Pirzada

1100h MRC08208L A revised ethylene glycol test for assessing the durability of basic crystalline materials for road aggregate: P Paige-Green

1115h MRC08209L Wearing of fine-grained aggregates in noise reducing pavements and generation of dust: A Torppa, M Räisänen, M Mertamo

1400h MRC08210L The relationship between aggregate impact value and Los Angeles abrasion value of fresh rocks in Sri Lanka: U Jayawardena

1415h MRC08211L The effect of micro-fractures on the aggregate quality – limestone deposit Nielsepice as a case study (Krakow-Wieluin Upland, S Poland): B Figarska-Warchol, J Bromowicz

1430h MRC08212L Alkali-silica reactivity of different natural sands: A Tudrul, S Hasdemir, M Yilmaz

1445h MRC08213L Microcrack quantification of dimension stones by image analysis: F Navarro, A Artur

1500h MRC08214L Performance of porous limestone in monuments; the role of fabric in assessing the durability of Hungarian porous limestones: Á Tórók

1515h MRC08215L Degradation of dimension stone used as flooring – Diagnosis studies: M Barros de Oliveira Frasca

1600h MRC08216L Detecting weathering related changes in porous limestone by using Computer Tomography: Á Tórók, T Földes

1615h MRC08217L Mineralogical and micro-structural characterisation of discontinuities in natural stone and their mechanical improvement using consolidants: A Lopez-Buedia, C Guilm, J Cuevas, F Mateos, M Montoto

1630h MRC08218L Influence of impregnation treatment on porosity and absorption properties of stone by means of gas adsorption and mercury porosity: A Mauko, J Cretnik, A Mladenovic, M Golež

Thursday 0830h
MRD-04 Giant ore deposits

0830h MRD04201L Systems that produce giant metal accumulations: P Lazzicka

0900h MRD04202L Geochemical systems of ore deposits: A possible source of metals: I Goldberg, G Abramson, V Los, V Nazarov

0915h MRD04203L (1:25M) World metallogenetic map of large-superlarge deposits and global metallogeny with mineral assessment: R Pei, R D.V., Y Mei, C Sergei, H Wang, L Li, Y Wang

0930h MRD04204L Geochemical indications of large and unique deposits: A Golovin, I Krinochkin, Y Nikolaev

0945h MRD04205L Periodization of the Earth geological history according to metallogenic data: D Rundqvist, A Tkachev

1030h MRD04206L Supermountains and the genesis of supergiant sediment-hosted stratiform copper deposits: R Squire, R Keays

1045h MRD04207L Sulfide anatexis during granulite facies metamorphism and formation of sulfosalts-rich ores in the Rampura-Agucha massive sulfide deposit, northwestern India: B Mishra, H Bernhardt

1100h MRD04208L Jade in Myanmar: D Kirwin

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium's oral presentations.
1115h MRD04209L The Spinifex Ridge 3.3 Ga porphyry-style Mo-Cu deposit, East Pilbara, Western Australia: M Barley, H Stein, B Cummins, A Bekker
1130h MRD04210L Magellan non-sulfide Pb and polymetallic Abra: Two stratabound giant deposits: P Pirajno, R Burlow, A Thorne
1145h MRD04211L The Navan Orefield, Ireland – structural control of a word-class carbonate-hosted Zn-Pb deposit: J Ashton, D Coller, A Beach, R Blakeman, J Geraghty, M Philcox
1400h MRD04212L The Aitik copper mine, Sweden – Exploration and expansion: R Nordin
1415h MRD04213L Giant hydrothermal uranium deposits in the eastern Saxo-Thuringian zone, Germany: T Seifert

MRD04214P Copper in Iran: M Ghorbani
MRD04215P Giant mineral deposits of Kazakhstan: Geological and geodynamic setting, evolution in time: M Rafailovich, B Yzhenkov, O Fedorenko, A Smirnov, B Dyachkov
MRD04216P Geological and geochemical characteristics of super-large-scale sedex-type stratiform lead-zinc deposits in adu river valley, Sichuan, China: F Lin
MRD04217P Geochronology and the Pb, Sr and Nd isotope signatures for crustal source of the Sukhoi Log large-scale noble metals deposit, Baikal-Patom highland, Russia: N Laverov, I Chernyshev, A Chugaev, V Lebedev
MRD04218P Periodicity of formation of red bed copper deposits and phosphorites: Y Malinovsky, I Gablina
MRD04219P Two generations of quartz in Witwatersrand: A Kremenetitskiy, I Maksimyuk
MRD04220P Metallogeny and economic potential of tungsten deposits in the Erzgebirge, Saxony/Bohemia: T Seifert, D Sandmann
MRD04221P Research on element geochemistry characteristics in coal-ge deposit in Shengli Coalfield, inner Mongolia of China: W Huang, G Du, H Wan, L Sun, Y Ma, X Tang, W Wu, S Qin

1030h OSP02206L Geophysical exploration of the Arctic ocean: Y Kristoffersen
1045h OSP02207L Potential field data and modelling as robust supplementary and constraining tools on crustal structure architecture at frontier margins: Examples from the northeastern Brazilian margin, and the conjugate Argentine-Namibia margins: O Blaich, F Tsikalas, J Faleide, E León, R Sakariassen
1100h OSP02208L Marine gravity from satellite altimetry and the search for seamounts and oceanic fracture zones: P Wessels, S Kim, M Chandler
1115h OSP02209L A mid-Cretaceous seafloor spreading pulse caused global sea level rise: Fact or fiction?: D Muller, M Srدولاسی, C Gaina
1130h OSP02210L My presentation and the future: M Talwani

OSPO2211P The Gulf of Izmit, a key area to understand the activity of the North Anatolian Fault in the Eastern Marmara Sea by multi-channel seismic reflection data: H Kurt, E Yucesoy
OSPO2212P Tall volcanic edifices on MOR spreading plate boundaries: Review and synthesis: P Vogt, P Michael, S White, K Macdonald

Thursday 0830h
PEH-01 Hazards: minimizing risk, maximizing awareness - Part 1

0830h PEH01201L Disaster reduction and the Hyogo Framework: Scaling up action to reduce vulnerability to natural hazards: B Reid
0900h PEH01202L Geological hazards and the Hyogo Framework of action: O Kjekstad
0930h PEH01203L Hydrometeorological hazards: progress on modelling, analysis, mapping, prediction, and practical application to reduce risks: G Maryam
1030h PEH01204L Minimising risk, maximising awareness: The hazards theme of the international year of planet earth: T BEER
1100h PEH01205L ICSU regional office for Asia & Pacific (ROAP): Plan to mitigate natural hazards: H Gupta
1130h PEH01206L Minimising Risk: Maximising Awareness â€œ focusing on the environment and human security nexus: J Bogardi, J Villagran de LeÃ³n, D Sakulski
1400h PEH01207L Integrated research on disaster risk - the challenge of natural and human-induced environmental hazards: G McBean
1430h PEH01208L Geohazards in Africa: G Mulugeta
1500h PEH01209L Meteorological Hazards in Africa (IYPE Megasymposium PEH-01): A KONARE, P Dube
1600h PEH01210L Towards better management of hydro-meteorological hazards in the Asia-Pacific Region: L Ti
1630h PEH01211L Communicating geological hazards: Educating, training and assisting geoscientists in communication skills: D Liverman
Thursday 0830h
STN-01 General contributions to neotectonics

0830h STN01201L Review of active faults in slowly deforming regions: The western Europe case: M Sebrier
0900h STN01202L Seismo- and neotectonics in Norway and adjacent offshore areas: H Bungum
0930h STN01203L Neotectonics and the concept of a Neotectonic period: N Mørner
1030h STN01204L Tectonically controlled alpine ranges in Norway: A recipe for disaster: P Osmundsen, T Redfield, B Hendriks, J Henderson, J Dehls, T Lauknes, Y Larsen, B Davidsen, S Bergh, E Anda
1100h STN01206L Finite-element models on spatiotemporal variations in the slip rates of active faults caused by postglacial unloading and rebound: T Karow, A Hampel
1115h STN01207L The Cenozoic intraplate deformation of Northwestern Eurasia as a result of active processes at the Eurasian plate boundaries: M Kopp
1130h STN01208L The Sudetic Marginal Fault as one of principal morphotectonic structures of the eastern portion of the European Cenozoic Rift System: J Badura, W Zuchiewicz
1145h STN01209L Changing tectonic styles of recent and active structures in the Rif Cordillera and asymmetry in respect to the Betic Cordillera (Western Mediterranean): J Galindo-Zaldívar, A Chalouan, P Ruano, O Azzouz, C Marin-Lechado, A Pedrera, A Ruiz-Constán, F Anahnah, M Benmakhlof, C Sanz de Galdeano, M Ahmamou, A Lopez-Garrido, L Ameza, R Francisco Javier, A Chabli, M Akil
1400h STN01210L Deep structure of a mountain front with olistostrome development from gravity, MT and seismicity data (Guadalquivir basin, central betic Cordilleras): A Ruiz-Constán, J Galindo-Zaldívar, C Marin-Lechado, F Anahnah, F Roldán
1415h STN01211L Renewable mineral resources and neotectonics: L Krasny, M Krasny
1430h STN01212L Neogen stratigraphy along the North Anatolian Fault in the Marmara region, northwest Turkey and its tectonic implications: H Koral, H Emre
1445h STN01213L Morphotectonics of the Amasya Plain: Basin formation on the Sungerluft fault of the North Anatolian Shear System, North Central Anatolia: M Erũraç, O Tüyüşüz, N Kıyık Guneç
1500h STN01214L Complex evolution of the Suluova Basin: A major depression formed on the North Anatolian Shear System, North Central Anatolia: M Erũraç, O Tüyüşüz
1515h STN01215L Late Pliocene-Pleistocene paleostress regime in the Gulf of Izmit and surroundings, NW Turkey: U Tañ, O Tüyüşüz
1600h STN01216L Effects of Aegean and Cyprus tectonic arcs to the southwestern Taurus, SW Turkey: E Karaman, G Akan
1615h STN01217L Lakes and palaeolakes of Lahul-Spiti and Kinnaur Himalayas: Societal, geoscientific and Quaternary heritage management implications: A Ahluwalia
1630h STN01218L Effects of Quaternary faulting on major fluvial systems, northeast margin of Tibetan plateau, China; K Zhang, Z Ma, Y Tang, S Liu
1645h STN01219L The Red River Fault Zone in Vietnam: Pliocene-Quaternary dextral slip in the light of geomorphic studies: W Zuchiewicz, N Cuong
1700h STN01220L An overview of the neotectonics of Australia: The not so stable continent: D Clark
1715h STN01221L Shallow seismicity in Western Australia investigated with long-term InSAR observations: J Dawson, P Cummins, P Tregoning, M Leonard

STN01223P Prospecting active faults for the seismic risk reduction: S Aourari
STN01224P Geomorphic features of tectonic movement during later stage of late Pleistocene in the Xinding basin: J Řen, S Zhang
STN01225P Drainage anomalies areas as soft-linkage indicators in Quaternary linked fault systems: C Terrizzano, J Cortes
STN01226P Investigation of neotectonics of South Ural based on geological mapping, remote sensing data and digital elevation models: B Georgievskiy
STN01227P Quaternary vertical velocity profiles across the forearc in the northeastern Japan subduction zone -Different directions and rates between the geological and geodetical deformations: T Matsu'ura
STN01228P Deep structure of lithosphere in Altai-Sayan seismic region on evidence derived from earthquakes and powerful vibrator sources: A Salnikov, V Seleznëv, V Solovyov, A Emanov
STN01229P Analysis of active tectonic in north west of Birjand (East of Iran): M Morteza
STN01230P Extension in the Reykjanes area, SW Iceland – structural analysis employing remote sensing and Kinematic GPS measurements: M Helbig, M Buchwitz, R Glaoguen, A Clifton
STN01231P Characterization of the seismogenic source of the great 1905 Calabria (southern Italy) earthquake from environmental effects: Lucci, A Turtulliani
STN01232P Hillslope adjustment to rejuvenation induced by active normal faults: forward sequential migration of extension related with the exhumation of the sierra nevada dome: J Azañón, G Booth-Rea, V Perez-Peña, J Delgado, P José Luis, J Rodríguez-Fernández, R Mateos, A Azor
STN01233P Deep geometry of active faults in the Kinki triangle, central Japan: Results of deep seismic reflection profiling: N Kato, H Sato, S Abe, T Kawanaka
STN01234P Effect of the North Anatolian fault on the evolution of Lake İznil, Turkey: K Ozturk, C Yaltırak, B Alpar, D Vardar

STN01236P How important is tectonics in creating relief in mountain ranges?: J Champagnac, P Molnar, C Sue

STN01237P Paradoxical character of fracture neotectonics in Saamsky open pit (Khibiny): D Zhiro, A Kozyrev, E Kasparjan, Y Smagina

STN01238P Active faults affecting the city of Athens, Greece: T Rondyanni, C Georgiou, A Livaditi

STN01239P Active tectonics and deformation pattern in the central Adriatic sea: Evidence by integrating seismic profiles, GPS data and focal mechanisms: A Argnani, C Bonazzi, S Pondrelli, M Rovere, E Serpelloni, G Vannucci

Thursday 0830h
STT-01 General contributions to tectonics and structural geology – Part 2


0915h STT01213L Synchronous high-angle and detachment-related shear zones associated with magmatism: Data from the Early Miocene Alacuamada granitoids, western Turkey: F Erkil, E Bozkurt, H Sosbilir, C Helvaci, C Tatar-Erkul

0930h STT01214L Kinematically linked strike-slip faults, normal faults and metamorphic core complexes in extended orogen: H Sosbilir

0945h STT01215L New insights into a Neoproterozoic to Cambrian rifted arc in south-eastern Australia from integrated mapping, potential field inversion, and 3D modelling: R Musgrave, J Greenfield, S Dick

1030h STT01216L The existence of remnants of ancient oceanic crust in northeastern Vietnam and its implication to the tectonic evolution of Paleotethys: H Tran

1100h STT01217L Geodynamic model of the Earth’s crust in the northeast of Eurasia derived from integrated studies along the 2-DV geotraverse: A Migursky, A Salnikov, F Migursky, P Sobolev

115h STT01218L Coexisting pseudotachylyte and mylonite in the brittle regime from shearing experiments on halite at seismic slip rates: J Kim, J Ree, T Shimamoto, R Han

1130h STT01219L Quantification of spatial distribution of phases using multiple area density map method: S Kim, J Ree

1145h STT01220L Principles and basises in the stage-dividing of tectonic movements: H Zou, R Han, W Fang, M Liu

1400h STT01221L The oil/gas boiling inclusion and its geological significance: G Xie, Z Zheng, R Li, H Dong, K Bai

1415h STT01222L Statistical data and synthesize on Mesozoic magmatism of Gangdese Tibet, China: S Zhou, X Mo, Z Zhao, C Liu

1430h STT01223L Mesozoic-Cenozoic tectonic evolution of the south-eastern Levant margin: C Hardy, C Homberg, Y Eyal, E Barrier, C Muller

1445h STT01224L Regional gravity and magnetic anomaly interpretation on Tibet structure and sediment basins: M Zhang, J Qiao

1500h STT01225L Structural evolution of the basement and activity of salt structures in Firuzabad Area, Zagros, Iran: M Pirouz, A Bahroudi, G Neda

1515h STT01226L Potash and salt plays in salt glaciers: R Farhadi

1600h STT01227L Dinosaur tectonics – structural geology of dinosaur undertracks: O Graversen, J Milan

1615h STT01228L Evolution of the gneissic basement through superposed deformation and superposed magmatization around Jashidi, eastern India: S Sengupta

1630h STT01229L Fault Rocks in the deepest parts of the ductile shear zones: A Karki, S Paulamaki

1645h STT01230L Formation and deformation of the Norwegian ‘Old Red Sandstone’: An overview: P Osmundsen, T Andersen, A Braathen, D Roberts

1700h STT01231L A study of the complex basin structure of Andoya and Andfjorden from high sensitivity aeromagnetic data: M Broenner, O Olesen, J Koziel, T Henningsen, P Midboe

Thursday 0830h
UHP-02 Collisional orogeny, ultrahigh-pressure metamorphism and crustal melting

0830h UHP02201L Hydration, dehydration, and melting of upper crustal rocks at high pressure and ultrahigh pressure conditions: H Massonne

0900h UHP02202L Fluid flow during exhumation of deeply subducted continent: Evidence from zircon trace elements, U-Pb and O isotopes in quartz vein and host UHP eclogite: Y Zheng

0930h UHP02203L Fluid/melt activities and a partial melting process during exhumation of the subducted continental crust in the Sulu UHP terrane, China: H Li, K Ye, J Liu, Z Tian

0845h UHP02204L Peak P-T conditions and metamorphic evolution of the UHP eclogite from the western Dabieshan: C Wei, J Zhang

1030h UHP02205L Reduction induced exsolution of sulfide lamellae from eclogitic apatites: Z Linsen, L Fenghua, C Zhengyu, C Jing

1100h UHP02206L High pressure fractional crystallization of granitic melt induced by dehydration melting of phengite in ultrahigh-pressure eclogite (Taohang, northern Sulu, eastern China): Implication for crustal ultrapotassic alkali Fs. syenite magmatism: K Ye, J Liu

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.
1115h UHP02207L Correlated Sr-Li isotope fractionation during deep subduction: A cause for Sr-isotope heterogeneities in the mantle: *Y Xiao*, S Li

1130h UHP02208L Geochemistry of rodingite derived from eclogite, western Tianshan, China: Implication a source for trace-element recycling in subducted serpentinite complex: *X Li*, L Zhang

1145h UHP02209L Major and trace element geochemistry of continental adakite-like rocks – A case study of post-collapse felsic igneous rocks from the Dabie orogen: *Y He*, S Li, J Hoefs

1400h UHP02210L Deep subduction of voluminous continental materials of Sulu UHP terrane: *F Liu*

1430h UHP02211L The tectonic model of a paired metamorphic belt for UHP meta-ophiolitic belt in western Tianshan, NW China: *L Zhang*, Z Lv, j Du, S Song, C Wei

1445h UHP02212L Petrology of coesite-bearing rocks from Western Tianshan, China: *Z Lu*, L Zhang, K Bucher

1500h UHP02213L Zircon U-Pb age and geochemical constraints on the tectonic affinity of the Jiadong terrane in the Sulu orogen, China: *J Tang*, Y Zheng, Y Wu

1515h UHP02214L Why ultrahigh metamorphism (UHP) occurred locally in the Himalayan and dabie-hongseong collision belts: *C Oh*

UHP02215P The release of H2O from ultrahigh-pressure (UHP) granitic rocks during the process of exhumation: Implicated by chloride-zoning of apatite and amphibole: *L Liu*, L Wen Yuan, K Ye

UHP02216P The geochemical characteristics of the metabasites from Ganghe, Dabie mountains, China: *Z Xie*, J Chen

UHP02217P The origin study of the garnets from the tonalites, Susita Valley: *C Enea*


UHP02219P Deformation as the cause of UHP-metamorphism of rocks in shear zones: *V Travin*, *N Kozlova*

Thursday 0830h

UNC-01 The ocean floor and the sea

0830h UNC01201L Projected workload of the commission on the limits of the Continental Shelf for the period 2007-2012: *P Croker*

0900h UNC01202L Marine natural resources and UNCLOS implications: *C Reichert*, H Rempel, M Wiedicke, Š Žaric

0930h UNC01203L Joint and other coordinated multi-state submissions under Article 76 of UNCLOS – weighing up the advatanges and disadvantages: *L Parson*

Thursday 0830h

WMA-02 OneGeology-Transparent Earth

0830h WMA02201L OneGeology – from concept to reality: *I Jackson*

0900h WMA02202L The OneGeology portal: What it does and how it works?: *F Robida*, J Serrano

0915h WMA02203L The OneGeology business model: Funding, data access, sustainability, and other challenges: *J Broome*

0930h WMA02204L OneGeology: Assisting Geological Surveys worldwide to interoperate seamlessly on the next generation internet: *L Wyborn*, S Cox, R Woodcock

0945h WMA02205L How your country can contribute to OneGeology: A straightforwad introduction to the technical aspects: *T Duffy*, M Sen, J Serrano

1030h WMA02206L The contribution of the geological survey of Italy to OneGeology initiative: *C Cipolloni*, M Pantaloni, R Ventura

1045h WMA02207L The swedish part of the geological map of the Fennoscandian Shield database as a contribution to OneGeology: *L Stölen*, M Ahl, J Holmberg, T Lindberg

1400h WMA02208L OneGeology-CCOP: Toward interoperable and accessible geologic maps in East and Southeast Asia: *M Uzarraga*, K Wakita

1415h WMA02209L The OneGeology Project: The view from Chile: *P Cornejo P.*, P Gana F.

1430h WMA02210L Delivering Ireland's geological map data – a map for OneGeology: *M Carter*, G O'Shea, B McConnell

1445h WMA02211L The U.S. National Geologic Map Database -- A microcosm of OneGeology?: *D Soller*, D Percy, S Richard, J Craigue, N Stamm

1500h WMA02212L Introduction of dynamic geological map of Iran with scale 1:1000000 (Production procedure, capabilities, results): *J Alireza*, M Sahandi, S Delavar

1515h WMA02213L CGMW Geoscientific maps and one geology initiative: *P Rossi*

1600h WMA02214L How can a continental approach contribute to a global approach: The IGME 5000 and OneGeology: *K Asch*

1615h WMA02215L Global mapping and its implementation: *Y Fukushima*, K Nakagawa, T Tsutsui, K Wakita

1630h WMA02216L From 1:1 million geology to high resolution applications for society: *H Thorleifson*

WMA02217P From geological details to OneGeology – quarternarians challenges: *D Galazka*, W Gogolek, M Zarcki, A Tekielska, S Lisicki, M Nowacka, *U Stepien*

WMA02218P The 1: 1 000 000 geological map spatial database of China: *K Han*, X Ding, J Pang, X Ke

WMA02219P Geological map of Colombia 2007 as a contribution to one geology project: *J Gómez Tapia*, A Nivia, N Montes, M Tejada

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.

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Thursday 7 August – Late Morning

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The following symposia begin in this session. Some symposia continue on the next day. Next day presentations may be found in the next day section.

Thursday 1030h
CGC-03 Solar drivers of climate change and the stratigraphic record

1030h CGC03201L Solar irradiance variability and climatic responses: A brief review: W Soon
1100h CGC03202L Cosmic rays and earth climate: H Svensmark
1130h CGC03203L Cosmic rays and global warming: T Sloan, A Wolfendale
1145h CGC03204L Physics of Cosmic-Ray/climate connection involves ocean conveyor belt time delay: C Perry

1400h CGC03205L Atmospheric Be-10 as a stratigraphic tracer and climate indicator: I Graham, R Ditchburn, R Carter
1430h CGC03206L Assessing natural climate variability during the past 10,000 years from stalagmite records: A Mangini

1500h CGC03207L Modelling solar forcing and the magnetic field signature on Atmosphere-Ocean systems over the past 15,000 years: Evidence from fixed intertidal biological indicators of the southern hemisphere: R Baker

1515h CGC03208L A possible role of the solar inertial motion in climatic changes: I Charvatova, P Hejda
1600h CGC03209L Biospheric coupling of terrestrial water and carbon fluxes: Implications for the climate system: J Veizer, P Ferguson

1630h CGC03210L Relationship between the global monsoon intensity and the effective solar radiation in the last millennium: J Liu, B Wang, W Soon
1645h CGC03211L Correlation of climatic and solar variations over the past 500 years and predicting global climate changes from recurring climate cycles: D Easterbrook

1700h CGC03212L Solar-terrestrial interaction on a decadal time-scale: A novel line of interconnection: N Mörner
1715h CGC03213L The sun controls it all: F Goldberg

Thursday 1030h
GTN-04 Visualization and innovative techniques in geosciences

1030h GTN04201L In-situ 3D mapping using augmented reality systems: L Ailleres, T Rawling, A Stryk, W PiekarSKI
1100h GTN04202L 3D property modeling of void ratio by cokriging: L Yao, Q Cheng, M Pan

1115h GTN04203L Visualization of geological grids: T Viard, G Caumon, B Levy, J Royer
1130h GTN04204L Seismic tomography in studying the Earth’s crust of northeastern Russia: A Salnikov, V Kuznetsov, V Zurkov, A Lipilin, V Selezniev, V Solovyov, A Emanov
1145h GTN04205L The value and utility of 3D seismic post-stack post processing in a structurally complex environment: A ncs case study: P Spencer, G Fisher, J Henderson
1400h GTN04206L An artificial intelligence approach for the prediction of maximum dry density of stabilized soil: A Alavi, A Heshmati, A Gandomi
1415h GTN04207L Inverse strain modeling of displacement/velocity data using the program SSPX: N Cardozo, R Allmendinger
1430h GTN04208L GIS-based exploratory spatial data analysis for geochemical mapping: Z Chen, Q Cheng, J Chen
1445h GTN04209L Coltop-3D: A software for analyzing landslides using 3D imaging cloud points: R Metzger, M Jaboyedoff, M Derron

GTN04210P 3D visualization of historical Keretti and Vuonos sulphide ores within Outokumpu ore district in eastern Finland: E Laine, K Salminen, J Mäntysalo, M Kortelainen, J Lessi, J Ojala, N Pattison, N Salminen, T Tervo


GTN04212P Geological environment research and structural design based on building wind oscillation observations: G Antonovskaya


Thursday 1030h
MRD-02 Deep sources and signatures of ore forming systems – a tool for new discoveries of mineral deposits

1030h MRD02201L Traces of ore-forming heat-and-flow paleo-systems: S Cherkasov
1100h MRD02202L Role of the thermal structure of the lithosphere for hydrothermal ore deposits: K Gessner, M Kuehn, B Hobbs
1115h MRD02203L Using geomodelling and geophysical Inversion to Evaluate the Geological Controls of Low-Sulphidation Epithermal Au-Ag mineralisation: Does the Magnetic Input Count?: L Feltrin, T Baker, M Scott, N Oliver
1130h MRD02204L Yanshanian (Jura-Cretaceous) igneous processes and metallogenesis of the Taihangshan-Yanshan-WestLiaoning orogenic belt, North China: J Deng, S Su, C Liu, G Zhao, S Zhou, Z Wu
1145h MRD02205L Large skarn-type mineralization connected to late to post tectonic Precambrian
granitoid intrusions in southeast Sinai, Egypt: H Helmy, H Abdel Rahman
1400h MRD02206L Deep signatures of a world-class archaean gold system: R Blewett, B Goleby, P Henson, D Champion, I Roy
1430h MRD02207L Integrating exploration dataset in GIS using index overlay inference modeling in Ferdows-Khousf zone: M Esfahaninejad, M Moradi
1445h MRD02208L The dynamical interactive model of development of the Central Kyzylkum Ore-Magmatic Concentre (CKOMC) using GIS & RS, Western Uzbekistan: I Sidorova
1500h MRD02209L Model of formation of porphyritic deposits: Y Puchkov
1515h MRD02210L Transport of Au, Cu and Sn by vapor phase in hydrothermal systems: Experiments and case study: S Hu, R Zhang, X Zhang
1600h MRD02211L Detection of large mid-crustal sills by receiver function analysis: A program that could be useful in exploring for mineral deposits in remote areas: L Cathles, B Larry, H Devid
1630h MRD02212L Bright spots: Deep seismic imaging of crustal fluids: L Brown
1645h MRD02213L Tectono-geochemistry ore-finding method for concealed ore-bodies as exemplified by the Zn-Pb-(Ag-Ge) metallogenic district in Northeast Yunnan, China: R Han, H Zou, B Li, Y Hu
MRD02214P Fluidizate-explosive rocks and formations (on the materials of the Ukrainian Shield): G Yatsenko, E Slivko, O Gayiovsky, V Lavro, V Yatsenko

MRD02215P The Paleoproterozoic mantle-crustal Cu-Ni ore-forming system of the Pechenga ore district (Fennoscandian shield): K Lobanov, V Kazansky
MRD02216P Geological characteristics of sedimentary exhalative deposits and their relationships to hydrothermal sedimentary rocks in western Qinling Mountains Region (China): Y Zhou, H Li, Z Yang, J He, W Li, Z Gu, W Lu, J Zhao
MRD02217P Deep evidences for carbonatite-alkali-ultramafic complexes in the frames of the Anabar Shield, Siberia: N Vishnevskaya
MRD02218P Fahlerz as facies of depth formation indicators at plutonogenic hydrothermal gold-quartz deposits: E Spiridonov, S Filimonov
MRD02219P Spatial periodicity of diamondiferous systems as the wave phenomena indication caused by mass uplift: A Baryshev

Thursday 1030h
UNC-02 Legal and scientific interface issues
1030h UNC02201L Determination of the maximum change in gradient at the base of the continental slope – FOS-point determination: H Eysteinsson, K Agustsson
1100h UNC02202L The continental shelf: Legal adaption and transformation of geomorphologic concepts: K Bangert
1130h UNC02203L The complex relationship between the prominent sedimentary features and FOS selection: S Maclachlan, G Elliott, A Evans, L Parson

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Thursday 7 August – Early Afternoon

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The following symposia begin in this session. Some symposia continue on the next day. Next day presentations may be found in the next day section.

Thursday 1400h

AMS-07 Crustal evolution of the cratonic nuclei of South America

1400h AMS07201L Geodynamical evolution of the Transamazonian belt of the southeastern Guiana Shield – north of Amazonian Craton; Paleoproterozoic crustal growth vs. reworking of Archean crust: L Travassos da Rosa-Costa, J Lafon, C Delor

1430h AMS07202L Granitoid magmatism and crustal evolution of the Carajás province, Amazonian craton: R Dall’Agnol, M Oliveira, J Almeida, D Oliveira, F Althoff, C Barros, A Leite

1445h AMS07203L Assembly of the Sao Francisco-Congo paleocontinent: New SHRIMP U-Pb data from the eastern Brazilian margin: L Da Silva, A Pedrosa Soares, C Noce, I Delgado, R Armstrong, N McNaughton

1500h AMS07204L Use of airborne gamma-ray dataset for deciphering the crustal evolution of the circum-Atlantic Precambrian provinces in Africa and South America: P Ledru

1600h AMS07205L Caurane – Coerocene belt – the tectonic southern limit of the preserved rhyacian crustal domain in the Guyana shield, northern Amazonian craton: L Fraga, N Reis, R Dall’Agnol, R Armstrong

1630h AMS07206L The Paleoproterozoic in South America: Tectonic diversity in time: B Brito Neves

1645h AMS07207L Paleoproterozoic evolution of the Mineiro belt, São Francisco Craton, reviewed: W Teixeira, C Avila

1700h AMS07208L The basement of the Rio Apa craton in mato grosso do sul (Brazil) and northern Paraguay: Tectonic implications and correlations: C Cordani, C Tassinari, W Teixeira, J Coutinho

AMS07209P Tectonic and magma flow fabrics of the Proterozoic Salvador dike swarm, São Francisco Craton (NE Brazil), inferred by magnetic anisotropies: I Raposo, T Berquó


AMS07211P Mesoarchean sanukitoid rocks of the Rio Maria Granite-Greenstone terrane, Carajas, Amazonian craton: M Oliveira, R Dall’Agnol, F Althoff, A Leite

AMS07212P Nature and role of the Paranapanema lithospheric block in the fusion of Gondwana: M Mantovani, B Brito Neves

AMS07213P The four archean crustal segments of São Francisco craton, Bahia, Brazil and their Paleoproterozoic collision: J Barbosa, P Sabaté

AMS07214P Paleoproterozoic bimodal volcanism of the São Félix do Xingu region, south Pará state, Amazonian Craton, Brazil: C Fernandes, C Juliani, C Moura, B Lagler

AMS07215P U-Pb and Sm-Nd constraints on the nature and evolution of Paleoproterozoic juvenile crust in the Tocantins Province: M Della Giustina, C Oliveira, M Pimentel, L Melo, R Fuck, E Dantas, B Buhn

AMS07216P Sr – Nd isotopic and trace element characteristics of the Mesoproterozoic mafic intrusive rocks from Rondonia, SW Amazonian Craton: V Girardi, W Teixeira, J Bettencourt, S Andrade, M Navarro, K Sato

AMS07217P Lamprophyres of the central Guyana shield, northern Amazonian craton: A Dreher, L Fraga, H Grazzianti, J Lafon

AMS07218P Mesoarchean tonalite-trondhjemite-granodiorite (TTG) associations of the Rio María Granite-Greenstone Terrane, Amazonian craton: J Almeida, M Oliveira, R Dall’Agnol, A Leite, F Althoff

AMS07219P Proterozoic Paleogeographic evolution of South American Cratons: M D’Agrella-Filho, R Trindade, E Tohver, F Bispo-Santos, S Elming, I Pacca

AMS07220P Relationships between geological units in the southern edge of the São Francisco Craton: L Hirata Godoy, M Dias Alvim, C Del Roveri, N Morales, A Zanardo

Thursday 1400h

CCC-03 Focused fluid expulsion in hydrothermal and sedimentary systems: Mechanisms and effect on climate and biosphere

1400h CCC03201L Methane emission from earth degassing and the atmospheric greenhouse gas budget: G Etiope

1430h CCC03202L Triggering and evolution of the Lusi Mud Volcano, Indonesia: A Mazzini, H Svensen, S Planke, G Akhmanov

1445h CCC03203L Pockmarks in the Norwegian Channel – evidence for massive methane release at the end of the last glaciation: C Forsberg, S Planke, T Tjelta, G Svano, H Svensen, J Strout

1500h CCC03204L Bedrock and structural control on pockmark formation in the Oslofjord, Norway: A Lepland, R Boe, A Lepland, O Lutro, K Webb, O Hammer, H Olsen

1515h CCC03205L Pockmark ecology in fjords and offshore Norway: K Webb, Ø Hammer, S Planke, J Gray

1600h CCC03207L Late Jurassic chemosynthetic carbonate mounds of Svalbard (arctic Norway) – preliminary results: H Nakrem, Ø Hammer, J Hurum


Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.
1630h CCC03209L A new approach to rapid global environmental changes: Explosive venting of greenhouse gases from metamorphic aureoles around sills in volcanic basins, and the relevance for the PETM, the Toarcian, and the end-Permainian: H Svensen, S Planke, A Polozov, S Polteau, L Chevallier, N Schmiederburg, F Cortu, Y Podladchikov, B Jantveit

1645h CCC03210L Gas formation from black shale during contact metamorphism: Constraints from geochemistry and kinetic modeling: I Aarnes, H Svensen, S Polteau

1700h CCC03212L Geochemistry of contact aureoles in the Karoo Basin and the implication for the Toarcian carbon isotope excursion: S Polteau, H Svensen, S Planke, I Aarnes

Thursday 1400h

EGC-01 General contributions to environmental geochemistry – Part 1

1400h EGC01201L Endocrine disruption and epigenetics drive a revolution in the environmental health sciences: J Myers

1430h EGC01202L Floodplain health in 4d: Linking time series vegetation analysis with geomorphology and hydrogeology: K Lawrie, V Wong, M Thankappan, K Cullen, L Halas, H Apps

1445h EGC01203L The fluorine in surface waters: Origin, and weight on human health: P Valera, R Valera

1500h EGC01204L Black shale bedrock is reflected in trace element concentration profile of blood and hair of local residents: M Kantola, K Loukola-Ruskeeniemi, T Hatakka

1515h EGC01205L Changes of inorganic carbon and pH in the world ocean on geological time scale: P Makkaveev

1600h EGC01206L The anthropocene and changes to chemicals in the environment: J Plant, V Ragnarsdottir, R Salminen

1630h EGC01207L Effect of surface water infiltration on groundwater fluoride concentration close to an irrigation tank in Polonnaruwa district in Sri Lanka: A Wickramasooriya, H Dharmaganawanda

1645h EGC01208L Chemical erosion in high Alpine catchments: Water-rock interaction controlling the composition of surface water in Zermatt – Matterhorn area, Switzerland: W Zhou, I Stober, K Bucher

1700h EGC01209L Impacts of point source and diffuse metal and nutrient loading on three northern boreal lakes: J Mäkinen, T Kaupilla, K Loukola-Ruskeeniemi, J Mattila, J Miettinen

Thursday 1400h

EIL-10 Large-scale seismic transects: Images of the Earth's crust and mantle

1400h EIL10201L Crustal architecture across central Victoria, Australia, based on deep seismic reflection profiling: R Korsch, D Moore, R Cayley, R Costelloe, A Nakamura, C Willman, T Rawling, V Morand, P O'Shea

1415h EIL10202L Integrating geology with deep seismic reflection profiles: New insights into the geodynamic and architectural evolution of the Eastern Goldfields Superterrane, western Australia: R Blewett, K Czarnota, L Jones, P Henson, B Goscombe, B Goleby

1430h EIL10203L Reflection seismic images of the Early Precambrian crust of the major tectonic units within East European Craton: Data from the 1-EU, 4B, Tatseis geotraverses: M Mints, A Suleimanov, N Zamozhniaya, V Stupak

1445h EIL10204L North European transect: A Korja, P Heikkinen, Y Roslov

1500h EIL10205L A large seismic transect across the variscan belt of SW-Iberia: A multidisciplinary view: I Palomeras, M Fernandez, R Carbonell, F Simancas, P Ayarza, D Martinez Poyatos, A Azor, F Gonzalez-Lodeiro, A Perez-Estaun


1600h EIL10207L From the east European to the Siberian craton: Controversies in the crustal and upper mantle models: I Artemieva

1615h EIL10208L Geological interpretation of the Siberian platform deep structure from transects Batolit and Altai – Severnaya Zemlya: A Yefimov, A Migursky, D Rudnikskaia, V Staroseltsev, V Valchak, N Goryunov, A Yevgrafov

1630h EIL10209L Baikal explosion seismic transects: H Thybo, C Nielsen, V Suvorov

1645h EIL10210L From continental collision to the Earth’s deep water cycle: A preliminary synthesis of recent results from Project Hi-CLIMB: W Chen

1700h EIL10211L Sediment thickness in the Indo-Gangetic Plains inferred from Receiver function analysis: S Davuluri, R Chadha

1715h EIL10212L Prospectus: A Trans-EurAsian Megtransect (TEAM): L Brown

EIL10213P Seismic image of the eastern edge of the Bay of Biscay: MARCONI deep seismic reflection profiles: G Gallastegui, G Fernandez-Viejo, J Pulgar, J Gallart, T MARCONI

EIL10214P Deep seismic reflection transects within the iberian peninsula: A geophysical data base: B Gaite, I Palomeras, R Carbonell

EIL10215P An upper mantle reflector beneath SW Iberia. Location and seismic constraints: P Ayarza, I Palomeras, F Simancas, R Carbonell, D Martinez-Poyatos, A Azor, A Perez-Estaun, F Gonzalez-Lodeiro

EIL10216P Interpretation of wide-angle reflection and refraction recordings of Vibroseis signals and 3-D gravity modelling along FIRE4 profile, northern Finland: H Silvennoinen, E Kozlovskaya, J Yliami, T Tiira, W FIRE

EIL10217P Seismic image of the Fennoscandian Shield along the Baltic Sea – White Sea transect: P Heikkinen, I Kukkonen, A Suleimanov, N Zamoshnyaya

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Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium's oral presentations.
Thursday 1400h

**EUR-12 Cenozoic volcanism in Europé**
- 1400h EUR12201L Understanding the source characteristics of European within-plate magmas: M Wilson
- 1430h EUR12202L To be or not to be. Plume-busters vs. Plume-lovers in Europe: M Lustrino
- 1500h EUR12203L Control of Cenozoic intra-plate volcanic phenomena by healed boundaries of ancient micro-continent distinguished by different orientations of seismic anisotropy of mantle lithosphere: V Babuska, J Plomerova
- 1600h EUR12204L Origin of the Neoene to Quaternary alkaline basalt magmatism in the Pannonian Basin, eastern-central Europe: H Downes, S Harangi, T Sági, L Lenkey, T Ntaflos
- 1615h EUR12205L Variation of magma generation and mantle sources during continental rifting observed in Cenozoic lavas from the Eger Rift, Central Europe: K Haase, A Renno
- 1630h EUR12206L Intraplate volcanism in Western Bohemian Massif – Isotopic characteristics: A Ladenberger, D Peate, C Tomek, M Michalik
- 1645h EUR12207L LAB controlled generation of mafic igneous rocks in the Central European Cenozoic Igneous Province (CECIP): M Abratis, L Vierieck-Goette
- 1700h EUR12208L CO2 fluid inclusions in mantle xenoliths from the Lower Silesia, SW Poland – investigations of fossil pressures in the upper mantle and decomposition history of volcanic events: A Ladenberger, P Lazor, M Michalik
- 1715h EUR12209P Late cenozoic volcanism of cacausus: Geochronology and petrogenesis of parental magmas: V Lebedev
- 1730h EUR12210P High-Ti basaltic rocks in the uplifted shoulder of the Öre (Eger) Rift, western Bohemia/Saxony: J Novák, J Ullrich, L Ackerman, E Jelinek, M Chadima, J Mizera, Z Randa
- 1745h EUR12211P Trace element, Sr and Nd isotopic constraints on origin the Late Cretaceous alkaline anorogenic magmatism of the West Iberian Margin: R Miranda, J Mata, P Terrinha, M Azevêdo, V Valadares

**Thursday 1400h**

**GEP-10 Global controls on sequence stratigraphy**
- 1400h GEP10201L Paleozoic eustasy and the nature, amplitude and causes of sea-level changes: B Haq
- 1430h GEP10202L Can high resolution plate tectonics models be used to assess sequence stratigraphy?: G Stampfli, C Hochard
- 1500h GEP10203L Pennsylvanian cyclothem as correlatable short-term glacial-eustatic stratigraphic sequences: P Heckel
- 1515h GEP10204L Registration of the first global Lower APTian transgression (Orbitolina marl level) in the paleotropics: role of tectonics, climate and eustasy: A Arnaud-Vanneau, J Bernaux, M Raddad, H Arnaud
- 1600h GEP10205L Driving mechanisms for globally correlatable Phanerozoic eustatic sequences: M Simmons, P Sharland, D Kemp
- 1630h GEP10206L Tectonically-generated sequence boundaries of global extent: A Embry
- 1700h GEP10207L A New Jersey eustatic estimate? update for 2008: K Miller, M Kominz, J Browning, P Sugarman

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**Thursday 1400h**

**GHZ-01 Geo-risk in the 21st century**
- 1400h GHZ01201L Helping society improve disaster resilience: A grand challenge for the geosciences: D Applegate
- 1430h GHZ01202L Global increase in earthquake risk in the twenty-first century: J Clague
- 1500h GHZ01203L Landslide induced tsunamis: S Pedersen, T Dahl-Jensen, L Larsen
- 1510h GHZ01204L Evidences of a swinging migration of Mount Cameroon volcanic eruptions over the last two centuries: A Zognin
- 1600h GHZ01205L Powerful earthquakes and the distances from their epicentres to the ocean floor’s isochrons: A Parie, N Parubets
- 1615h GHZ01206L Geohazards assessment and mitigation – a geotechnical perspective: S Lacasse, F Nadim
- 1630h GHZ01207L On being a spin doctor: Can a “healthy choices” pitch for preparedness increase society’s ability to cope with disaster: M Gowan, R Kirk, D Johnston, K Ronan
- 1645h GHZ01208L Hazard assessment of slow slope movements: M Ranalli, G Gottardi, Z Medina-Cetina, F Nadim
- 1700h GHZ01209L An inventory of landslides and associated mass wasting events in Nigeria for risk assessment and land use planning: T Davies, A Solomon

**GHZ01210P** Different scale migration manifestations of mud volcanic activity dynamics in processes of main earthquake preparation with magnitude 5.0 – 9.0: N Babazade, O Babazade, B Romanov

**GHZ01211P** Decisions of engineering geological tasks on base of the mathematical morphology of landscape: A Viktorov
Thursday 1400h
IES-03 Geosites and landscape – conservation and management strategies
1400h IES03201L The realities of the conservation of heritage sites - damage, too much or too little protection? W A P Wimbleton
1430h IES03202L Different approaches for the study of the geodiversity: L Carcavilla, J López Martínez, J Durán
1445h IES03203L Geoconservation and its place within nature conservation: L Erikstad
1500h IES03204L Contemporary state and perspectives of landscape management and tourism in Valday National Park: M Trapeznikova, O Trapeznikova
1515h IES03205L Inventorying geological heritage in vast territories: First proposal for panaré state, brazil: F Lima, J Brilha, E Salamuni
1600h IES03206L The geo(morpho)diversity of the Dolomites (Italy): A key of assessment and management: M Panizza
1615h IES03207L Geosites assessment and management in protected areas of Greece. The case of the western Macedonia region: N Zouros, I Valiakos
1630h IES03208L The Spanish global geosites project and its influence on recent legislation for the conservation of natural heritage: L Carcavilla, Á García-Cortés, E Díaz-Martínez
1645h IES03209L Informational-retrieval system geological monuments of Russian nature: S Semiletkin, A Karpuzov
1700h IES03210L Geoheritage conservation in coastal and submerged landscapes: Mapping methods, GIS approach and management perspectives from the Bergeggi area (Italy): A Rovere, M Firpo, L Carobene
IES03211P Coastal and marine geomorphological map of island of San Pietro (SW Sardinia): F Di Gregorio, P Orrú, G Piras, G Puliga
IES03212P Ordovician and Silurian geological heritage in protected natural areas of Iberia: I Rabano, J Gutierrez-Marco, A Sa, M San Jose, A Pieren Pidal, G Sarmiento, J Picarza, J Duran Valsero, E Baesa, S Lorenzo
IES03213P Revision of the inventory of geosites of national significance in Switzerland: E Reynard
IES03214P The unique geological sights of Rivenschina: V Prokopets, V Stryzhalko, V Skovorodnev

Thursday 1400h
MPC-05 Evolution of the crust and oceans through Re-Os geochemistry: A decade of discovery
1400h MPC05201L India’s journey using Re-Os to date reactivation of ancient sutures: H Stein, G Yang, J Hannah, A Zimmerman, M Pandit, P Raut, C Gaina, T Torsvik
1430h MPC05202L Re-Os age of molybdenite from the Karbonsosze massive (SW Poland): S Mikulski, H Stein
1445h MPC05203L Timing of granite emplacement utilizing molybdenite 187Re-187Os geochronology (Cruachan Granite, Etive Complex, Scotland), and further insights into Re-Os decoupling: S Porter, D Selby
1500h MPC05204L Re-Os dating of pyrite generations and late hydrocarbons associated with gold deposits – post-Sveconorwegian construction of Norway’s Edsvoll Au deposit: H Stein, B Bingen, G Yang, P Hlën
1515h MPC05205L Os behaviour in groundwater and its effect on the Os residence time of the ocean: M Paul, L Reisberg, N Vigier, Y Zheng, L Charlet
1600h MPC05206L Extending Re-Os shale geochronology to lacustrine depositional systems: A case study from the major hydrocarbon source rocks of the Brazilian Mesozoic marginal basins: R Creaser, P Szatmari, E Milani
1630h MPC05207L Further evaluation of the rhenium-ostinum (Re-Os) petroleum geochronometer: Insights from the Faroe-Shetlands petroleum system, west of Shetland, North Sea, UK: D Selby, M Osborne
1645h MPC05208L Re-Os elemental and isotopic systematics of extractable organic matter and subfractions from a Cretaceous organic-rich shale: S Turgeon, C Boreham, R Creaser
1700h MPC05209L Re-Os geochronology of a 2.05 Ga fossil oil field near Shunga, Karelia, NW Russia: J Hannah, H Stein, G Yang, A Zimmerman, V Melezhik, M Filippov, S Turgeon, R Creaser
1715h MPC05210L Re-Os geochronology and end-ordovician os isotope composition of the ordovician/ silurian global stratotype section and point, doib’s linn, Scotland: A Finlay, D Selby, T Challands

Thursday 1400h
MPI-02 Integrated perspectives on the accretion of oceanic crust
1400h MPI02201L Accretion of the oceanic lithosphere in an ultra-slow spreading oceanic basin: inference from the Alpine-Appennine ophiolites: G Piccardo
1415h MPI02202L Accretion of ancient oceanic crust as in ophiolites: Y Dilek, H Furnes
1430h MPI02203L Ophiolites of the yarlung zangbo suture zone southern Tibet: R Hébert, G Lesage, C Guilmette, É Bédard, C Wang, J Dostal, T Ullrich
1445h MPI02204L Integrated perspectives on ophiolites of Pakistan: Z Ahmed
1500h MPI02205L Metamorphosed shallow mantle wedge witnessed from the Paleozoic Ust-Belaya ophiolite in northern Koryak Mts., Chukotka, NE Russia: A preliminary report: A Ishiwatari, S Sokolov, Y Hayasaka, G Ledneva, B Bazylev, S Palandzhyan, S Machi, A Moiseev
1515h MPI02206L Cenozoic and ancient accessory zircon in gabbroids of the 3rd layer in axial part of the Mid-Atlantic Ridge, 60N: U-Pb SIMS SHRIMP data: N Bortnikov, T Zinger, E Sharkov, E Lepekhsina, A Antonov, S Sergeev

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1530h **MPI02207L** Evolution of Mesozoic ophiolitic and mélangé units in the Izmir-Ankara-Erzincan suture zone (Turkey) within a Neo-Tethyan subduction-accretion system: E Sarifakioglu

**MPI02208P** Geochemical features of magmatic evolution at Spitsbergen island and the Knipovich ridge (Polar Atlantic): N Sushchevsksaya, B Belyatsky

**MPI02209P** Geochemistry of pyroxenites in the Kop peridotites, NE Turkey: H Kolayli

**MPI02210P** Petrology and geothermobarometry of mafic and ultramafic igneous rocks in ophiolitic complex of eastern Birjand: G Fotoohi Rad, K Shirkhani

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**Thursday 1400h**

**OSP-07 Oceanic hypoxia: Present and past**

1400h **OSP07201L** Does benthic foraminifera remember ancient hypoxic environments?: Exemplified from Chilostomella group: H Kitazato

1415h **OSP07202L** Why some foraminifera love frequent anoxia disturbance: The success of lifestyle-switchers in the northwestern Adriatic Sea: I Duijnste, S Ernst, I De Nooijer, B Van der Zwan

1430h **OSP07203L** Anthropogenic eutrophication causing seasonal hypoxia on the oligotrophic Israeli shelf: O Hyams-Kaphzan, A Almogi-Labin, B Herut, C Benjamini

1445h **OSP07204L** Survival strategy of benthic foraminifera in dysoxic environments: Distribution, cytological and genetic characteristics of Virgulinella fragilis: M Tsuchiya, T Toyofuku, P Heinz, J Collen, V Brüchert, C Hemleben, V Hemleben, H Yamamoto, H Kitazato

1500h **OSP07205L** Pore characteristics of deep-sea benthic foraminifera and linkage to oxygen levels: B Corliess, A Rathburn

1515h **OSP07206L** Relations between oceanic anoxic episodes and carbonate platform drowning events during the Cretaceous: K Föllmi

1600h **OSP07207L** Modeling of influence of oxygenated inflows on biogeochemical structure of meromictic fjords: O Podymov, E Yakuhev, J Skei

1615h **OSP07208L** Climatic forcing of eastern Mediterranean deep-water ventilation during the past 20,000 years: G Schmiedl

1630h **OSP07209L** Seasonal hypoxia in the northern Gulf of Mexico: Present and past: B Sen Gupta, N Rabalais, R Turner, J Lasseigne

**OSP07210P** Benthic foraminiferal response to bottom-water oxygenation and productivity in the Japan sea during the late Quaternary: K Usami, T Ohi, S Hasegawa

**OSP07211P** Increased variability of bottom water oxygenation in the Adriatic sea during stable average conditions: Fixing the lack of short-term environmental variability in reconstructions of variable environments: I Duijnste, S Ernst, B Van der Zwan

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**Thursday 1400h**

**UNC-03 World wide database, data holders, data management**

1400h **UNC03201L** Using global data for establishing the outer limit, a plausible approach: M Burgos

1430h **UNC03202L** Gathering existing data for the next seabed rush: The UNEP shelf programme can help: M Sorensen

1500h **UNC03203L** Operational factors affecting an UNCLOS seismic survey on an ice-covered extended continental shelf: R Rowland, R Jackson, J Shimeld

1600h **UNC03204L** Digital infrastructure of the danish continental shelf project: M Pedersen, N Andersen

1630h **UNC03205L** The United Nations Convention of Law of the Sea... The latest global summary for all 155 Coastal States in the world today...: R Van de Poll

1700h **UNC03206L** Geomorphometric data infrastructure for the portuguese continental shelf extension project: A Campos, M Pinto de Abreu, t EMPC

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*Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.*
### Thursday 7 August – Late Afternoon

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The following symposia begin in this session. Some symposia continue on the next day. Next day presentations may be found in the next day section.

#### Thursday 1600h

**AAA-04 Arctic petroleum provinces (6): Petroleum geoscience of the Barents Sea**

1600h **AAA04201L** Assessment of undiscovered petroleum resources of the Barents Sea Shelf: **T Klett**, D Gautier, J Pitman

1630h **AAA04202L** Devonian-Carboniferous carbonate platform evolution, southern Novaya Zemlya, Russian Arctic – An onshore analog for the Pechora Sea: **G Larssen**, N Sobolev, L Stemmerik

1700h **AAA04203L** Geochemical driven exploration models- Norwegian barents sea: **S Ohm**, D Karlsen, T Austin

**AAA04204P** Biogenic carbonates evolution during Paleozoic in the northeastern European platform: **A Antoshkina**

**AAA04205P** Oil and gas rock potential of palaeozoic sediments in the South Horeyver depression and Kolva megaswell (Timan-Pechora oil and gas basin): **D Khipeli**, S Klimenko, L Anishenko

**AAA04206P** Upper Devonian reefs and Domanic facies of Timan-Pechora basin: **D Khipeli**

**AAA04207P** Palaeozoic and triassic source rocks in the Norwegian Barents Sea: **J van Koeverden**, D Karlsen, D Stoddart, J Clark

**AAA04208P** Sequence stratigraphic framework for the Norwegian Barents Sea with a focus on the Triassic succession: **E Glorsstad-Clark**, J Fælde, N Jystuen, K Leever

**AAA04209P** Indications for contribution of carboniferous coals as source for an oil on the Finnmark Platform, Southern Norwegian Barents Sea: **J van Koeverden**, D Karlsen, J Lie

**AAA04210P** Middle Eocene sandy system of the Sorvestnaget Basin, south-west Barents Sea: **P Safronova**, K Andressen

**AAA04211P** Oil-and-gas potential of triassic and cretaceous deposits of the southern pericline of admiraltyesky swell of the Barents Sea Shelf: **S Pavlov**

**AAA04212P** Significance of the new BAS-06 aeromagnetic survey for a better understanding of salt tectonics and basin structure in the Barents Sea: **L Gernigon**, L Marello, C Barrere, J Skilbrei, D Roberts

**AAA04213P** Geodynamic evolution of arctic continental margins during epochs of young ocean formation: **E Shipilov**, G Bondarenko

**AAA04214P** Study of local structures of the north-east the European part of Russia using GIS: **M Vakhnin**, D Mashin, O Rasmanova

**AAA04215P** The Lower Devonian production deposits of the north part of the Khoreyver depression: **G Sachuk**

**AAA04216P** Seismic stratigraphy of Paleozoic sedimentary cover of the North of Timan-Pechora Basin: **V Chuprov**

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**Thursday 1600h**

**EID-03 Deep Earth seismic tomography: Observations, models and interpretations**

1600h **EID03201L** Large igneous provinces and large low shear velocity provinces – A new reconstruction method: **T Torsvik**, B Steinberger, J Cocks, K Burke

1615h **EID03202L** Reflections off the underside of a subducting slab in the mid and lower mantle: **C Thomas**, T Kito, A Rietbrock, E Garnero, S Nipress, A Heath

1630h **EID03203L** Large-scale structure of the earth's mantle: Combining views from free and forced oscillations: **M Ishii**, K Latychev, J Mitrovica, N Chan, J Davis

1645h **EID03204L** An upper mantle S-wave velocity model for northern Europe from love and Rayleigh group velocities: **C Wiedle**, V Maupin

1700h **EID03205L** Large-scale shear velocity structure of the upper mantle beneath Europe and surrounding regions: **C Legendre**, S Lebedev, T Meier, W Friederich

1715h **EID03206L** Towards arbitrary-resolution diffracted-wave tomography: Methodology, measurements, models: **T Nissen-Meyer**, A Fournier, F Dahlén, K Sigloch

**EID03207P** High-resolution lithospheric structure of the north China craton inferred from seismic tomography: **P Xu**, D Zhao

**EID03208P** Prospecting for fossil slabs in the lower mantle below the Tasman Sea using plate reconstructions and mantle tomography: **W Schellart**, B Kennett, W Spakman, M Amaru

**EID03209P** Relocated seismicity and shear wave velocity structure beneath the Northern China and Northeastern China from SMU and IGP/CEA Broadband Seismic Network: **Z Yang**, Y Chen, B Stump, R Zhou

**EID03210P** Lower mantle slabs constraining paleogeographic reconstructions: **D van der Meer**, D van Hinsbergen, W Spakman

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**Thursday 1600h**

**GTN-05 Future trends in 3D and 4D modeling in geosciences – Part 1**

1600h **GTN05201L** PaleoGIS: A 4D virtual geological observatory: **M Ross**, C Van Oosterhout

1615h **GTN05202L** South Atlantic margins in 4D – using advanced plate tectonic software to model initial extension in the South Atlantic rift system: **C Heine**, J Skogseid, A Kennedy-Thurmond, T Stensby, C Tarrou, A Bruaset

1630h **GTN05203L** GPlates: Open source software and data base for interactive plate reconstructions: **D Muller**, T Torsvik, M Gurnis

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1645h GTN05204L Slabs in the mantle – dynamic topography and mantle rheology in the south-western Pacific: S Clark, M Gurnis, R Müller


1715h GTN05206L Multi-resolution visualization of time-dependent horizons on the globe: T Stensby, C Tarrou, A Bruaset, J Skogseid, A Thurmond, C Heine

Thursday 1600h

MPI-03 Granite classification – a never-ending problem

1600h MPI03201L Aluminum saturation, alkalinity, and magma series: S Ludington, V Mossotti

1615h MPI03202L Detailed elaboration of alkali sum – silica (TAS) diagram for chemical classification of volcanic rocks: L Sharpenok, A Kostin, E Kukharenko

1630h MPI03203L Geochemical and petrological discrimination between oxidized A-type granites and reduced A-type granites and calc-alkaline granites: R Dall’Agnol, D Oliveira

1645h MPI03204L Paleoproterozoic oxidized A-type granites in northern Finland and vicinity: T Rämö, J Halla, E Heilimo, H Huhma, A Kapyaho, M Kurlha, K Front

1700h MPI03205L A-type granites of the Yenisey Ridge (western margin of the Siberian craton): geochemistry, geochronology, and tectonic setting: A Vernikovskaya, V Vernikovsky

1715h MPI03206L About the correct usage of alkali and calc-alkaline in igneous suites: B Bonin

MPI03207P Mesozoic-Tertiary granitic intrusions in the Sanandaj-Sirjan and Urumieh-Dokhtar belts of Zagros Orogen, Iran: A Sepahi

MPI03208P Geochemistry and petrology of quartz-monzonitic pluton of Tuye darvar, in eastern Alborz structural Zone, northeast of Iran: K Alireza, F Zohreh, G Habibollah

MPI03209P Geochemical investigation on granitoid pluton of Chah Salar, in central Iran structural Zone, Nishabour, north-east of Iran: F Zohreh, S Mahmod, K Alireza, G Habibollah

MPI03210P Petrology and petrogenesis of the Bazman I-type granitoid (SE of Iran): S Padashi, M Emami

MPI03211P Thermal models for post-collisional A-type granites formation (western margin of the Siberian craton): A Vernikovskaya, V Vernikovsky, N Matushkin, O Poliansky

MPI03212P Again about Phanerozoic granites: Their geologic and composition diversity through the old Siberia to Prepacific transition zone, North-East Asia: M Gelman

MPI03213P Classification of archean granitoids in the western Karelian craton: E Heilimo, J Halla

MPI03214P Orosirian, A- and I-type acid volcanism in the Guyana Shield, northern Amazonian Craton: L Fraga, A Dreher, J Lafon

Thursday 1600h

MRD-18 Iron deposits

1600h MRD18201L Banded iron formations and Paleoproterozoic high-grade iron ores: Key rocks in earth evolution and a major mineral resource: M Barley

1630h MRD18202L Continental rifting, alkaline magmatism and the origin of high-grade iron ore deposits: J Gutzmer, N Beukes, J Huizenga, H Rajesh

1645h MRD18203L Brief discussion concerning the goethite pseudomorphic of amphibole genesis: J Rocha, L Bonifio, P Brandão

MRD18205P Principal metallogenic features of Fe-Ni ore deposits in Serbia: R Popovic

MRD18206P Titanomagnetite ore deposits of Russia: Prospects for development and complex use: L Bykhovsky, L Tigurov

MRD18207P Apatite-iron oxide ore at Sorkheh-Dizaj deposit, northwest Iran: G Nabatian, M Ghaderi, N Rashidnejad-Omran, F Daliran

MRD18208P Timing of skarn Fe mineralization in southeastern Hubei, MLYB: Evidence from phlogopite 40Ar/39Ar dating: X Guiping, M Jingwen

MRD18209P Mineralogy and geochemistry of the Galali iron deposit, western Iran: I Lee, B Mehrdad

MRD18210P Mesozoic iron ore basin of the Pri-Yenisei part of the West Siberian plate: G Cherkasov, M Parovinchak, M Viktorov, I Vorobyova, K Systemov

MRD18211P Fluid inclusion characteristics of Hamehksay 1 iron deposit, western Iran: B Mehrdad, I Lee

MRD18212P Chemical and Sr isotopic compositions of apatite from iron deposits in the Ningwu volcanic basin, lower Yangtze River district, China: F Ma, S Jiang, Y Jiang, R Wang, H Ling, P Ni

MRD18213P Significance of the powder-like magnetite-hematite in the La Perla iron ore deposit, Mexico: R Corona-Esquivel, F Henriquez, J Trillla, E Martinez-Hernandez

MRD18214P Composition of mineralized fluids associated with Fe-precipitate-precipitation in two mines of the east Quadrilátero Ferrífero, MG, Brazil: F Rios, C Rosière, A Pereira, A Chaves, M Tubrett

MRD18215P Basic characteristics of fluid geologic process of interlayer oxidation zone sandstone-type Uranium deposit: B Wu, L Hu, Wang

Thursday 1600h

UHP-03 Ultra-high pressure metamorphism: Minerals, microstructures and nanoscale observations – Part 1

1600h UHP03201L From nanometric inclusions of osbornite (TiN) in terrestrial coesite to mantle convection and storage of nitrogen in Earth’s interior: L Dobrzynieckaya, R Wirth, J Yang, H Green II, P Weber, I Hutcheon

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The 33rd International Geological Congress, Oslo 2008
1630h UHP03202L Ultra-high pressure minerals from Polar Ural and Tibet: Implication for deep genesis of podiform chromitite: J Yang, W Bai, Q Fang, S Chen, Z Zhang, M A. B., N Bryanchamnina

1645h UHP03203L Garnet-pyroxene exsolution microstructure in orogenic peridotite predates ultra-high pressure metamorphism in Su-Lu: D Spengler, M Obata, T Hirajima

1700h UHP03204L Combining experiments and microstructural analysis to decipher ultra-high-pressure rocks: H Green

1715h UHP03205L Petrography of UHP-metamorphic rocks: New avenues for petrological applications using cathodoluminescence (CL) microscopy: H Schertl, R Neuser

UHP03216P Hematite and magnetite precipitates in olivine of Sulu peridotite: A result of dehydrogenation-oxidation reaction of mantle olivine?: S Hwang, T Yui, H Chu, P Shen, Y Iizuka, H Yang, J Yang, Z Xu

UHP03217P Amorphization in natural omphacite: W Su, X Zhang, C Wen, K Ye, J Liu

UHP03218P Electrical conductivity of quartz at high pressure: D Wang, L Yi

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.
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The following symposia contain only poster presentations or are posters belonging to Wednesday, day 1 symposia.

### Thursday 0800h–1900h

**AAA-01 Paleogeographic evolution of the Arctic region during the Phanerozoic – Part 3**

**AAA01233P** Circum-Arctic mapping project: New magnetic and gravity anomaly maps of the Arctic: C Gaina, S Werner, G CAMP-GM

**AAA01234P** Organic matter of the deep bottom sediments of the Arctic Basin: I Litvinenko, V Petrova, G Batova, A Kursheva

**AAA01235P** Bjornoya – a window into the Barents shelf: A Mark, D Worsley, H Nakrem

**AAA01236P** A new geological map of the Arctic: C Harrison, M St-Onge, Š Strelnikov, B Lopatin, F Wilson, S Bergman, A Solli, H Jepsen

**AAA01237P** Middle and Late Triassic Palaeogeography of the western barents sea and Svalbard based on new data from the northern barents sea: B Lundschen, T Bøh, F Riis, A Mark, M Mork

**AAA01238P** The opening of the Amerasia basin: J Brozena, L Lawver, V Childers

**AAA01239P** Sedimentation and reef-building features in late carboniferous-early Permian sedimentary basins of the barents sea region: V Vasilev

**AAA01240P** Main landmarks of formation and transformation of Neogaea continental crust in the European arctic: G Kovalova, E Korago, T Govertsovskaya

**AAA01241P** The IPY project ‘The dynamic continental margin between the Mid-Atlantic-Ridge system (Mohns Ridge, Knipovich Ridge) and the Bear Island Region’: J Schweitzer, A Guterch, F Krüger, M Schmidt-Aursch, R Mjelde, M Grad, J Faleide

**AAA01242P** Sedimentary cover of the Lomonosov Ridge near the North Pole based on seismic data: N Lebedeva-Ivanova, T Arthun, Y Kristoffersen, Healy-2005 seismic team

**Thursday 0800h–1900h**

**AMS-03 South American metallogeny**
- **AMS03206P** Geochemical evidence of the Paraná Continental Igneous Province potentiality for PGE and precious metals according to the Skargaards metallogenic model: E Arioli, E Santos, O Licht, E Vasconcellos, A Schrank

**AMS03207P** Hydrothermal alteration and its effects on magnetic properties of rocks: Case study for the Los Pelambres porphyry copper deposit, Chile: J Tapia, B Townley, C Arriagada, N Astudillo, L Cordova, M Belmar

### Thursday 0800h–1900h

**AMS-04 South American alkaline igneous complexes**
- **AMS04201P** A way to explain A-Type magmatism in the Central Andes: A comparison with the petrology of the Oslo rift in Norway: D Rubiolo

**AMS04202P** Crystal chemistry of phlogopites of Catalán I and Catalán II: V Guarino

**AMS04203P** Petrology and geochemistry of the Banhadóo alkaline-carbonatitic complexes: E Ruberti, G Enrich, P Comin-Chiaramonti, C Gomes

**AMS04204P** A review of carbonatitic magmatism in the Paraña-Angola-Endegeka system. General geological and petrochemical outlines: P Comin-Chiaramonti, A Cundari, C Gomes

**AMS04205P** O-C fractionation in the carbonatites from the Paraña-Angola-Endegeka system: P Comin-Chiaramonti, C Gomes, E Ruberti, A Cundari

**AMS04206P** Radiogenic isotopes in the carbonatitic magmatism from the Paraña-Angola-Endegeka system: P Comin-Chiaramonti, C Gomes, E Ruberti, A Cundari

**AMS04207P** Alkaline magmatism in Brazilian platform: General outlines: C Gomes, E Ruberti, P Comin-Chiaramonti

**AMS04208P** Gravity survey of an alkaline complex: Methodology and interpretation: V Biondo Ribeiro, M Mantovani

**AMS04209P** Paleomagnetism of the Alto Paraguay Alkaline Province: M Ernesto, P Comin-Chiaramonti, C Gomes

**AMS04210P** Peralkaline syenites: polygenetic rocks?: H Ulbrich, M Ulbrich, S Vlach, D Demaiffe

**AMS04211P** Petrogenesis of the alkaline-carbonatitic complexes of Catalán I and Catalán II: V Guarino, P Brotzu, C Gomes, M Lurinzo, I Melluso, I Morbidelli, E Ruberti, C Tassinari, M Brilli

**AMS04212P** Zircon and baddeleyite U-Pb dating (TIMS) of mesozoic alkaline rocks from the São Sebastião Island, southeastern Brazil: E Sato, S Vlach, M Basei

### Thursday 0800h–1900h

**ASI-01 Geodynamic evolution of Asia**
- **ASI01228P** Structure analysis to present structure model in the Sahlabad Region, south east of Birjand: M Moussavi

**ASI01229P** Archangelsky-Andrusov Lineament as south-eastern Tornquest-Teisseire zone prolongation: V Viginsky

**ASI01230P** Geodynamics of Ara-Caspian region: Modern and Mesozoic-Cenozoic structures: I Fishman

**ASI01231P** Condition of the scrutiny level of the Cenozoic cover in Surkhan-Darya depression: D Atabaev

**ASI01232P** Tectonics and features of the geological structure sub- and above salted Mesozoic-Cenozoic complexes of rocks in the Surkhan-Darya hollow: I Yanbukhtin
**ASIO1233P** New data on Alpine magmatism in Western Baluchistan, Middle East: A Romanko, A Romanko

**ASIO1234P** Geochemistry of A-type granitoids in the Sar-Cheshmeh area, the Urmieh-Dokhtar magmatic assemblage: New constraints on the Arabian-Central Iranian continental collision: M Arvin, S Dargahi, P Yuanning, A Babaei

**ASIO1235P** Alpine geodynamics of the Eastern Ural: B Georgievsky, A Telev

**ASIO1236P** Evolution of lithospheric keel of Siberian craton due to interaction with Devononian-Carboniferous superplume: I Ashchepkov, N Pokhilenko, N Vladykin, A Logvinina, S Kostrovitsky, V Afanasiev, L Pokhilenko, A Rotman, E Vishnyakova, O Khmelnikova, V Paleskyy


**ASIO1238P** Ancient Subduction Zone in Sakhalin (The Sea of Okhotsk): A Rodnikov

**ASIO1239P** Phanerozoic geodynamic evolution of Southeast Asia: J Golonka, M Krolicki, N Giang, W Zuchiewicz

**ASIO1240P** Tectonic Inversion in south of Birjand: M Morcza

**ASIO1241P** Greenstone belts in buried basement of the Siberian platform: V Isakov, K Staroselstev, V Khutorianski

**ASIO1242P** Mesozoic magmatism of zone continent-ocean in central Siberia: A Romanov, V Yevipanov

**ASIO1243P** Geodynamic evolution of Asian continent: J Ren, Q Peng, P Deng, J Wang, K Chen

**ASIO1244P** New U-Pb zircon age constraints on the age of the interglacial Fulu Formation in Zhaoxing, Liping, Guizhou, South China: C Yin, P Liu, F Tang, L Gao, Z Yang, B Song

**ASIO1245P** Uplift and evolution of Helan mountain: H Zhao, C Liu, F Wang

**ASIO1246P** Contribution to continental collision around Korea: From Cheongcheon Riv. to Pyeongchang as a new indentation model: C Ryoo

**ASIO1247P** Paleogeodynamic of northeast Asia in late Cretaceous: V Chekhovich

**ASIO1248P** SHRIMP zircon dating of the gabbro from the Kukejileiga ophiolite in the West Kunlun Mts. and its geologic significance: J Wang, Q Zhai, Y Wang, X Xiao, J Yao, P Bao

**ASIO1249P** A late jurassic Large-scale linear sedimentary basin group and its tectonic setting in the Yanshan area, northern China: z He, B Niu, X Zhang

**ASIO1250P** Composition, structure and tectonic evolution of qinling orogen: B Niu, Z He, J Xiao, L Xiao

**ASIO1251P** Detrital provenance data from the Late Paleozoic-Mesozoic Mongol-Okhotsk Belt (NE Mongolia): Geodynamic implications: N Martin-Gombojav

**ASIO1252P** Some geochronological feature of the early Precambrian in the North China Craton: L Ren, C Yang

**ASIO1253P** A transformation of tectonic regime in eastern China in the Mesozoic: B Niu, F Liu, P Deng

**ASIO1254P** Unravelling Archean crustal evolution: Provenance and tectonic setting of metageneous and sedimentary rocks of the Singhbhum craton (northeast India): J Tait, U Zimmermann, T Miyazaki, J Mukhopadhyay

**ASIO1255P** The hidden boundary in the middle of Eurasia: I Loganson

**ASIO1256P** Relative contributions of crust and mantle to the generation of the Tianshan carboniferous rift-related basic lavas, northwestern China: X Xu, L Xia, Z Xia, X Li, Z Ma

**ASIO1257P** Volcanic cycles and petrogenesis of the bikou group: X Xu, L Xia, Z Xia

**ASIO1258P** A new viewpoint on the genesis of the granites and geodynamic setting in east China: Y Tan, R Qi, S Zhou, T Li, J Deng, Q Xiao

**ASIO1259P** A new tectonic division schedule for the eastern Guizhou, southwestern China: C Dai, M Wang

**ASIO1260P** On distinguishing of the Bureja-Jiamusy superterrane (Russia): I Derbeko

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**Thursday 0800h–1900h**

**CCC-01 Climate system: Quo vadis?**

- **CCC01207P** Vernal point and climate change: T Chávez Campos, I Chávez Sumarriva, L Sumarriva

- **CCC01208P** Cenozoic paleoclimate: From the greenhouse to the icehouse world (and back?): P Barrett

**CCC01209P** The economic and environmental credentials of biofuels and fossil fuels: M Radetzki

**CCC01210P** Cenozoic Paleoclimate: From the Greenhouse to the icehouse world: P Barrett, T Crowley, K Miller

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**Thursday 0800h–1900h**

**CGC-04 Neooproterozoic ice ages: Quo vadis?**

- **CGC04216P** Facies and provenance analysis of the Neooproterozoic Bebedouro Formation, São Francisco craton, Brazil: Implications on Neooproterozoic paleogeography and glacial models: F Torres Figueiredo, R Paes de Almeida, L Janikian, C Riccomini

- **CGC04217P** U-Pb SHRIMP ages of detrital zircons from glaciogenic diamictites of the Puga Formation, Southern Paraguay Belt, Brazil: M Babinski, P Boggiani, R Trindade, M Fanning

- **CGC04218P** Post-Marinoan surface processes in the La Plata craton, west Gondwana: A Mizusaki, A Borba, A Maraschin, D Silva

- **CGC04219P** Constraints on the glacial events from the Neooproterozoic west congolian group: G Straathof, J Tait, E Cibrambula, V Kanda Nkula, U Zimmermann

- **CGC04220P** C and O isotope profiles from the terminal Precambrian Marwar supergroup, Rajasthan, India: A Maheshwari, A Sial, S Mathur

- **CGC04221P** Geochemistry of glaciogenic neooproterozoic banded iron-formations from kermn district: M Kianian, A Khakzad
CGC04222P Precambrian glaciation is actually hydrothermal subsurface solution and replacement: L Bridges

Thursday 0800h–1900h
EGC-01 General contributions to environmental geochemistry
EGC01234P Trace element assessment in water and sediments of River Kassa, Jos Plateau, Nigeria: A Momoh
EGC01235P Potential metal pollution of soil in El Saff cultivated area, Giza: M Ellakshouty
EGC01236P Mineral matter and silica concentration in human lung – a preliminary study: M Jablonska, L Lewinska-Preis, J Janezcek, A Kita
EGC01237P Hydrochemical assessment of heavy metal contents in Armenia’s rivers: A Saghatelyan, M Nalbandyan
EGC01238P Recharge, sulfide weathering and redox control on arsenic contamination in groundwater: R Petrini, F Slejko, L Zini, G Franceschini, A Lutman
EGC01239P Constrains on the hydrochemistry of the future Meirama (A Coruña, Spain) open pit lake: J Delgado-Martín, R Juncosa-Rivera, J Delgado, A Vazquez-Gonzalez
EGC01240P Mining related As-Sb pollution in Macedonia: T Serafimovsky, D Alderton
EGC01241P Assessment of environmental dangers caused by mercury contamination during mining activity in the Selenge river catchments: B Ulziiburen, M Baatar
EGC01242P Ecological geochemistry of ore dumps: B Kolotov
EGC01243P Sedimentological and geochemical features of old phosphorites: M Komarov, Y Kiperman, A Il’in
EGC01244P Utilization of minerals and slag in phosphor removal from sewage: A mechanism study: H Xu, J Zhang, Y Deng
EGC01245P Study on PAHs contents and sources in surface soils of Huizhou city, south China: Based on multivariate statistics analysis: J Ma, Y Zhuo, H Wan
EGC01246P The zeolites synthesised in contaminated soil treated with coal fly ash. What is their role?: C Belviso, F Cavalcante, S Fiore
EGC01248P Pb and Zn isotopes as tracers of metal sources in geologic, biologic and anthropogenic samples: A Dolgopolova, R Seltmann, C Stanley, D Weiss, B Kober
EGC01249P Avalanche as ecological and geochemical phenomenon: I Spiridonov, O Vdovina, S Volkov
EGC01250P Heavy metal stabilization in contaminated soil using a novel solution: S Park, C Kim, H Song, K Chae, J Kim, D Song
EGC01251P Holocene and present day heavy metals in Central Tyyrhenian Sea sediments: L Conforto, L Manfra, L Corrado
EGC01252P Silting up of river Babeni reservoir in Valcea area, Romania – Environmental consequences: S Szobotka, V Boian, G Ungureanu, I Stanescu
EGC01253P Heavy metals enrichment factor as a tool for sediment quality assessment in Tatuoca river, SUAPE harbor, Ipojuca, Brazil: A Moraes, E Lima
EGC01254P Ecotoxic metals (Hg, Cd, Pb, Zn, Cu) in sediments of Mljet National park – Croatia: V Cuculic, N Cukrov, Z Kwokal, O Pecar
EGC01255P Geochemistry of sediments from the Strait of Sicily in relation to hydrodynamics of southern Mediterranean waters: G Tranichida, A Bellanca, M Angelone, R Neri, S Mazzola, B Patti, A Bonanno
EGC01256P Mercury in estuarine sediments of the Manguaba river: A background value proposition for relatively well preserved aquatic systems under tropical countries: M Lima, E Menor, E Lima, V Neumann
EGC01257P Secondary sulphate precipitates in the gravel pit of the Kumpuselkä esker: V Peuraniemi, T Eskola
EGC01258P Effect of fire on Hg pools in soils of forested ecosystem: T Navratil, M HojdoVA, J Rohovec, V Penizek, Z Varilova
EGC01259P Loess formation. Glacio-degassing hypothesis: V Yefifanov
EGC01260P Assessment of soil contamination due to heavy metals at Ranjet industrial area, Tamil Nadu, India: S Srivinavas Gowd, N Murthy, P Govil
EGC01261P The influence of anthropogenic salinization on the soil mineralogy: Y Simakova
EGC01262P The antigens pollutants in air and soils (Near-Tashkent industrial area, Uzbekistan): O Kodirov, R Yusupov, N Shukurov
EGC01263P Heavy-metal contamination of the paddy soils and rice (Oryza Sativa L.): A case study of Koèani Field (Macedonia): N Rogan
EGC01264P Heavy metal contamination in soils and tea plants in The Eastern Black Sea Coast, Turkey: G Yalali-Abanuz

Thursday 0800h–1900h
EGC-03 Urban geochemical mapping
EGC03211P Multivariate statistical analysis and GIS-based approach to map the spatial pattern of major and trace element in Kuala Terengganu Soils: S Poh, N Mohamed Shazili, N Mohd Tahir
EGC03212P Geochemical baseline mapping around the cities of Helsinki and Tampere: T Tarvainen, J Jarva
EGC03213P Geochemical studies on urban soils using two sample depths: J Jarva, T Tarvainen
EGC03214P Inorganic pollutants in the soil-plant system from urban environment: R Lacatusu, A Lacatusu, I Breaban, M Lungu
EGC03215P The scale of pollution in an urban area: the example of Oslo: C Reimann, A Arnoldussen, P Engimaier
EGC03216P Combination of geophysical and geochemical methods for mapping of heavy metals pollution in topsoil of parks and urban forests: T Magiera, S Zygmunt, R Marzena
EGC03217P The magnetic signature of atmospheric dust influx along a transect through Oslo: Terrestrial moss versus O-horizon soil samples: C Reimann, K Fabian, S McEnroe

EGC03218P The geochemical distribution of Fe, Co, Ni and Cr from the soils of the last city and surroundings: N BUZGAR, O IANCU, L APOSTOAIE, M LUNGU, M PINTILEI, D ASTEFANEI, I BULIGA, A RAUS

EGC03219P The effect of anthropogenic activity on the geochemical distribution of Zn, Cu, Mn, Pb, and Cd in the soils of last city: D Stumba, L Apostoae, O Iancu, N Buzgar, I Popa, C Secu, L Apostoae, M Railaun

EGC03220P Technology of estimating the system environment – health: O Menchinskaya, T Zangieva

EGC03221P The environmental geochemical atlas of Salerno (Italy): L Fedele, S Albanese, D Cicchella, G Grezzi, B De Vivo, A Lima

EGC03222P Levels and composition of PAHs in surface soil in major Norwegian cities: O Eggen, H Jensen, R Ottesen

EGC03223P Merradalen natural soil Pb anomaly: T Finne, C Reimann, M Osten, T Volden

EGC03224P Perspectives on airborne and soilborne contaminants and human health: the Earth scientist's perspective: H Mielke

Thursday 0800h–1900h
EID-02 Properties and dynamics of mantle and core
EID02211P A new approach to the equation of state of melts: S Karato
EID02212P Recent progress in the experimental studies on plastic deformation in minerals under deep Earth conditions: S Karato
EID02213P Recent development of experimental techniques for high-pressure mineral physics under simulated mantle conditions: H Mueller, F Schilling, C Lathe, M Wehber

Thursday 0800h–1900h
EIL-01 General contributions to the lithosphere
EIL01212P Upper lithospheric structure of the subduction zone offshore of southern Arauco area, Chile (~38° S): E Contreras-Reyes, E Fueh, I Grevemeyer, C Reichert
EIL01213P Anomalous seismic attenuation structure in subduction zone: Example from the Kii segment of the Philippine Sea subduction zone: A Petukhin, T Kaga wa
EIL01214P Upper mantle attenuation beneath northern Apennines (Italy) from teleseismic P wave spectra: F Lucente, M Di Bona, D Piccinini, V Levin, J Park
EIL01215P Mantle-lid P-wave velocities in Korea-Japan region and their implications for tectonic evolution: T Hong, T Kang
EIL01216P Event detection and relocation of the 2003 Lefkada Island, Greece, aftershock sequence, applying array-based waveform correlation techniques: M Piril, S Gibbons, J Schweitzer
EIL01217P Seismic activity observations with new seismic network in Slovenia: P Sincic
EIL01218P Structure of the cratonic lithosphere and lithosphere growth rate since the Archean: Constraints from thermal and seismic tomography data: I Artemieva
EIL01219P Where was the archean diamondiferous lithospheric keel below Siberia while separate terranes aggregated into the Craton barely in the early proterozoic?: O Rosen, M Bogina, A Manakov, N Gorev, A Rotman
EIL01220P Lithosphere structure of Europe according to three-dimensional gravity modelling: T Yegorova
EIL01221P Effective elastic thickness of the continental lithosphere in China from heat flow: Implications for the lithospheric rheology: S Liu
EIL01222P Geochemical and textural implications of gabbroic xenoliths in alkaline basalts from Jeju Island, South Korea: J Yu, K Yang, Y Eom, B Hwang, J Kim, C Szabo
EIL01223P Rare earth elements in geothermal waters from Yemen: M Mattash
EIL01224P AMS data on the Castelo Branco pluton, central Portugal: A preliminary insight: H Sant’ Ovaia, C Gomes, A Rocha
EIL01225P Migration elements in the electrical fields of the Earth (Lithosphere): I Goldberg
EIL01226P Global cyclic of magmatic processes in the crust and mantle during the evolution: D Glazachev
EIL01227P Temperature pattern identification in a subcrop: B Burganov, A Khristoforov, N Khristoforova
EIL01228P Thermal field analysis for oil and gas at great depths: N Khristoforova, A Khristoforov, M Bergmann
EIL01229P Formation of seismic centers and oil gas bearing on the three-dimensional model of Lesser Caucasus Earth crust: A Harutyunyan, H Petrosyan
EIL01230P Preliminary results for thermal structure of Eastern Marmara Region, Turkey: N Sayyn
EIL01231P Formation of oceanic crust geosstructures and relation between submarine landslides and tsunami: A Harutyunyan, E Abayzan
EIL01232P Thermo-mechanical modelling for the lithosphere processes: V Svalova
EIL01233P Electrical conductivity of the lithosphere under the Scandinavian Caledonides: T Korja, M Smirnov, L Pedersen
EIL01234P Cratonic keels and a two-layer mantle tested: Plate motion examples of mantle expulsion during craton-to-craton convergence and of its lateral induction during their separation – Mediterranean, Atlantic-Arctic and India: M Osmaston
EIL01235P Flower structure resulted of strike-slip motions along the Bocón fault during Neogene time, in the Mérida Central Andes, Venezuela: J Castrillo, F Bongiorno, L Gonzalez, O Odremen, F Mazuera, J Gutierrez, M Elberg
Thursday 0800h–1900h
EIL-08 Geoelectromagnetic studies of the Earth’s crust and mantle

EIL08211P New geophysical data about deep structure and fluid regime features of Bransfield Strait and Drake Passage Earth’s crust: M Yakymchuk, S Levashov, I Korchagin, V Solovyov, Y Kozlenko, V Bakhmutov

EIL08212P Electrical exploration in 3D studies of polarizing targets: V Moiseev, N Pauli, M Tokareva, G Trigubovich


EIL08214P Ionospheric magnetic sources and long term transfer function monitoring: P Palangio, G Santarato, C Di Lorenzo, L Santarelli, E Lampis, M Di Persio

EIL08215P Inferred lateral variation of magnetic and electric properties of the European crust and mantle from diurnal variation data: V Dobrica, C Demetrescu

EIL08216P Magnetotelluric investigation in a seismogenic source area: Evidences from the 1930 Irpinia earthquake area: A Siniscalchi, M Balasco, I Diaperia, D Di Bucci, U Fracassi, M Loddo, C Magri, G Romanos, D Schiavone, S Tripaldi

Thursday 0800h–1900h
GHZ-06 Landslide risks in fluvial systems

GHZ06212P Activation of landslide processes: Modeling and monitoring: V Svalova, G Postoev

GHZ06214P The role of engineering geology on risk management of open pit mine: Z Shoairi

GHZ06215P Geological and geotechnical properties of Kostere Landslide (Torul-Gumushane, NE Turkey): E Bayram, F Bulut

GHZ06216P Landslide processes in the Vistula River Valley: D Ilicewicz-Stefaniuk, M Stefaniuk

GHZ06217P Geohydrological hazards and its impact on human population: A case study of landslides in Tamilnadu (India) using Geographical Information System(GIS): S Samarajalingam

GHZ06218P The implementation of landslide hazard and risk mapping in the regional development programs of Romanian territory: D Dordea, I Casapu, V Sprineceanu, A Dobrescu, D Gabudianu

GHZ06219P Stability analysis for the Chengdu-Lhasa Highway 102 landslide and the effect of water-rock interaction on the formation and evolution of the landslide: W Shan, L Yang, G Ying

GHZ06220P The impact of processes occurring on the slopes as regards the engineering structures planing design and construction: L Rokic

GHZ06221P Road construction on labile and unstable terrains: V Vujanic, S Milenkovic

GHZ06222P Landslide susceptibility changes in Slovenia as a consequence of landslide triggering factor changes: M Komac, M Jemec

GHZ06223P Landslide susceptibility mapping using geological data and DEM from ASTER images and artificial neural networks (ANN): D Kawabata, J Bandibas

GHZ06224P Early warning system for rockfalls and landslides risk prevention: F Ponziani, A Boscherini, G Felicioni, B Mencaroni, M Ogna, A Severi, A Sorrentino, L Tesorini, B Tocaceli, R Cardinale, A Buccioni

GHZ06225P Construction of a real-time monitoring system for debris flow in Korea: B Chae, B Han, Y Cho, Y Song

GHZ06226P Probabilistic prediction and risk assessment of landslides on natural terrain: B Chae, Y Cho, Y Song, K Kim, C Lee

GHZ06227P An experimental study on infiltration characteristics of rainfall into weathered soil: B Roh, B Chae, H Kim

GHZ06228P An investigation on the behavior of paleo-landslides in recent most representative Iranian strong earthquakes: S Nasiri, H Pedram

GHZ06229P Hazard mapping of shallow landslides by a new cone penetration test measurement: Y Sasaki

GHZ06230P Landslide geohazards in the city of Puerto Montt, lake region, Chile: P Derch, J Muñoz, R Hermanns

GHZ06231P Numerical modeling in geomorphic cycle: Q Lin, B Shi, J Zhang

GHZ06232P Deterministic analysis of slope stability in the Serra do Mar (Paraná, southern Brazil): S Kozciak, A Fiori, L Disperati

GHZ06233P Development of geological risk map for road slope hazards: Y Yajima, Y Sasaki, T Kurabashi

Thursday 0800h–1900h
GHZ-08 Volcano flank instability: Causes, precursors and associated hazards

GHZ08208P Stabilitiy analysis of the Stromboli Volcano by 3D finite difference numerical modelling: A Merri, T Apuani, M Masetti

GHZ08209P Stress release after intrusion of dikes: The case of the 2001 eruption and its role in the dynamics of the volcano: S Gambino, A Bonforte, M Neri

Thursday 0800h–1900h
GSM-02 Geomorphology and landscape response to global change

GSM02212P Morphodynamic processes studies using ASTER and SPOT satellite images in GIS area: Case study of Yakhar valley in volcanic cone of Damavand: M Zareinejad, B Mojtaba

GSM02213P Desertification of Lut Depression, S.E of Iran: An example of invaded relief: A Motamed, M Ghorbani

GSM02214P Structurally controlled karst morphology in quartzite: A Avelar, A Coelho Netto, R Uagoda

GSM02215P The role of climate variability and human activities in the dune fields evolution in Naxos Island, Greece: P Nastos, N Evelpidou, A Vassilopoulos

GSM02216P Stream capture nearby Shigu of the Jinshajiang River: D Yang, Z Han, Y Xu, X Li, Q Xu
Thursday 0800h–1900h
GSM-03 Karst as a global phenomenon – a tribute to Derek Ford and Paul Williams

GSM03217P Microorganisms as speleogenetic agents: Passive and active processes: P Boston, M Spilde, D Northup, M Curry, L Melim, L Rosales-Lagarde

GSM03218P Secondary karst processes and the development of subterranean soil: M Spilde, P Boston, D Northup, A Kooser

Thursday 0800h–1900h
GTN General contributions to new methods and technologies

GTN01218P Confidence regions for particle shape diagrams: D Graham, R Gadsden

GTN01219P Weight determination of qualitative data using Analytical Hierarchy Process (AHP): M Rahimi, W Busch

GTN01220P Information-measuring system for research of underwater potentially dangerous objects of a shelf: M Khomlyansky, V Sobolev, G Ivanov, M Vladimirov

GTN01221P Digital geological maps of L.G.M.E.: Digitizing and data harmonization: A Photiades, A Zeravakov

GTN01222P Structure perikratonnykh of immersions Northern Eurasia on the basis of spatial distributions of geodinicators: J Gololobov, A Atakov, A Kirsanov

GTN01223P GIS-correlation models of basement-cover relationship within the East European Craton: D Kurlovich

GTN01224P The combined use of historical analysis and LIDAR technology for the study of river adjustments and evolution in the Po Plain (Italy): G Lollino, P Allasia, C Audisio, M Baldo, D Giordan, C Rivarossa

GTN01225P Image processing for continuous digital borehole core images from KIX18-1, Japan: N Inoue, N Kitada, K Takemura, T Tabata, T Emura


GTN01227P Tool seismic engineering-geological studies of grounds with estimation of ecological safety: O Sagaydachnaya, B Kanareykin, A Salnikov

GTN01228P Studying of geodynamic processes on platforms with use of microseism: F Yudakhin, N Kapustian

GTN01229P Polarization filters based on the multi-component complex trace analysis method: K Kim, S Lee

GTN01230P Characterization of rocks structure using electromagnetic anisotropy properties: Study of volcanic rocks (phonolite) by hyperfrequency polarimetry: K Moris, F Gambou, J Bacou, B Bayard, C Maurice

GTN01231P Geochemical exploration by means of the method of analysis of superline fraction (MAF): S Sokolov, A Marchenko, Y Makarova, V Ilchenko

GTN01233P Remanence control on planetary anomalies due to exchange-coupled nanoscale intergrowths in natural magnetic oxides: S McEnroe, K Fabian, P Robinson

GTN01234P Application of X-ray computed microtomography for zircon geochronology: Y Plotkina, E Salnikova, A Kotov

GTN01235P Petrophysical properties determination of furnas formation sandstone by X-ray microtomography: C Appolonii, J Fernandez, C Fernandes, A Moreira

GTN01236P Micro- and dual-energy X-ray computed tomography investigation on some south Carpathians metamorphic rocks: O Dulii, E Negulescu, M Ilovea, I Tiseanu, A Dobrescu

GTN01237P Computerized tomography (CT): A powerful technique for micro structural analyses on natural building stones: J Dewancke, V Crudele, Y De Witte, M Boone, D Van Loo, L Van Hoorebeke, P Jacobs

GTN01238P Geological exploration using TBM and its performance prediction parameters: R Botre

Thursday 0800h–1900h
HPF-14 Major events in the evolution of terrestrial biota

HPF14209P Fossil plants in hot spring deposits associated with a Jurassic epithermal environment in the central Deseado Massif, Argentinean Patagonia: P Moreira, A Channing, R de Barrio, M del Blanco, R Fernandez, I Schalamb, A Zamuner

Thursday 0800h–1900h
HPF-16 Correlation between marine and terrestrial ecosystems

HPF16207P Correlation of the marginal marine Jurassic-Triassic Kapp Toscana Group and Kobbe Formation of the Barents Sea: An integrated biostratigraphic and wire-line log approach: D Bell

Thursday 0800h–1900h
HYH-02 Groundwater resources and management

HYH02239P Hydrogeoeological conditions of Usturt and substantiation for rational use of underground waters: S Radjabov, N Takhirov

HYH02240P Identification of hydrogeological key structures in NW Iberia watersheds: A regional hydrogeomorphological approach: J Teixeira, M Afonso, A Gomes, R Pinho, A Perez Alberti, J Carvalho, J Marques, H Chamine

HYH02241P Hydrogeological investigations in Siwalik Foothills using Remotely Sensed data: D Oyun

HYH02242P Effect of groundwater particles on element distribution and its implication for hydrogeochemistry in As-affected aquifers of the Hetao Basin, Inner Mongolia: H Guo, X Tang, S Yang, B Zhang, Y Li

HYH02243P Appliance of hydrodynamical model on groundwater source Fiserov Salas (Serbia): Possibility of groundwater source protection: M Krmpotic, D Polumic, V Dragic, V Zivanovic

HYH02244P Hydrochemistry of main groundwater basins of Albania: X Kumanova

HYH02245P Hydrogeological conditions in the Danube alluvial plain in the Vojvodina region, Serbia: D Stojilkovic, G Sekularac, M Rajic
HYH02246P Groundwater residence time and nitrate contamination in shallow aquifers formed in crystalline rocks and basin sedimentary fills (Czech Republic): R Kadlecova, F Buzek, H Oster, J Bruthans

HYH02247P Geochemical and stable isotopic evolution of the aquifer system in Qingshuihe basin, northwestern China: X Li, X Hou, L Zhang

HYH02248P Groundwater Basin Monitoring System in Chiba Prefecture, Japan: A Kagawa, K Furuno, H Nirei, T Kusuda

HYH02249P Ground water monitoring within the Russian Federation – Information basis for ground water resources management: S Spektor

HYH02250P Contamination risk mapping of Martil-Alilia detrital aquifer of Tétouan Province, Morocco: M Draoui, B Andreo-Navarro, K Targuisti El Khalifi, J Stitou, R Bardai, A Maate

HYH02251P A method for vulnerability assessment with respect to leaching of pesticides to groundwater in Denmark. A modelling and meta-modelling approach: P van der Keur, B Iversen, M Greve, S Torp, A Hojberg, J Kjær, E Nygaard

HYH02252P Use of low-mineralized ground water for the water supply of oil and gas industry facilities in north-east Caspian sea region: Z Kadyrgaliyeva, V Chshen, V Zavaley

HYH02253P Study of space distribution aquifer parameters as a basis of an effective operation and management of ground water: P Nagevich, O Chebotareva

HYH02254P The relevance of volcanic rocks differentiation in aquifer vulnerability assessments: R Morales, R Rodriguez

HYH02255P Evaluation, management and protection of groundwater resources in semi-arid zones: Study of the water recharge problematic in a semi-arid zone (climatic and anthropic impacts): The case of the Essouira aquifers system (Morogador, Morocco): M Bahir

HYH02256P Underground waters evolution of a hyper-genesis zone in conditions of technogenesis in the Turanian platform: S Radjabov, N Takhirov

HYH02257P Pattern of seepage from Indira Gandhi Canal and recharging of ground water in parts of the command area in Northwestern Rajasthan, India: A geoelectrical resistivity survey: A Baghela, B Paliwal

HYH02258P Combined use ground and surface water: E Proshkina

HYH02259P Lignite exploitation impact on groundwater resources in SW Romania: M Palcu, G Witek, A Briceag, M Melinte

HYH02260P Tectonic control of geothermal resources in the peripheral area of Orós Basin, Northern China: G Wang, W Lin

HYH02261P Ground water management in Uzbekistan: A Avlonov, V Borisov

HYH02262P Groundwater renewability in the deep confined aquifer, North China Plain: Z Chen, J Qi, W Wei, Y Wang

HYH02263P Incorporation of aquifer storage capacity for improved guarantee in water supply: J López-Geta, S Martos-Rosillo

HYH02264P The research about the groundwater and vegetation ecological relationships in the Manas River Basin, Northwestern China: S Liu, Z Liu, S Han, D Chen, X Wang, X Zhou


HYH02266P Division of Yimuqan well field protection zone, Baoding, China: Y Tong, J Li, X Wang, J Fan

HYH02267P Paleogeographical reconstruction of the structure on the aquifers present in an industrial developed area in southern sicily (interactions among): Discharge, salt-water intrusion and pollutant transport: M Dipasquale, N Mazzurco

HYH02268P Evolution and conservation of groundwater in North China plain: Y Fei, Z Zhang, F Zhang, Z Wang, Y Qian

HYH02269P Groundwater pollution in Gümüşöçiyköy (Amasya) aquifer, Turkey: A Fýrat Ersoy

HYH02270P GIS-based cartography for the assessment and management of groundwater resources: Applications to urban hydrogeology: M Afonso, A Pires, A Gomes, M Lopes, N Devy Vareta, J Marques, H Chamine

HYH02271P Hydrochemistry, origin and recharge estimates of groundwater in the Ordsos Plateau, China: L Yin

HYH02272P Ecologically based assessment of surface water impact on groundwater: B Thulin, H Hahn

HYH02273P Groundwater resources in the Carpathian mountains: E Petru, M Palcu, M Enciu


HYH02275P Groundwater lowering in limestone for Holma ramp and cut and cover tunnel for Malmo Citytunnel Project: P Laursen, D Pedersen, K Vrang

Thursday 0800h–1900h
IEH-05 History of exploration of the polar regions
IEH05207P Heroes and hardships: Is there value in the early history of polar exploration for the science classroom?: R Clary, J Wandersee

Thursday 0800h–1900h
IEH-03 Myth and geology
IEH03206P Sea level changes in ancient myths and legends: V Trifonov
IEH03207P Kuhkai (774–835 A.D.): founder of the Shingon sect of esoteric Buddhism and his geological and alchemical references: T Kutsukake

Thursday 0800h–1900h
IES-01 General contributions to geoheritage and society
IES01212P Geoheritage the secondary resources to press ahead regional economy: Y Zheng, M Wang, G Hu, Y Wang
IES01213P Decay and conservation studies of the dinosaur footprints of eastern Spain: M Badia, J Prada, A Alvarez, O Oms, R Estrada, M Arribas, C Santisteban, G Angel

IES01214P The Museum of our Geological Heritage: Small geoheritage museums support local communities: A Koutsouveli, G Fermeli

IES01215P The “written stones” of the Montesinho Natural Park: Where palaeontology meets popular legend: A Sa, J Gutierrez-Marco, C Meireles

IES01216P Huge meteorites as earth firm memories, future danger signals and alerting suggestions to protect our planet: G Finzi Contini

IES01217P Nordic ornamental stones in Cracow architecture: J Rajchel

IES01218P Geoconservation for sustainable development and propaganda of Earth sciences: I Fishman

IES02219P Geosites inventory of the northwestern Tabular Middle atlas of Morocco: M ElWartiti, A Malaki, M Zahrani, F Di Gregorio, J De Waele

IES02220P Natural and man induced geohazards tentatively interpreted by using Thom’s theory of catastrophes: G Finzi Contini

Thursday 0800h–1900h
MAG-04 Scales, scaling, non-linearity and complexity in the geosciences

MAG04212P Fractal modelling of fractures in the carbonate Ifrane-Seffrou aquifer system (Morocco): M Rouai, F Moreau, O Dauteuil, A Darif

MAG04213P The dynamics model of metallization enrichment and its application in mineral resource prediction: W Shen, H Du

MAG04214P A transferable method for the automated grain sizing of river gravels: D Graham, S Rice, I Reid

MAG04215P Nature ideas of multiscale surfaces organization: N Smirnova

Thursday 0800h–1900h
MRB-01 General contributions to industrial mineral deposits

MRB01208P Geoecological potential of quartz for metallurgy: J Fernandes, J Velho

MRB01209P A preliminary stable Isotope study on Mogok Ruby, Myanmar: T Yui, K Zaw, C Wu

MRB01210P Cosmogeological map of Kazakhstan, forecast of mineral fields, and a challenge of cosmic protection of the planet for preserving life on earth: B Zeilik, S Urazaeva, E Seitmuratova, Z Yesbulatova, V Petrovskiy

MRB01211P Isotope characteristics of Veitsch type sparly magnesite: F Ebner, A Azim-Zadeh, S Jiang

MRB01212P The Kumat large nitrate deposit in the Turpan-Hami basin: W Ge, K Cai, S Sang, B Qiu

MRB01213P Problems of amber of Polissya in Ukraine: V Prokopets, V Matsuji, Y Rudyuk

MRB01214P The structure of rare-metal mineral-resource base in Russia: M Komin, T Usova

MRB01215P Lithology and genesis of Plattekop hill as an extension of the Vergenoeg flourspar deposit: A Fiege, S Germerott, F Holtz, U Schwarz-Schampera, P Schuette, H Terblanche

MRB01216P The talc/soapstone deposits in the Linnajavri area, Nordland, north Norwegian Caledonides: L Nilsson, I Lindahl

MRB01217P Devonian and Quaternary illite clay of Latvia: Origin, composition and estimation for ceramic production: G Stinkulis, G Sedmale, U Sedmalis, J Sperberga

Thursday 0800h–1900h
MRC-08 Geological construction materials

MRC08233P Bedrock quality study for preparation of digital map at the Wanjuy area, Korea – A case study: S Hong, J Lee, H Yun, J Kim

MRC08234P Designing dacite quarry developing options: I Ureche, D Onescu, D Papp

MRC08235P The sustainable exploitation of aggregates and other mineral resources in Hungary: an overview: Á Török

MRC08236P Exploration guide applied to carbonate mining in the cambrori-ordovician platform in the andes: A Arroqui-Langer, O Bordonaro, M Ravilo

MRC08237P Chemical mineralogical characterisation of recycled aggregates vs natural aggregates for concrete: E Marroccchino, A Koulitis

MRC08238P Pore structure of concrete with recycling aggregates: K Rübrner, H Kühne

MRC08239P Aggregates for concrete: A comparison of products from raw and secondary materials: R Bellopede, P Marini, C De Regibus

MRC08240P Fabric related changes in water absorption and strength of Miocene porous limestones: the commonest dimension stones of Budapest: Á Török

MRC08241P Effect of crystallization inhibition chemicals on the growth of deleterious secondary sulfate minerals of concrete: H Lee, J Hwang, J Oh, K Kwack, S Akther

MRC08242P Staining of Carrara marble inside the new Oslo Opera house: R Selbekk, E Roaldset, H Berg

MRC08243P Use of confocal microscopy for characterization of microstructure and surface characteristics of geological materials: A Mauko, A Madlenovic

MRC08244P Comparison of static and dynamic elastic modulus in fractured building rocks: J Martinez-Martinez, D Benavente, M Garcia-del-Cura

MRC08245P Soapstones – how should they be defined: A Kärki, S Leinonen, J Uusitalo

MRC08246P Geotechnical characteristics of ignimbritic tuffs: E Vicente, D Amurane, E Lucas

MRC08247P Optimisation of an abrasion resistance test method on natural stones: P Marini, R Bellopede, C De Regibus, L Perino

MRC08248P Which natural stone, where?: O Angi

MRC08249P Weathering prone sandstone types used in cultural heritage monuments exposed to Northern climate: I Sidraba, V Hodireva
MRC08250P Critical rainfall thresholds for triggering debris flows in marble quarry wastes: The example of the carrara basin (Apuan alps, Italy): R Giannecchini, S Piccoli, G D’Amato Avanzi

MRC08251P Sustainable recovery of dimensional stones for exceptional restoring of monuments: The case of Holy Shroud Chapel (Turin, NW Italy): A Giuliani, M Formaro, M Gomez Serito

MRC08252P A study of reclamation mechanism about abandoned mine: L Li, R Pei, P Zhu, H Wang

MRC08253P Chemical-mineralogical characterisation of construction and demolition waste and hypothesis for their reuse: A Toffano, E Marrocchino, C Vaccaro

MRC08254P Ornamental limestone waste used as armourstone: Some examples from SW Spain: M García-del-Cura, D Benavente, A Bernabéu, J Martínez-Martínez, J Cañaveras

MRC08255P Evaluation of GCC from wastes of marble production in Spain: J Bastida, A Lazaro, M Urquiola, R Ibañez, P Pardo

MRC08256P On controlling conditions and mineralization mechanism of non-metal deposits in continental volcanic-sedimentary rock series: G Li, Z Shen


MRC08258P Towards sustainable management of secondary aggregate resources via material flow optimization: S Vuori, A Torppa, P Härma, P Kuula-Väisänen, M Kaisänen, M Tuusjärvi

Thursday 0800h–1900h

MRD10214P Geology, geodynamics and ore fields of the Kazakhstan Paleocoloum's Main Suture Zone (MSZ): A Smirnov, O Fedorenko, V Krasnobotrodkin, M Rafailovich

MRD10216P the spatial organization of large ore objects location: V Lose, V Góryaeva

MRD10217P Formation conditions of significant wolframite – molybdenum ore deposits in central Kazakhstan: A Mazurov

MRD10218P Non-traditional precious-metallic mineralization of Median and Southern Tien-Shan: E Igamberdiev, R Yusupov

MRD10219P Ophiolite complexes of Central Kazakhstan: H Ismailov, R Antonyuk, R Yevseenko, B Khamzin, V Veepolov

MRD10221P Geodynamics and geological and genetic model of large deposits of Kazakhstan: K Abdrahmanov

MRD10220P Ore deposits and resources of Northern and Polar Urais: B Mikhailov, R Terentiev, A Kremenetskiy, S Beskin, V Skyabin, A Alekseeva, G Fershtater, G Kremenetskiay

MRD10222P Vanadium bearing titanomagnetite of Saks Palaeocean, Northern Tien-Shan (Kyrgyzstan): K Sakiev, A Bakirov

MRD10223P Karatau province of vanadium bearing slates: N Kulkashev, M Saiduakasov

MRD10224P Iron source in gigantic skarn – magnetite deposits of folded areas: A Sharapatov, K Abdrahmanov

MRD10225P Karatauskaia polymetallic province: Y Zorin, B Nigmatov, Y Puchkov, B Buvtyshkin, L Golub, A Zorin, V Koshelkov

MRD10226P Complex polymetallic and ferromanganese deposits of central Kazakhstan (atass type): B Khamzin, V Zhubovsky, Y Malchenko

MRD10227P Lead-zink deposits of the Tekel anticlinorium at the Jungar Alatau: A Smirnov, A Dubovsky

MRD10228P The paleozoic volcanic belts of Kazakhstan and their copper content: G Bekzhanov, Y lälchenko, V Zhubovsky, B Khamzin, T lälchenko

MRD10229P Cupriferous sandstones of Kazakhstan: B Syusyura, O Tyugay

MRD10230P Dadonggou Pb-Zn ore deposit in the Devonian volcano-sedimentary Kelan basin of southern Altay, Xinjiang: M Liu, Z Zhang, X Guo, Y Wang

MRD10231P Kalba gold and rare-metal deposits, Kazakhstan: B Dyachkov, N Maiorova, T Nikitina, N Polyansky, N Kadenov

MRD10232P The age of gold-sulfide (Au-As) and gold-telluride mineralization of the Eastern Kazakhstan and correlation with magmatism: E Naumov, A Borisenko, K Kovalev, Y kalinin, I Treytakova

MRD10233P Kokchetau mid-massif – the large-scale gold-rare metals and diamond-bearing province: N Adamyan, B Bekmagambetov, A Zayachkovsky, Y Zorin, A Kuzovenko

MRD10234P Distribution of PGE in selected Au and Cu-Au deposits of the Chatkal-Kurama region in Uzbekistan: Results from preliminary geochemical study: A Vymazalová, J Pašáva, R Koneev, A Jukov, R Khammatov

MRD10235P Vertical zonality of epithermal gold deposits (Chatkal-Kurama region, Uzbekistan): S Smirnova, V Kozlov, O Shamaev

MRD10236P Pyrite evolution at large gold deposits in Kyrgyzstan: N Maluykova, N Pak

MRD10237P Terrane structure and metallogeny of the Tien Shan Caledonides: R Maksumova, R Djenchuraeva

MRD10238P Prognois of deep-laid gold mineralization within the Kyzylalsmas deposit (Uzbekistan): B Islamov

MRD10239P Factors of deep-seated forecast of gold mineralization within Central Kyzylkum by deep-storied zonality of ore formations: I Sagdullaev

MRD10240P Relationships of distribution of Kazakhstan uranium deposits and criteria of their prognosis: K Aubakirov

MRD10241P Central Kyzylkum uranium province: N Mavlyanov, Y Korsakov

MRD10242P Hydrothermal Ni-Co mineralization of central Asia: Geochemistry, age and correlation with magmatism: A Borisenko, V Lebedev, I Tretyakova, A Travin, G Pavlova

MRD10243P Main structures and characteristics of the uranium-rare-metal ore concentration in the western part of central asia (Tien shan): I Turamuratov, Y Yejkov
Thursday 0800h–1900h

MRD-11 Metallogeny of Fennoscandia

MRD11209P The age of the Early Proterozoic auriferous volcano-tectonic caldera-like Panarechka Structure: Isotope U-Pb data on zircon (Kola Peninsula): A Chernyshov, P Skuf’ in

MRD11210P Metallogenic map of the Russian Fennoscandian shield: V Feoktistov, M Korsakova, S Krasotkin, O Petrov, V Shatov, V Stromov

MRD11211P Initial gold in mafic-ultramafic series of south-east of Fennoscandia: V Kulkova, V Kulkov, V Bychkova

MRD11212P Magnetic and electron microscope identification of Fe-minerals in four selected samples from the Tjäröjakka Cu-prospect, Sweden: A Sandrin, T Waist, S Elming

Thursday 0800h–1900h

MPC-01 General contributions to geochronology and isotope geology

MPC01207P $^{234}$U, $^{238}$U, $^{87}$Sr/$^{86}$Sr of Celestine Deposits from Tertiary Sivas Basin, Turkey: A Ucuroom, O Koptagel, A Efe, C Sahin, G Ahearth, P Lechler

MPC01208P Archaean geochronology of the Murmansk domain and gold deposits of the Kolmozero-Vorona greenstone belt (Kola peninsula, NE Baltic Shield): N Kudryashov, N Kozlova, N Gallkin

MPC01209P SHRIMP dating and geochemical effects of Shangyou pluton in South Jiangxi: Q Hu, Q Zeng, J Mao, H Ye, X Zhao

MPC01210P Mantle and crust isotope signatures in the Urals massive-sulfide deposits by high-precision MC-ICP-MS lead isotope study: I Chernysh, I Vikent’ev, A Chugaev, K Shatagin, V Moloshag

MPC01211P Geological effects of the general theory of relativity: F Usmanov

MPC01212P Petrology and Sr-Nd isotopic evolution of mafic to felsic volcanic rocks from the Ulubey (Ordu) area, eastern Pontides, NE Turkey: I Temizel, M Arslan, J Peucat

MPC01213P Oxygen-18 and carbon-13 isotopic composition of authigenic carbonates from fluid vents: Implications for the precipitation reconstructions: E Logvin, T Matveeva

MPC01214P Nitrogen and N-isotope variation during low-grade metamorphism of the Taiwan mountain belt: T Yui, S Kao, T Wu

MPC01215P Strontium isotope age determination of late Cretaceous carbonate successions in northeastern Brazil: A Barbosa, A Sial, V Neumann, V Ferreira, M Pimentel

MPC01216P Substitution of Os and Re in the structure of molybdenite – experimental approach: M Drabek, M Rieder

MPC01217P Growth induced desymmetrization of physiochemical properties and Sm-Nd isotope system in fluorite crystals from the Nordic Salt Dome (Taimyr): P Smolyanskii, V Proskurnin, E Bogomolov, E Tolmacheva

MPC01218P Method of genetic interpretation of in-situ U-Pb zircon geochronology of metamorphic rocks using data on melt- and fluid inclusions in zircons: E Tolmacheva, T Saltykova, T Sergeyev, S Velikoslavinsky

MPC01219P Scale of volcanogenic Au-Ag deposits according to helium and argon isotopic data (northeastern Russia): O Petrov, E Prasolov, M Roinov, K Lokhov, S Sergeyev

MPC01220P Noble gases isotopic features of mafic intrusions (Taimyr-Norilsk area) as the indicator of Cu-Ni-PGE ore accumulation scale: E Prasolov, V Khalenov, K Gruzdev, S Sergeyev

MPC01221P U/Pb and Pb/Pb LA-ICP-MS dating by non-traditional mineral chronometers: I Kapitonov, E Adamskaya, S Sergeyev, M Maschak

MPC01222P Early archaean tectonothermal event at the Enderby Land (East Antarctica): Results of Zircon study: N Rodionov, B Belyatsky, A Antonov, S Sergeyev

MPC01223P Magmagetic evolution of granitic rocks along Yangsan strike-slip fault, Gyeongsang Basin, SE Korea: SHRIMP-IRG dating and tectonic implications: B Hwang, W Ernst, M Son, J Lee

MPC01224P Accessory zircon from the modern oceanic crust: S Presnyakov, A Lepekhina, B Belyatsky, O Shuliatin, A Antonov, S Sergeyev

MPC01225P Tonalite-Trondjemite Gneiss of 2nd and 4th units of the kola superdeep borehole: Revealing of protolith nature by REE and U-Pb Local SHRIMP analysis of zircons: S Presnyakov, N Berezhnaya, V Chopin, S Sergeyev

MPC01226P Meso- and Nearchaean ages of metamorphic event in granulite rocks of Irkutny block, Sharyzhygyl terrane: REE and U-Pb SIMS zircon data: N Berezhnaya, O Turkina, S Skublov, E Lepekhina, I Paderin, T Saltykova, S Sergeyev

MPC01227P Nd isotopic composition, Sm-Nd and U-Pb ages of peridotite xenoliths from alkaline basaltis (Vitim area, Transbaikalia): What are “memories” of the lithosphere mantle?: I. Nikitina, E Bogomolov, A Saltykova, V Guseva, P Lebedev

MPC01228P Method of the chemical extraction of $^{230}$Th/$^{235}$Pa isotopes from the sea bottom sediments for the following determination of their exact amount: A Kuzma, K Gruzdev, O Dundo

MPC01229P The content of $^{230}$Pa in the spheroidal and flat ferromanganese concretions: Estimation of ferromanganese concretions growth rates: K Gruzdev, A Grigoriev, V Zhamoida, K Krymsky, A Kuzma

MPC01230P Determination of the content of $^{231}$Pa and $^{230}$Th in the sediments of The Sea of Okhotsk using the liquid scintillation counting method: K Gruzdev, A Kuzma, O Dundo

MPC01231P C-O-H isotopes and fluid studies as tools to constrain granulite petrogenesis on Ribeira fold belt (SE Brazil): T Bento dos Santos, J Munhá, C Tassinari, F Noronha, A Guedes, F Fonseca, C Dias Neto, A Dória

MPC01232P Geochronology, geochemistry and petrogenesis of the granites in northeastern part of Great Xing’an range, China: X Xu, Z Sui

MPC01233P U-Pb (SHRIMP) isotope ages of Early Paleozoic magmatic arc volcanism of the inner western carpathians (Southern Gemenic, Slovakia): A
Vozárová, K Šarinaová, S Sergeev, A Larionov, S Presnyakov

MPC01235P New Raman spectroscopic studies of the Zircon from the Precambrian-Cambrian boundary at the Meishucun section in Yunnan: Y Wang, Y Wang, H Li, Zhou, Q Chen

MPC01236P Ages and compositions of magmatic inclusions as an indicator of origin of zircon from tonalitic-trondhjemitic gneiss of the Kola Superdeep Borehole (Baltic Shield): V Chupin, V Vetrin, N Berezhnyana, S Sergeev, N Rodionov, S Presnyakov

MPC01237P Rb-Sr Isotopic Dating of Clay Minerals from Cambrian-Ordovician Boundary: H Li, Y Wang, J Yang

MPC01238P Age and origin of the Mesoproterozoic basement of the Nesodden Peninsula, SE Norway: A geochronological and isotopic study: E Pozer Bue, T Andersen, A Lundmark

MPC01239P The age of dunite-clinopyroxenite cores of Kytlym and Galmoenan zonal Ural-type massifs by U-Pb data of zircons: O Knauf

MPC01240P Rb – Sr Isotopic age and Isotopic Geochemistry of Pb, Sr and Nd from the Rhyolites at Eastern Tianshan in Xinjiang: W Yinx, L Himing, G Lianxing, Z Zhunzhong, W ZhangZhi

MPC01241P Juvenile and old components in Proterozoic crust; examples from Lu-Hf isotopes in zircon from magmatic Svecofennian and rapakivi rocks in Sweden: U Andersson, W Griffin, Begg, K Hogdahl

Thursday 0800h–1900h
OSPO01 General contributions to marine geoscience & paleoceanography

OSPO81212P Principle of mapping geological map of Eastern Sea of Viet Nam at the scale 1:1,000,000: N Tran, T Dao Manh, T Dinh Xuan, T Nguyen Trong

OSPO81213P Benthic fluxes of iron and manganese under various redox conditions in the near-bottom water and in the sediment: S Pakhomova

OSPO81214P Centennial-scale correlation of a 50-125 ka Nordic Seas marine record and Greenland ice core isotope data based on XRF core scanner technique: J Brendryen, H Hafldadson, H Sejrup, K Grasmo

OSPO81215P Iceberg keel marks on the Porcupine and Rockall Banks, NE Atlantic: X Monteys, D Praeg, S Caloca, S Garcia-Gil

OSPO81216P Influence of planktic foraminiferal morphotypes, shell size, and weight on Mg/Ca ratios: O Friedrich, R Schiebel, M Cooper, P Wilson

OSPO81217P Interaction between atmosphere ecosystem and marine environment in Nigeria: T Salami

OSPO81218P Laminated sediments in the Southern Norwegian Sea during the last three climate cycles: C Zühlsdorff, H Hafldadson, H Sejrup, J Brendryen, K Grasmo

OSPO81219P Mid holocene temperature variability, stable isotope evidence from Voldafjorden, western Norway: H Kjennbakk, H Hafldadson, H Sejrup

OSPO81220P Mud volcano discovery on a slope basin of the accretionary margin of Central Chile: X Contardo-Berrios, J Cembrano, A Jensen

OSPO81221P Organic elemental C/P ratio seasonal variations in sediments of a tropical lagoonal-estuarine system: R Lima Barcellos, E Santis Braga, G Bueno Benedetti Berbel, V Veronese Furtado

OSPO81222P Paleoenographic and paleoclimate proxies from pelagic marl-limestone geochemistry and rock magnetism, Lower Kimmeridgian, Vocontian Basin, France: S Bouilla, B Galbrun, L Hinno, M de Rafelis, P Collin

OSPO81223P Paleoceanographic variability during MIS 7 in the Norwegian Sea; a multiproxy study: K Grasmo, H Hafldadson, H Sejrup, C Zühlsdorff

OSPO81224P Sedimentological map of the Gulf of Cagliari – South Sardinia, Italy: S De Muro, C Kalb, N Pusceddu, M Cosselli, L Lecca


OSPO81226P Trace metal accumulation in deep-sea sediments at cold seep sites, Nankai Trough: H Sato, K Hayashi

OSPO81227P A hydrosphere spending hypothesis of the Earth hydrosphere in the geological age: B Liu, J Sha

OSPO81228P Tracing the source of sediments / pollutants through sedimentology and geochemistry of Chabahar Bay: A Mohammadi, R Lak, H Hooshmand

Thursday 0800h–1900h
STNO02 Neotectonics and stress state in formerly glaciated regions

STNO82211P Field evidence for neotectonic activity on the SW Baltic Sea (NE Germany): G Hoffmann, K Reicherter

STNO82212P Present-day stress orientations in Norway as deduced from stress-release features: C Pascal, D Roberts, R Gabrielsen

STNO82213P Phase amplitude ratio method in constraining source parameters of small earthquakes: M Uski, K Sahala, A Korja

Thursday 0800h–1900h
PEH01 Hazards: minimizing risk, maximizing awareness

PEH01225P Seismic cycle behavior in a continental convergence area and implications on time-dependent seismic hazard evaluation: M Popa, M Popa, M Rudulian, N Mandrescu

Thursday 0800h–1900h
STTI01 General contributions to tectonics and structural geology

STTI81232P The dynamic analysis of the inversion structures on the Northern Marginal Basins of the South China Sea: W Xie, Y Zhu, J Jiang, L Hu, K Guo, X Wei

STTI81233P Transpression in the Variscan orogen: The southern Meseta zone of Morocco: A Cerrina Feroni, A Ellero, M Malusà, G Musumeci, G Ottria, R Polino
STT01234P Seismic activity and active tectonics of northern Libya: A Ben Suleman

STT01235P Geomorphology of the Ophiolitic complex in northern central part of Mirdita tectonic zone in Albania, analysed by method of geomorphology: D Kolndre

STT01236P Late Cenozoic morphotectonic features of the thrust belt in the front of the west Kunlun mountains: J Pan, H Li, V Jerome, Z Sun, J Pei, J Si

STT01237P On the active tectonics of northern Central America and the Middle America Trench: Constraints from finite element modelling: J Álvarez-Gómez, P Meijer, J Martinez-Diaz, R Capote

STT01238P Plio-Quaternary tectonic evolution of the Northern Apennines thrust fronts: Seismotectonic implications: S Seno, G Toscani, P Burrato, D Di Bucci, G Valensise

STT01239P Fractured cobbles and outcrop-scale deformation reflect stresses associated with brittle regional detachment faulting; Titus Canyon formation, Death Valley region, California/Nevada, United States: E Riggs, C Lindemann

STT01240P Modelling of rift phases and paleo-plateau flow for the Voring margin (offshore mid-Norway): M Wangen, W Fjeldskaar, J Faleide

STT01242P 40Ar/39Ar ages (600-570 Ma) of the extensional structures in the southern part of the Ribeira belt, southeastern Brazil: R Machado, N Dehler, P Vasconcelos, T Karniol, J Endo

STT01243P The constraint of the Altnyn Tagh fault system to growth and rise of the northern Tibetan Plateau: H Li, J Yang, Z Xu, T Paul, V Jerome, M Anne-Sophie

STT01244P A detailed geophysical and geological study on Møre-Trøndelag Fault Complex (MTFC), mid-Norway: A Nasuti, E Ebbing, C Pascal

STT01245P Formation of carbonate cataclasites by fault-breccia recycling: S Hausegger, R Rabitsch, W Kurz, H Fritz, K Krenn

STT01246P Alpine metamorphic and tectonic evolution of contact between Variscan and alpine Cordisca in the Corte-Inzeccia area (Corsica, France): F Garfagnoli, F Menna, E Pandeli, G Nirta, G Principi

STT01247P Zircon-bearing chlorite schists in the Sierra Bermeja massif (Ronda peridotites, Betic Cordillera): J Esteban, J Tubia, J Cuevas, N Vegas

STT01248P Effect of activation of the pelvis megashear system on the Nile river bents: E El-Sawy

STT01249P Emplacement of the Ronda Peridotites: Deformation and kinematic characterization of a melt-bearing shear zone (Guadaira nappe, Betic Cordilleras): J Esteban, J Cuevas, N Vegas, J Tubia

STT01250P High temperature deformation of quartz in migmatites below the Ronda peridotites (Guadaira nappe, Betic Cordilleras): J Esteban, J Cuevas, J Tubia, N Vegas

STT01251P The Proteroozoic-Paleozoic basement of the Polish Carpathians and its transformation: M Jachowicz, M Jachowicz, A Tomas, A Tomas

STT01252P Age of Kimberlite pipe: B Igor

STT01253P Multistadial Variscan evolution of the western edge of the Brunovistulicum terrane, Opava Mts., Poland: J Giesielczuk, J Zaba

STT01254P (U-Th)/He dating of low T metamorphism in the Penninic sector (Ligurian Alps, Northern Italy): Inferences on deformation ages of Alpine tectonic evolution: M Maino, G Dallagiovanna, L Gaggero, C Persano, S Seno, F Stuart

STT01255P Indo-Burman suture and orogeny in the western Himalaya and western China: A Guo, Z Sun, G Li

STT01256P Composite dynamics of the Helan-Chuaner S-N tectonic zone and the eastern boundary of Qinling-Himalaya in China: A Guo, S Cheng, A Yao

STT01257P Tectonic nature and formation stages of the elements of the pre-Alpine structure in the Western Ukraine: M Pavlyuk, A Medvedev

STT01258P Deformation processes of quartz schists in the Sambagawa metamorphic belt, SW Japan and a deformation mechanism map estimated from naturally deformed rocks: I Ishii, K Kanagawa, N Shigematsu, T Takeshita

STT01260P Cenozoic basin-range coupling of northwestern margin of the Tibetan plateau: J Si, H Li, Z Sun, J Pei, J Pan, V Jerome, Z Qiu

STT01261P The tiburon and barracuda ridges linked with a recent N-S American plate convergence: Results from the Antiplac Marine survey: F Benard, F Deville, M Patriat, E Le Drezen, B Loubrieu, E Thereau, M Umber, W Roest, R Vially


STT01263P Structural evolution around the bend of the Yangsan fault, SE Korea: Y Kim, J Choi, S Yang

Thursday 0800h–1900h

AMS05 Active tectonics in South America

AMS05201P Role of silica-rich fluids in co-seismic reactivation of intraplate faults around the Potiguar basin, Brazil: F Bezerra, M Sousa, L Jean-Michel, J Ferreira, A do Nascimento

AMS05202P Recurrent tectonic reactivations in the Espirito Santo basin, Brazil’s South Atlantic margin: Association of volcanism and neotectonics: L Novais

AMS05203P Paleoseismological significance of sedimentary-filled faults in northeastern Brazil: F Nogueira, F Bezerra

AMS05204P Quaternary reactivation of a major rift structure in a passive margin: The Pirapenas lineament in the northeastern Brazil: R Almeida-Filho, D Rossetti, F Miranda, F Ferreira, C Silva, C Beisil

AMS05205P Tectonics of the quaternary la gonzalez basin (Merida Andes, Venezuela): B Monod, D Dhont, Y Hervouet, S Klarica, J LaFaille, B Nivierre

AMS05206P Characterization of liquefaction in gravels: E Moura Lima, F Bezerra

AMS05207P Rapid changes of stress-field in the passive continental margin of southeastern Brazil: C Riccomini
Friday 8 August – Early Morning

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The following symposia begin in this session. Some symposia continue on the next day. Next day presentations may be found in the next day section.

Friday 0830h
AAA-11 Metallogeny of the Arctic region
0915h AAA11302L Tectonic and metallogenic evolution of Northeast Asia: W Nokleberg, L Parfenov, C Scotece, G Badarch, N Berzin, A Khanhukh, M Kuzmin, A Óbolenski, A Prokopenko, S Rodionov, H Yan
1030h AAA11303L Mineralogy and paragenesis of selected base metal deposits, NW Spitsbergen, Svalbard: N Cook, T Kjærnet
1045h AAA11304L Metallogeny of Pb-Zn-Ba vein mineralizations in Svalbard, Norwegian arctic: T Segalstad, K Sundblad, T Kjærnet
1100h AAA11305L Metallogeny of the Kolsvik Gold Deposit at Bündalen, Northern Norway: T Segalstad, H Berg, L Telstø
1115h AAA11306L Thermochromical modelling of the Kongsberg silver ore deposit, Norway: T Segalstad
AAA11307P Diamondiferous kimberlites of the East European Platform: Specific features: A Malov
AAA11308P Geological and geochemical data for the gold-bearing mafic granulites of the Aldan Shield (northeast Asia, Russia): A Smelov, A Kravchenko, V Dobretsov, V Beryozkin
AAA11309P Metallogeny of Precambrian gold in the Anabar Shield (Russia, Arctic region): A Smelov, V Dobretsov, A Kravchenko
AAA11310P Mining mitigation in Norway: Future improvement possibilities: T Segalstad, I Walder, S Nilsen

Friday 0900h
AMS-06 Neoproterozoic to early Paleozoic orogenic belts of South America
0915h AMS06302L Provenance and tectonic setting of neoproterozoic detrital sediments of the Brasilia belt: M Pimentel
0930h AMS06303L Ar-相关的basins of the Neoproterozoic Aráçuaí orogen, SE Brazil: A Pedroso-Soares, L Silva, U Cordani, C Noce, M Martins-Neto, S Lima, V Vieira, R Armstrong, D Liu
0945h AMS06304L From pre-orogenic to post-collisional magmatism in the Aráçuaí Orogen, SE Brazil: L Da Silva, A Pedroso Soares, C Noce, C Pinto, A Gomes, O Baltazar, V Vieira, G Queiroga, R Armstrong
1030h AMS06305L Huge vertical displacement during post-collisional escape tectonic (Brasiliano Orogeny) of the Ribeira Belt, São Paulo, Brazil: P Hackspecher, É Dantas, I Trindade, R Armstrong
1045h AMS06306L A-type rift-related granite and the lower cryogenian age for the beginning of the Brusque Belt Basin, Dom Feliciano Belt, Southern Brazil: M Basei, C Grasso, S Vlach, A Nutman, O Siga Jr., L Osako
1100h AMS06307L Detrital zircon geochronology of Neoproterozoic successions reveals the Mesoproterozoic to Cambrian evolution of the Raio de la Plata Craton: C Gaucher, S Finney, D Poire, V Valencia, M Grove, G Blanco, K Pamoukaghlian, L Gómez Peral
1115h AMS06308L Petrographic and geochemical comparison between Early to Middle Cambrian and Uppermost Cambrian-Lower Ordovician quartz-rich sandstones in NW Argentina: U Zimmermann, C Augustsson, H Bahlburg, L Buatois, M Böld, G Mángano
1130h AMS06309L U-Pb detrital zircon ages and Sm-Nd isotopic data from low-grade metamorphosed rocks of the Central Andes Fatamitaní belt: Implications for Late Neoproterozoic-Early Paleozoic evolution of the proto-Andean margin of Gondwana: G Collo, R Astini
1145h AMS06310L The Puncoviscana formation (northwest Argentina) enigma: Passive margin, foreland basin or fore-arc basin?: U Zimmermann
1400h AMS06311L The Ordovician Ocoloy orogenic belt along western Gondwana: W Thomas, R Astini
1415h AMS06312L Mid-Ordovician volcanism in the western Ouachita-Cuyania basin and the coalescence of Western Gondwana: P Dickerson, C Fanning
1430h AMS06313L The Cambrian to Carboniferous migration of the Cuyania terrane of western Argentina: S Finney
1445h AMS06314L Allocchtony of the Argentine precordillera terrane: An alternative to current paleogeographical models: C Casquet, C Rapela, E Baldo, R Pankhurst, J Dahlquist, J González-Casado, C Galindo, M Fanning, J Saavedra
1500h AMS06315L The final assembly of Gondwana: The evidence from the Sierras Pampeanas: C Rapela, C Casquet, R Pankhurst, E Baldo, M Fanning, C Galindo, J Dahlquist, J Gonzalez-Casado
AMS06316P Calc-alkaline and adakitic volcanics in the paleoproterozoic Rio Itapiru Greenstone Belt, São Francisco Craton: A Ruggiero, P Paiva de Oliveira
 AMS06317P Geochemistry and nd isotopic evidence of the peninsular granitoid complex, rondonian san ignacio province, eastern bolivia: Petrogenetic constraints for a plutonicarc model: R Matos, W Teixeira, M Geraldes, U Cordani, K Sato
AMS06318P Anisotropy of magnetic susceptibility in the tavas batholith, northeastern brazil: superposed magmatic fabrics: G Mariano
AMS06319P Tectonochemical evolution of the Precambrian terranes of the SE São Paulo state, Brazil: C Passarelli, K Wemmer, O Siga Jr., S Siegesmund, M Basei

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.

The 33rd International Geological Congress, Oslo 2008
AMS06320P Retrograde metamorphism in an allochthonous sequence in the southwestern border Sao Francisco Craton: A Almeida Azzi, A Zanardo, H Giacomelli

AMS06321P Geological and geochronological setting of paranáéua domain, ribeira belt – southern Brazil: L Fadel Cury, O Siga Junior, O Harara, K Sato, M Basei

AMS06322P The tectonic interaction between the paramirim aulacogen and the araucáu belt, são Francisco craton region, eastern Brazil: S Cruz, F Alkimim, J Cunha, J Barbosa

AMS06323P LA-ICPMS U-Pb geochronology and petrology of volcanic rocks of the Neoproterozoic-Lower Paleozoic rock units of the Central Andes: Implications for the evolution of western Gondwana: N Hauser, M Matteini, M Pimentel, R Omaryn

AMS06324P U-Pb LA-ICPMS Ages and a new tectonic context for the Neoproterozoic Mara Rosa Magmatic Arc, Brasília Belt: S Junges, M Pimentel, J Laux, R Fuck, B Buh, E Danzas, C Gouveia

AMS06325P U-Pb LAM-ICPMS geological data and Sm-Nd isotopic constraints on Neoproterozoic magmatism and coeval high-grade metamorphism in the Goiás Massif and implications for the evolution of the Brasilia Belt: M Della Giustina, C Oliveira, M Pimentel, B Buh

AMS06326P Provenance studies of metasedimentary rocks in northwest Argentina: Deeper crustal equivalents of the puncoviscana formation?: U Zimmermann

AMS06327P P-T determination in Socorro Nazpe, Southern Brasilia Belt (SE Brazil): F Tavares, R Trouv, R Moraes

AMS06328P Syn – deformational migmatites and leucogranites during the anatexis of a low metamorphic grade sequences: An example from Las Cañas Complex (Sierras Pampeanas Septentrionales, Argentina): C Cisterna, R Mon, R Mena

AMS06329P Airborne geophysical and tectonics of the Central Ceara Domain, east region of the Santa Quiteria magmatic arc, Borborema Province: W Amaral, T Santos

AMS06330P Neoproterozoic oceanic remnants in the Borborema province – NE South America: B Brito Neves

AMS06331P Geochemistry and geocronology of the barra alegre granitoid, ribeira fold belt, rio de janeiro: P Dufiles, J Mendes, I Ludka, C Ávila

0930h ASI02303L Tectonics of northern Eurasia: A Yakubchuk

1030h ASI02304L Geologic and tectonic framework of Central-Northern Asia: T Li

1100h ASI02305L Metallogeny of the Altai – Identifying new terranes based on interdisciplinairy geotraverse study: R Seltmann, O Petrov, V Shatov, S Shevchenko, S Sergeev, A Borisenko

1130h ASI02306L Discuss on Mes-Neooproterozoic succession and its mineralization environments in Middle Asia and adjacent area: L Gao, S Geng

1145h ASI02307L Granitoid magmatism and mineralization in Mongolia: Porphyry systems and vein W-Sn mineralization: G Ochir

1400h ASI02308L Geodynamic position of opholite in Kazhakstan and role exhumation processes in the formation of modern morphology of opholite belts: P Yermolov, B Natal' in

1415h ASI02309L Map of reef, salinity and black shale formaions occurrence in Northern Eurasia at scale 1:5,000,000: N Sobolev, O Petrov, A Karpuzov, G Belenitskaya, V Starostsev, N Zadorozhnaya, A Karpunin, D Leonitjev, I Mozoleva, E Petrov, N Polyakova

1430h ASI02310L Tectonic cycles and stages of continents: An example from NW China: J Li

1445h ASI02311L Mesozoic tectonic-magmatic-mineralization features of the Mongol-Okhotsk orogenic belt and adjacent areas: S Geng, L Ren

1500h ASI02312L Tectonics, paleogeodynamic and metallogeny of the Okhotsk-Arctic region: V Shpikerman

1515h ASI02313L The uplifting history of one intraplate orogen (North Tien Shan)in Cenozoic, northwestern China: Z Wang, T Li, Y Liu

1530h ASI02314L Metallogenic 2.5M map of central Asia: Spatiotemporal trends in localization of mineral deposits: O Petrov, A Morozov, S Dong, E Kiselev, V Shatov, S Shokalsky, V Feoktistov, G Shatkov, T Chen, G Dejidmaa, B Kim

1600h ASI02315L Principal characteristics of the lithosphere of China and Adjacent areas: T Li

1630h ASI02316L Re-examination of the major tectonic features of the northern China and adjacent areas: B Chen, T Chen

1645h ASI02317L Thermo-Tectonic event group and stratigraphic system of Mesoproterozoic to Neoproterozoic in the central-northern Asia: S Lu, H Li

1700h ASI02318L Late Mesozoic extension in NE Asian continent: Perspectives from metamorphic core complexes: T Wang, Y Zheng, J Zhang, L Zeng, X Wang

1715h ASI02319L Transboundary correlation of magmatic and ore-generating events in western part of Altay orogen: N Gusev, S Shokalsky

Friday 0830h

ASI-02 Geology and mineral resources of Northern and Central Eurasia – Part 1

0830h ASI02301L New tectonic map of central Asia at 1:2.5 M scale: Trends of origination and reworking of consolidated crust: O Petrov, Y Leonov, I Pospelov, S Shokalsky, O Ömrurtogoo, V Eoshkin, B Chen, J Hwang

0900h ASI02302L Jurassic tectonic revolution in China and new interpretation of the Yanshan movement: S Dong, Y Zhang, C Long, Z Yang, Q Ji, T Wang, J Hu, X Chen

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.
converging Baltic, Siberia and Tarim cratons: R Van der Voo, A Abrajevitch, M Bazhenov, N Levashova
0900h ASI06302L Late Paleozoic slab break-off in the east Tian Shan: Evidence from Magmatism of Balikun, Harlik: C Yuan, M Sun, W Xiao, S Wilde, X Li, X Long, G Zhao, D Liu
0915h ASI06303L Late Permian post-orogeny tectonicss of Tianshan Belt proved by structural, geochronological, geochemical and paleomagnetic evidences: B Wang, L Shu, M Faure, D Cluzel, Y Chen, J Charvet, K De Jong
0930h ASI06304L Microcontinents in caledonides of the Tien Shan and their geodynamic evolution in a late Precambrian – early Paleozoic: R Maksumova, K Sakiev, A Bakirov
0945h ASI06305L Phanerozoic geodynamics of the South Tian-Shan: M Leonov
1030h ASI06306L Accretionary orogens of the central Asian orogenic belt and growth of the continental crust from Neoprotozoic to recent: Nd isotopic evidence: B Jahn
1100h ASI06307L Geochronology of the high-grade metamorphic complexes in the eastern Central Asia Orogenic Belt: E Salnikova, I Kozakov, A Kotov, V Kovach, S Velikoslavinsky
1115h ASI06308L The Jabus, Khanka and Bureya blocks; a contiguous crustal entity accreted to the Central Asian Orogenic Belt in the Early Jurassic?: S Wilde, F Wu, G Zhao, E Sklyarov
1130h ASI06309L A study of the Late Paleozoic olistostrome tectonics in the northern Xinjiang, Central Asian belt: L Shu, B Wang, W Zhu, J Charvet, M Faure
1145h ASI06310L Lithospheric framework and tectonic evolution of Southern Central Asian orogenic province: Geological and seismic evidence of the transect from S. Altay Mt. to Tarim Basin, NW China: J Li
1400h ASI06311L Tectonic evolution and continental growth in Altai orogen, China: Constrained by geochronology and Nd isotopic mapping of intrusions: T Wang, Y Teng, D Hong, B Jahn, K Victor P., B Han
1430h ASI06312L Accretionary tectonics of Kazakhstan: Main features and principles of reconstruction: D Alexeev, K Degtyarev
1445h ASI06313L Palaeospearing complexes of the Ural-Mongolian fold-nappe belt: A Didenko
1500h ASI06314L Tectonics of NE China during Late Paleozoic-Mesozoic: Y Liu, W Jin, C Wang, X Zhang, Z Ma, J Zhou, Q Wen, G Han
1515h ASI06315L Accretion and collision processes in the Late Variscan North Pamirs – Kunlun ophiolite suture: I Pospelov, Q Bian
1600h ASI06316L Metallogeny and geodynamic setting of ore deposits in the Central Asian Örogenic Belt (CAOB): R Sellmann, R Armstrong, A Dolgopolova, A Yakubchuk, D Konopelko, R Creaser, R Morelli, X Zhang, C Chen
1630h ASI06317L The tectonic evolution of the latest Paleozoic mafic-ultramafic rocks from Beishan, Gansu Province, and implications for the crust-mantle interaction of the CAOB: Z Guo, Z Zhao, C Liu
1645h ASI06318L Paleozoic to early Triassic reconstruction of North Xinjiang, Chinese Central Asia: W Xiao, B Windley
1700h ASI06319L Lessons from the accretionary orogen of southern Alaska for the central Asian orogenic belt: T Kusky
ASI06320P Fragments of Archean tectonic structures in the Ural-Mongolian belt (invited paper): R Cherkasov
ASI06321P Ore deposits as indicators paleo-geodynamic environment: R Djencuravera, I Afitmatov, O Sadyrov
ASI06322P Origin and early stages of development of Paleosian ocean: W Bush, A Didenko, S Samygin, T Kheraskova
ASI06323P SHRIMP U-Pb zircon dating of the Heilongjiang blueschist complex, NE China and its tectonic implications: J Zhou, X Zhang, S Wilde, Z Ma, W Jin, Y Liu
ASI06324P Uplifting of the Huanan-Uplift in the northeastern Heilongjiang, China: Z Ma, Y Liu, G Han, Q Wen, X Sun, L Wu
ASI06325P Mesozoic fault structure in the NE China: W Jin, Y Liu, X Zhang, J Zhou, P Zheng, Q Wen, G Han
ASI06326P Correlation of the Neoproterozoic events at the Siberian margin of the Paleo-Asian ocean: New structural evidences from the Tonkiiy Mys peninsula, the North Baikal area: A Razumovskiy, E Khain, A Fedotova
ASI06327P Plate tectonic reconstructions of the Central Asian Orogenic Belt: C Wilhem, C Hochard, G Stampfli
ASI06328P Protolith and metamorphic ages of the proterozoic sedimentary sequences along the northern margin of the North China Craton: F Wang, F Chen, P Peng, M Zhai
ASI06329P Stable isotope compositions of the Saidu and Sarekoubu gold deposits in southern Altai, Xinjiang, China: J Xu, L Shan, R Ding, G Zhang, X Wei

Friday 0800h
BGB-01 General contributions to biogeoecology
0800h BGB01301L Can thermodynamics help us to understand the role of life in the Earth system and its evolution?: A Kleidon
0830h BGB01302L Extreme accumulation of nucleotides in hydrothermal pore systems: A solution for the concentration problem of the origin of life?: P Baaske, F Weinert, S Dühr, K Lemke, M Russell, D Braun
0845h BGB01303L Microbial colonization of various habitable niches during alteration of oceanic crust: M Ivarsson
0900h BGB01304L The influence of coals and source rocks on biological processes within the deep subsurface: A Vieth, A Sachse, B Horsfield
0915h BGB01305L The effect of vegetation type and snow depth on annual CO$_2$ fluxes in a high arctic tundra region: E Morgan, E Cooper, B Elberling

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium's oral presentations.
0930h BGB01306L Trace element dynamics during long-term decay of forest litters: C Brun
0945h BGB01307L Evolution of coccolithophores: Tiny algae tell big tales: J Henderiks, R Rickaby
1030h BGB01308L Molecular palaeobiology: Biominerisation: G Wörheide
1100h BGB01309L Abundant reticulate mats and intricate vertical structures discovered in cyanobacterial communities in Lake Pavilion, British Columbia: R Shepard
1115h BGB01310L Rare earth elements in stromatolites and associated detrital carbonates from the Bitter Springs Formation, Amadeus Basin: J Moulds, M Corkeron, G Webb
1130h BGB01311L The impact of bioturbation on seacape evolution: H Bjarte
BGB01312P Biospheric self-organization: D Schwartzman
BGB01313P Conditions of aragonite preservation in the recent sediment of a karstic marine lake: S Lojen, I Sondi, M Juracic
BGB01314P Examination of relationship between biodiversity and geochemical distribution in Daikoku Island, Hokkaido: R Takahashi, T Tachi, M Ohara, H Matsueda, S Mawatari, T Yoshida, H Takahashi, Y Kobayashi, P Gautam
BGB01315P Influence of hydrological conditions on hydrochemical processes and microbial community of peatlands: C Auterives, M Davranche, N Bougon, L Aquilina
BGB01316P Jena-GLOBE: A thermodynamic modelling approach to biotic effects in the Earth system: A Kleidon, S Arens, K Bohn, B Corina, R Pavlick, B Reu, S Richter, S Schymanski, K Sickel
BGB01317P Mineralogical and physico-chemical features of some Mesozoic clays/muds used outdoor for healing purposes and their applicability on SPA Centers: M Rebelo, F Rocha, E Silva
BGB01318P The effect of organic carbon species on the microbial products of dissimilatory iron reduction: E Salas, W Berelson, S Lund, K Neelson
BGB01319P Natural selection of organic molecules in pre-biotic evolution: H Nakazawa, Y Furukawa, S Ohara, M Oba, T Kakegawa, T Sekine

Friday 0830h
EGC-01 General contributions to environmental geochemistry – Part 2
0830h EGC01310L Groundwater geochemistry in the Oxrjordur area, NE Iceland: H Kristmannsdóttir, V Klemmenson
0900h EGC01312L Monitored natural attenuation as a remediation tool for heavy metal contamination from an abandoned gold mine area, Kolar Gold Fields, Karnataka, India: K Aradhi, R Kurakaluru, N Nyasavaula, K Pradip
0915h EGC01313L Heavy metals in soils of Angren-Almalik mining industrial area: Distribution, forms, bioavailability, and their impacts on nematode and microbial biomass: N Shukurov, W Wilcke, M Kersten, Y Steinberger, S Pen-Mouratov, R Talipov
0930h EGC01314L Mobilisation of metals from natural and processed black shale: U Lavergne, M Astron, B Bergback
0945h EGC01315L Mercury contamination of soils in vicinity of historical mining area: M Hoj dová, T Navratil, J Rohovec, V Penizek
1030h EGC01316L Elemental geochemistry in Verlorenvlei, South Africa: S Das, J Routh, A Roychoudhury
1045h EGC01317L Use of geochemical barriers for environment restoration: N Maximovich
1100h EGC01318L Representative sampling in the geo-sciences – how well are we coping? Introducing the theory of Sampling (Pierre Gy): K Esbenso
1115h EGC01319L The biogeochemical instrument for assessment of sustainability of biosphere: V Dolin
1145h EGC01321L Trace metals, sulphate and sulphur isotopes in small boreal streams: The importance of landscape type: L Björkvald, H Laudon, B Hans, C Mörth
1400h EGC01322L Evaluation of the bioavailability of potentially harmful elements in urban soils through ammonium acetate-EDTA extraction: A case study in the Campania region: S Albanese
1415h EGC01323L Characterization of industrial pollution in the Sinos River Valley with geochemical and remote sensing techniques: S Rolim, M De Oliveira
1430h EGC01324L Contamination history and sedimentation in the Oslotjord: A Lepland, E Alve, G Breedveld
1445h EGC01325L Formation and geochemistry of limnic sediments in permanently stratified, iron-rich lakes: S Dietz, A Seebach, K Knoeller, D Lessmann
1500h EGC01326L Ecogeochemical sedimentology: New scientific direction of geoeological investigation of Arctic shelf: G Ivanov
1515h EGC01327L Analysis of the relationship between chemistry composition and stable isotope signals in coastal sediments: a biogeochemistry study to assess the environmental impact: R Di Leonardo, A Bellanca, A Cundy, S Vizzini, R Neri, A Mazzola
1600h EGC01328L Rare earth elements of Aeolian deposits in northern China and their implications for the provenance of dust storms: X Yang
1630h EGC01330L Adsorption and mobility of platinum group-elements in surficial soils and sediment: A Sako, A Roychoudhury N.
1645h EGC01331L Contamination of groundwater due to solid waste disposal in the southeastern part of the Pune city, India: G Wagh, M Sayed, V Gaikwad
1700h EGC01332L Heavy metal contamination of foods by refuse dumpsites in Awka, South Eastern Nigeria: J Ndika
1715h EGC01333L The geo-ecological conditions of the development of the Öleny Ruchey apatite-nepheline
field (Khibiny): I Pletnikova, A Shamshin, Y Shumilov, N Kiseleva

Friday 0800h
EID-07 Geophysical evidence for mantle heterogeneity
0800h EID07301L Dynamics of large-scale lower mantle structure elucidated through computational models, plate evolution, and mineral physics: D Bower, E Tan, D Sun, M Gurnis, D Helmerger
0830h EID07302L Superdomes and Plumes: D Helmerger
0900h EID07303L Impact of the Large Low Shear Velocity Provinces in the deep mantle on long-term mantle dynamics: M Beuchert, Y Podladchikov, N Simon, T Torreski
0930h EID07304L Models of thermo-chemical convection: which ingredients are needed to fit probabilistic tomography?: F Deschamps, P Tackley
1000h EID07305L Exploring the role of subducted crust and residue in explaining mantle heterogeneity using numerical simulations: P Tackley, T Nakagawa, F Deschamps, J Connolly
1030h EID07306L Fine scale heterogeneity in the earth’s crust and mantle: H Thybo
1100h EID07307L On upper mantle heterogeneity and anisotropy as mapped by inversion of global surface wave data.: A Khan
1130h EID07308L The electrical anisotropy of the continental lithosphere: Methods of analysis and results for southern Africa: A Jones, M Miensopust, X Garcia, R Evans, P Cole, T Ngwisanyi, D Hutchins, S Fourie, S Evans, A Mountford, W Pettit, M SAMTEX
EID07309P Fine scale heterogeneity in the earth’s mantle – observation and interpretation: H Thybo
EID07310P Isotopic characteristics coupled crust-mantle heterogeneities: Time and depth thier generation: B Blyuman
EID07311P Revealed main driving geotectonic mechanism of the initial stage of geological history of the Earth and nature of its transformations on the following geological history: B Kisly

Friday 0830h
EIL-04 The continental lithosphere from geophysical and geochemical data
0830h EIL04301L New data on the structure of the Archaean complex in the kola superdeep borehole (SG-3) section: F Gorbatshevich, F Mitrofanov, Y Yakovlev, A Yakovleva, P Skuf’in
0845h EIL04302L Delamination of eclogitized lower crust: Control on the crust-mantle boundary in the central Fennoscandian shield: I Kukkonen, M Kuusisto, M Lehtonen, P Peltonen
0900h EIL04303L Moho topography and local isostatic compensation: A review: D Eaton, K Vasudevan, F Cook
0930h EIL04304L Joint inversion of receiver functions, surface wave dispersion and magnetotelluric data: M Moorkamp, A Jones, S Lebedev, S Fishwick, E Roux
1030h EIL04305L Observations of the electrical Moho: A Jones
1100h EIL04306L Lithospheric Foundering: Constraints from the Sierra Nevada EarthScope Project (SNEP): T Owens, H Gilbert, G Zandt, C Jones
1130h EIL04307L Teleseismic studies of the Superior craton, eastern Canada: F Darbyshire
EIL04308P How the crust meets the mantle: Lithoprobe perspectives on the Moho and crust-mantle transition: F Cook, D White, A Jones, D Eaton, J Hall, R Clowes
EIL04309P A new 3D combined geophysical model of the Barents Sea and is implications: L Marello, J Ebbing
EIL04310P Petrological crust-mantle boundary vs. seismic Moho in the central Fennoscandian Shield: constraints from collocated wide-angle and near-vertical seismic profiles: E Kozlovskaya, T Janik, P Heikkenen
EIL04311P Images of the Black Sea lithosphere from local seismic tomography and reinterpretation of the DSS data: T Yegorova, V Gobarenko, E Baranova
EIL04312P 3D crustal S-velocity model for the western part of Mediterranean region: M Chourak
EIL04313P An attempt to infer the anelastic attenuation on the Romanian territory from thermal models for the lithosphere: V Dobrica, M Tumanian
EIL04314P Seismically constrained thermal and rheological models for the Intra-Carpathian area (Romania): C Demetrescu, M Tumanian
EIL04315P Geodynamics of the SE Carpathians by integrated geophysical investigations at regional scale: V Mocanu
EIL04316P Study of crust in Khorasan region in the north eastern Iran using earthquake data inversion: M Abd Etdal, M Gheitanchi
EIL04317P S-wave velocity structure estimated by the microtremor survey method: Z Ling, P Xu
EIL04318P The cratonic lithospheres beneath the Chinese continent: M An, M Feng, T Fan
EIL04319P Lithosphere thickness and rheology of China and their effects on Tibetan geodynamics: Y Shi, J Cao, M An, H Zhang
EIL04320P Structure of Earth’s crust and upper mantle, inland subduction and its coupling effects on the Dabie orogenetic belt and the Tancheng-Lujiau fault zone: J Teng, Y Yan, G Wang, X Xiong, Y Zhang
EIL04321P Deep Lithospheric structures in geodynamical evolution of South Tien-Shan: I Sidorova

Friday 0830h
EIL-06 Seismic anisotropy and deformation of the crust and mantle
0830h EIL06301L A new model to explain seismic anisotropy of the upper mantle from SKS studies: A Jones, M Hamilton
0845h EIL06302L Melt geometry and distribution from observations of seismic anisotropy: J Kendall
0915h E106303L Anisotropy of elastic properties of rocks, anisotropic wave fields and rhythm of lithospheric tectonic layering: V Il’chenko

0918h E106304L Distribution of seismic anisotropy beneath central Italy and geodynamic implications for Northern Apennines: S Salimbeni, V Levin, S Pondrelli, L Margheriti, J Park

0921h E106305L Seismic anisotropy analysis in the Victoria Land region (Antarctica): S Salimbeni, S Pondrelli, S Danesi, A Morelli


0927h E106307L Strong lateral changes in seismic anisotropy across a subduction arc system: Observations and models: S Greve, M Savage

0930h E106308L Deformation of the coupled crust, mantle lithosphere, and mantle during delamination: Insights from geodynamic modelling: R Pyklywec, O Gogus

1030h E106309L Depth localized shear wave splitting from SKS and P receiver functions: Method and results: L Vinnik, I Aleshin, S Kiselev, G Kosarev, L Makeyeva

1100h E106310L Depth constraints on the origin of anisotropy from surface wave analysis: H Pedersen, M Brunet, V Maupin

1115h E106311L Mapping seismic anisotropy of mantle lithosphere: Bohemian Massif (central Europe) as Variscan assembly of micro-plates: J Plomerova, V Babuska, L Vecsey

1130h E106312L Seismic 3D velocity modelling of the crust in southern and central Finland – indications of seismic anisotropy: T Hyvönen, T Tiira, A Korja, K Komminaho, P Heikkinnen

1145h E106313L Teleseismic observations from the Baltic Shield lithosphere beneath Sweden: T Eken, R Roberts, H Shomali, R Bodvarsson, J Plomerova, V Babuska

1400h E106314L Seismic anisotropy of the crust and mantle under Iceland: I Bjarnason

1415h E106315L Subduction-related deformation beneath Indonesia from shear-wave splitting: J Wooley, J Hammond, S Kaneshima

1430h E106316L Parameters of seismic anisotropy within the Cascadia subduction zone megathrust: A Nikulin, V Levin, J Park

1445h E106317L Shear wave splitting versus faults and stress field in the Val d’Agrì (southern Italy) analysed with automatic procedures: M Pastori, D Piccinini, L Zaccarelli, L Valeroso, F Bianco, L Margheriti

1448h E106318L Interface between mantle flow and slab geometry from seismic anisotropy: The Tyrhenian Sea-Calabrian arc subduction system, (Italy): P Baccheschi, L Margheriti, M Steckler

1451h E106319L Deformation, metamatism and seismic anisotropy of the lithospheric mantle above the Kerguelen plume (Indian Ocean): J Bascou, G Delpech, A Vauchez, B Moine, J Cottin, G Barruol

1454h E106320L Deformation of the Indian lithosphere: New insights from seismic anisotropy and receiver functions: M Heintz, V Kumar, K Priestley, S Rai

1457h E106321L Insights into the plume-upper mantle interaction from the geophysical anomalies in the central pacific: S Karato

E106322P The geodeformation pulsation centers of lithosphere at the global Earth crust degassing problem and in the seismic activity genesiae: V Rudakov

Friday 0830h

GEP-18 Compaction processes – porosity, permeability and rock properties evolution in sedimentary basins – Tribute to Knut Bjørlykke

0830h GEP18301L Mechanical compaction of sandstones during deep burial on geological and production time-scales: Q Fisher, J Segura, S Skachkov

0900h GEP18302L Facies controls on the distribution of diagenesis in fluvial-deltaic deposits: E Hammer, M Mork, A Næss

0915h GEP18303L Application of fluid inclusions in petroleum explorations on triassic formations in Syria: A Bilal

0930h GEP18304L Fluid-inclusion-derived temperatures in quartz cemented sandstones in different petroleum reservoirs – a comparative analysis: K Jarmolowicz-Szulc

0945h GEP18305L The influence of compaction and cementation on reservoir properties of the Early Cretaceous Weglowka Sandstone (Sub-Silesian Unit, Outer Carpathians, Poland): G Stanczak

1030h GEP18306L Controls on evolution of porosity and permeability in lower Tertiary Wilcox Sandstones from 200 to 6700 meters of burial: S Dutton, R Loucks

1100h GEP18307L Mechanical compaction of silt-clay mixtures: Simulating porosity and permeability development in mudstones during burial: N Mondol, M Fawad, J Jahren, K Bjørlykke

1115h GEP18308L Predicting deformation properties of argillaceous sediments for geomechanical analyses: L Grande, F Cuisiat

1130h GEP18309L Early grain-coating formation in modern eolian sands: Implications for prediction of deep porosity: J Ajdukiewicz, W Esch, P Rumelhart, S Franks, C Van Dijik, W Carrigan, R Larese

1445h GEP18310L Quartz cementation and chemical compaction of mudstones and shales: J Jahren, C Peltonen, O Marcusen, N Mondol, K Bjørlykke

GEP18311P Pressure-solution in carbonate – An experimental study: D Croizé, K Bjørlykke, F Renard, D Dysthe, J Jahren

GEP18312P Pore space structure and genesis in oil-gas-bearing reservoir thickness of south-eastern west Siberia platform (Tomsk region): A Ezhoa

GEP18313P Siliceous oil reservoirs: E Karnyushina

GEP18314P DiaGenesis and reservoir qualities of the sandstones in SE part of the Lublin Carboniferous basin: A Kożłowska

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.
GEP18315P Problem of low-ohm reservoirs in view of rock transformation in ancient water-oil contact zones: N Nedolivko

GEP18316P Revealing zones of elevated reservoir properties zones in low-permeable reservoirs in oil fields of Timan-Pechora and Yenisei-Khatanga regional depression: B Ochirov

GEP18317P Diagenesis of Middle Jurassic turbidite sandstones in NE Iran: M Poursoltani, M Gibling

GEP18318P Pore structure of low permeability sand rock and fluid flowing characteristics: W Sun

GEP18319P Porosity and hydraulic conductivity evolution under high compaction regime in sandstone: M Takahashi

GEP18320P Interaction of hydrothermal mineral forming solutions with bituminiferous and coaly rocks and directly with oil in connection with origin of some types of oil fields and ore deposits (on experimental data): V Balitsky, L Balitskaya, T Bublikova, G Bondarenko

GEP18321P Water consumption± function in diagenetic stage and its geological significance: S Zhang

GEP18322P Microcrystalline authigenic quartz in fine-grained mudstones of the northern near sea: B Thyberg, J Jahren, K Bjørlykke, T Winje

Friday 0800h

GEP-19 Carbonate reservoirs and plays

0800h GEP19301L Sequence stratigraphy and reservoir development in the Lower Triassic Kangan Formation, northern part of the Persian Gulf: M Peyravi, Y Lasemi

0830h GEP19302L Sequence Stratigraphy of Dastk formation at Agahar#1, West Agahar#1 and Naura#1 boreholes in Subcostal Fars (Zagros Basin) Iran: H Mohseni, M Khoshnoodkya, M Hajian, B Rafiei

0900h GEP19303L Fracture controlled hydrothermal dolomitisation – From outcrop to full 3-D reservoir facies model: S Soltvedt, I Sharp, P Gillespie, P Soerhaug, J Rivenas

0930h GEP19304L Microfacies analysis, depositional environmental, sequence stratigraphy and biostratigraphy of Asmari Formation in Haftkel Oil Field (SW Iran): H Mohseni, Z Naderpour, S Khodabakhsh, K Haidari

0945h GEP19305L Sequence stratigraphy, microfacies and sedimentary environments of the Asmari Formation in Dezful Embayment (southwest Iran): Z Karimi

Mossadegh

1030h GEP19306L Impact of dynamic diagenesis on carbonate reservoirs in foreland fold- and thrust belts: R Swennen

1100h GEP19307L Effectivization of exploration in the Northern portion of the Pre-Caspian Basin: M Afanasjeva

1115h GEP19308L Oil- and gas-bearing potential of the Zechstein Main Dolomite in Western Poland based on new data: W Ryszard, K Maciej, J Krzysztof, S Miroslaw, M Zbigniew

1130h GEP19309L 3D variation on lithological, matrix and fracture characteristics of hydrothermal dolomites: the Daly Glacier case study (British Columbia, Canada): R Swennen, J Lukasik, D Hunt, I Sharp

GEP19310P Carbonate reservoirs in the western flank of the Caspian basin: HC accumulations and petroleum resources: U Mekhdiev, E Aliyeva

GEP19311P Depositional environments and facies distribution in a regressive Cenomanian-Turonian reservoir: M Al-Dabbas

GEP19312P Reservoir characterisation and facies modelling of heterogeneous fractured carbonate reservoirs in the Middle East: P Soerhaug, I Sharp, J Embry, D Hunt, J Rivenas, T Sperre, S Soltvedt, C Otterle

GEP19313P Depositional and diagenetic controls on the reservoir properties of warm-water carbonates of the Asmari Formation (Oligocene-Miocene), Iran: J Nielsen, N Hanken, T Torgersen, T Švána, A Boyce

GEP19314P Lithologic-facial and tectonic peculiarities of forming the petroleum-bearing Riphean-Vendian-Lower Cambrian deposits of Siberian platform: I Kushmar, V Senemov

GEP19315P The geology of Upper Devonian reef deposits, Timan-Pechora Province: I Petrova, R Khipeli, I Kerusov, A Metshersky, E Akhmedov

GEP19316P Atlas of carbonate reservoir rocks of the oil and gas fields of the East-European and Siberian platforms: K Braitsev, A Dmitrievsky, R Bochkov

GEP19317P Formation of the Devonian and Carboniferous reef structures in the Kama-Kinel rift system: A Safin, E Sitdikova, M Kruglov

GEP19318P Lower Carboniferous carbonate platform of the Dnieper-Donets basin, Ukraine: Facies distribution and reservoir characterization: S Vakarchuk

GEP19319P Geological and Geomorphological elements in the karst systems: Precambrian acungui group, southern Brazil: A Bahniuk, N Matsuda, J Reis Neto, A Franca, R Jahnert, L Jusches

GEP19320P Hydrothermal dolomitization from Precambrian carbonates in the southern of Brazil: An Example of reservoir characteristics: N Matsuda, A Franca, R Jahnert, J Reis Neto, A Rebelo, A Bahniuk

GEP19321P Carbonate strait deposits: An undrilled play from the Miocene of the northern Mediterranean region?: M Talbot, C Thra, C Baird, K Soltveit, N Jensen, I Gunnanlefe, G Selen

GEP19322P Spatial variation in lithology and poroper characteristics in hydrothermal dolomites: The Ranero dolomite case study (Cantabrian Mountains, N-Spain): R Swennen, J Dewit, m Huymans, D Hunt

GEP19323P Study of fractures and vugs in carbonate reservoirs: Prof.Bagrintseva

GEP19324P Fractures and fracture development in Ordovician carbonate reservoir rocks of Block 4, Tahe oil field, Tarim Basin, China: J Zhong, Y Li, X Yuan, A Ahmatjan, Y Gao

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Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.
Friday 0830h
GHZ-13 Geohazards – a tribute to Kaare Høeg

0830h Introduction
0845h GHZ13301L Kaare Høeg in the United States: R Whitman
0930h GHZ13302L Bayesian method: A natural tool for processing geotechnical information: W Tang
1030h GHZ13303L An early warning system for risk mitigation at Lake Sarez in Tajikistan: E DiBiagio
1100h GHZ13304L Managing landslides in the Panama Canal: J Duncan
1130h GHZ13305L Effects of long term groundwater change on basement design: H St John
1400h GHZ13306L Safeguarding Venice from high tides: M Jamiołkowski
1440h GHZ13307L Perceived problems of shallow gas beneath a North sea production platform: T Tjelta
1500h GHZ13308L Internal erosion, the ageing of water retaining structures: Failures, incidents and preventive maintenance: J Fry
1600h GHZ13309L How the glaciers formed a challenging playground for prominent geotechnical engineers: A Elverhi
1630h GHZ13310L The changing pattern of landslide risk in Europe: F Nadim

Friday 0815h
GSM-01 General contributions to geomorphology

0815h GSM01301L Structural control on drainage pattern of choral river basin, indore and khargone districts, Madhya Pradesh, India: Application of remote sensing techniques: R Raghuwanshi
0830h GSM01302L Study of drainage basin asymmetry and erosion processes relationship in the northern Apennines through a new representation of two geomorphic indices: D Baioni
0845h GSM01303L Multi-scale analysis of surface roughness: C Grohmann, C Riccomini, M Smith
0900h GSM01304L Application of mathematical morphology of landscape for studying thermokarst processes: V Kapralova
0915h GSM01305L An improvement in the measure of recent geomorphic changes using digital photogrammetry: G Alberto, C Javier, D Jorge, M Emilio, P José Luis, O Cesar, B Viola Maria, D José Ramón
0930h GSM01306L Historical, photogrammetric and geomechanical analysis to evaluate Sea Cliff Retreat (Debei Ritc, Slovenia): S Furlani, S Devoto, F Cuochi
0945h GSM01307L Using ground penetrating radar to determine accretion rates in the Trinity River delta, Texas: M Slattery, L Todd, J Phillips
1030h GSM01308L Modelling the multiannual soil erosion: S Ricucci, R Salvini, P Fantozzi
1045h GSM01309L Modeling soil thickness to enhance slope stability analysis at catchment scale: S Segoni, S Catani

1100h GSM01310L Suspended sediment dynamics in a atlantic forest gravel bed river: F Oliveira
1115h GSM01311L Geological factors affecting erosion rate in nature trails, northern Finland: K Lehtinen
1130h GSM01312L Bar migration and barrier formation across seasonal estuaries: A Orme
1145h GSM01313L Giant sand waves in the Hola glacial trench, Vesterålen, north Norway: R Boe, V Bellec, P Mortensen, M Dolan, L Buhl-Mortensen
1400h GSM01314L Paleogeomorphological evolution and geomorphological characterization of the middle basin of Abaucan river, Tinogasta, Catamarca, Argentina: A Cacciabue, A Niz, J Oviedo, M Savio, C Lamas
1415h GSM01315L A Tertiary paleodrainage net in southeastern South America: M Iriondo
1430h GSM01316L Late Pliocene-Middle Pleistocene huge rock avalanches in the Argentinean Central Andes: its implications: S Moreiras
1445h GSM01317L Deep seated gravitational slope deformation in the low Biéno area (Southern Italy) and its influence on the hydraulic vulnerability of the valley: V Simeone, A Guerricchio, A Biasi, R Lacertosa, D Manicarella
1500h GSM01318L Morphotectonic evolution of the southern Apennines: new geomorphological, stratigraphical, structural and thermochronometric constraints: A Ascione, A Cinque, S Mazzoli, A Pignalosa, E Valente, M Zattin
1515h GSM01319L Interdisciplinary approach for geomorphological study of an high slope instability area in the northern Apennines mountains: A Ciulli, L Disperati, E Guastaldi, A Rindinella, S Virdis

GSM01320P The geomorphological and tectonic evolution of uplifted coasts: An example from the Tyrrenian North Calabria (Italy): F Filocamo, P Romano

GSM01321P A particular canyon excavated in the large Uruguay River channel (South America): D Kröbling, M Iriondo

GSM01322P An approach to landslide dams risk evaluation in Umbria (Central Italy): G Felicioni, A Boscherini, C Cencetti, P Tacconi, P De Rosa, I Marchesini, A Fredduzzi

GSM01323P Badlands in the Central Corinth graben: L Stamatopoulos

GSM01324P Contribution to geomorphological mapping of debris flows by using GIS applications: E Reynard, D Theler

GSM01325P Evidence of glacial erosion as control on mountain height: V Pedersen, D Egholm, S Nielsen

GSM01326P Geologic evolution of the Danube Valley on Romania territory: E Petru, D Balteanu

GSM01327P Geomorphological analysis of the riverbed and floodplain evolution using Lidar (Lith DETection and Ranging) techniques: F Falaschi, N Del Seppia, N Coscini

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.

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**Friday 0830h**

**GTN-05** Future trends in 3D and 4D modeling in geosciences – Part 2

0830h GTN05307L Three-dimensional modelling of the Nuussuaq Basin, West Greenland: E Sorensen, A Pedersen, H Jepsen

0845h GTN05308L 3D model of geological structure of the territory in the course of state geological mapping at scale 1:1,000,000 (Sheet M-38 (Volgograd)): O Zastrozhnova, A Zastrozhnov, D Ivanov

0900h GTN05309L Processing exploration data using integrated 3D modeling; Application to exploration surveys: J Royer, J Samara, A Cheilletz

0915h GTN05310L Automated 3D geological modelling of mineral deposits: S Ellefmo, E Ludvigsen, S Sandøy

0930h GTN05311L Eigensurface analysis: A new semianalogue-based method for analyzing and modeling 3D shape data: N MacLeod

0945h GTN05312L How implicit 3D geometrical modelling helps modelling fluid flow?: G Courrioux, P Renard, A Borghi, A Guillon

1030h GTN05313L 3D forward trishear fault propagation folding modeling: N Cardozo

1045h GTN05314L 3D restoration: Achievements and perspectives: M Titeux, P Durand-Riard, G Caumont

1100h GTN05315L Stochastic modelling of deep marine deposits by mimicking sedimentary processes: P Abrahamsen, B Fjellvoll, R Hauge, J Howell, T Aas

1115h GTN05316L Stratigraphic forward modelling for the past, present and future: C Griffiths

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**Friday 0830h**

**HPF-01** General contributions to paleontology and historical geology – Part 1

0830h HPF01301L Biostratigraphic scheme for Mesoproterozoic sedimentary successions: M Sharma

0845h HPF01302L Acritarchs and late Neoproterozoic correlations: S Willman

0900h HPF01303L Neoproterozoic microfossil assemblages from the east European platform passive margin – searching for a lower Ediacaran global marker: V Sergeev, N Vorob’eva, A Knoll

0915h HPF01304L Precambrian microfossils biostratigraphic usefulness and proterohorizons: V Sergeev

0930h HPF01305L Exceptionally preserved Mesoproterozoic fossil biotas from eastern Siberia: M Pawlowska, N Butterfield

0945h HPF01306L Oncolite-like carbonate concretions from the Gaoyuzhuang Formation (ca.1.6Ga) of the North China Platform: Gas bubble origin in a methane-rich Mesoproterozoic ocean?: X Shi, G Jiang, J Liu, C Zhang, Y Wang

1030h HPF01307L Life in the Precambrian Sea: A window to global biotic events from India: V Rai

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*Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium's oral presentations.*
1045h HPF01308L Striped radiolarian chert: evidence for superimposed cyclicity in the Earth System: A Matsuoka, T Nikaido, T Onoue, L Zamoras

1100h HPF01309L Jurassic and Cretaceous radiolarian biostratigraphy of the Pichakun and Hasawina basins: S Gorican, C Robin, F Guillocheau, F Béchennec, J Marcoux, P Razin, P De Wever

1115h HPF01310L First evidence of Cordevolian (lower Carnian) radiolarians at the base of the Upper Antalya Nappes, Turkey: A Hungerbühler, P Moix, J Guex, G Stampfli, J Marcoux

1130h HPF01311L First evidence of Upper Triassic (Carnian) radiolarians from the Moni Melange in Cyprus: A Hungerbühler, P Moix, J Guex, G Stampfli

1145h HPF01312L Palaeoecological meaning of cryptospore vs. miospore relative abundance and diversity across the Silurian-Devonian boundary: Implications for the understanding of the terrestrialization process: A Spina, M Vecoli

1400h HPF01313L Devonian sea level fluctuations on northern Gondwana: B Videt, E Dujoncuqyo, J Rubino, F Guillocheau, C Robin, K Boumendjel, F Paris

1415h HPF01314L The gross environmental phenomenon of the classical Pragian stage (hot lowstand): J Hladil, L Slavik, P Schnabl, L Koptikova, J Frana, F Vacek, O Babek

1430h HPF01315L Molluscs, molecules, morphology: Just how real are paleontological morphospecies?: J Crampton, S Hills, M Fenwick, M Morgan-Richards, B Marshall, A Beu, A Hendy

1445h HPF01316L Biodiversity through time: Some considerations: P De Wever, L O’Dogherty, S Gorican

1500h HPF01317L Integrated stratigraphy of the Carboniferous-Permian boundary section at Xikou, Zhen’an County, Shaanxi Province, China: X Wang, H Zhang, L Wang, S Zhang, G Xia

1515h HPF01318L A thick Serpukhovian boundstone section in the south Urals and Carboniferous platform-slope bioconstructions of Paleothys: P Kabanov, S Beavington-Penney, G Della Porta

1600h HPF01319L Paleogeographic reconstructions of carboniferous sedimentation of Kyrgyz Tien-Shan: A Djenchuraeva, A Neyevin

1615h HPF01320L Permian fusulinid fauna of Peri-Gondwanan and Peri-Tethyan affinities in eas-central Iran: S Areffard

1630h HPF01321L New conodont species Chiosella omulyovika Kopylova, Klets sp. nov. from Lower Triassic of northeastern Russia: A Kopylova, T Klets

1645h HPF01322L The Triassic stage boundaries of northeastern Asia (Russia): A Konstantinov, T Klets

1700h HPF01323L Biofacies and microfacies of a Norian – Rhaetian patch reef complex in the Howz-e-Khan member of the Nayband Formation, east of Central Iran: F Amirihasankhani, A Ariyai

1715h HPF01324L A preliminary report on a new Late Jurassic marine vertebrate Lagerstätte from Svalbard, Norway: J Hurum, P Druekenmiller, E Knutsen, H Nakrem

Friday 0830h
HPF-13 Major events in the evolution of marine biota

0830h HPF13301L Changes in oceanographic condition and carbon cycle in the PC/C boundary: Y Kunimitsu, Y Sampei, A Kano

0845h HPF13302L Early molluscan evolution and the systematic position of the sachiidls: J Vinther

0900h HPF13303L Patterns of biomere extinctions and sea level in the inner detrital belt of the western U.S.: P Myrow, J Taylor, R Ripperdan, J Miller, R Ethington

0915h HPF13304L The Great Ordovician Biodiversification Event (GOBE): From islands to impacts: D Harper

0930h HPF13305L Trilobite faunas across the late Ordovician mass extinction event in the Yangtze Block: Z Zhou, W Yuan, N Han, Z Zhou

0945h HPF13306L Response of major organism groups to global environmental perturbations through the Ordovician-Silurian transition in south China: J Rong, X Chen, Z Zhou, J Chen

1030h HPF13307L Silurian bioevents and sea-level change in North Gondwana: The response of pelagic faunas from the Carnic Alps (Austria): C Histon, A Ferretti, H Schoenlaub

1045h HPF13308L Late Devonian stratigraphy and global events at Bouloungour Reservoir (Yugur Autonomous Region, Xinjiang, China): T Suttner, X Chen, R Mawson, J Talent, J Fryda, D Mathieson

1100h HPF13309L Trilobite evolution and extinction across the Frasnian/Famennian mass extinction event: K McNamara

1115h HPF13310L The protracted Permo-Triassic crisis and multi-phase extinction around the Permian-Triassic boundary: H Yin, Q Fong, X Lai, A Baud, J Tong

1130h HPF13311L Restoration of marine ecosystems following the Permian-Triassic mass extinction in Gondwanan interior sea: Z Chen, D Haig, A Mory

1145h HPF13312L Early Mesozoic Crinoid evolution revolution: T Baumiller, M Salamon, P Gorzelak

1400h HPF13313L The Toarcian Oceanic Anoxic Event and biodiversity fluctuation in Early Jurassic ammonoid assemblage in East Asia: K Nakada, A Matsuoka

1415h HPF13314L Correlation of main inorganicam records: G López

1430h HPF13315L K/T Calcareous nanofossil mass extinction in the Tethyan realm: M Melinte-Dobrinescu, M Lamolda

1445h HPF13316L Cretaceous-Tertiary (K/T) boundary evidence in the classical Karst area: S Bolchi, R Riccaboni, G Burelli

1500h HPF13317L Past and present chemosynthetic bivalves (family Solemyidae) inhabiting deep-sea cold-vent and reducing environments in the Neogene of the Mediterranean basin: M Taviani, L Angeletti, A Ceregato

HPF13318P Discovery of protoconites sp. from the lower Cambrian yanjiahe formation of the three Gorges area, south China: J Guo, Y Li, J Han, X Zhang

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.
**HPF13319P** Devonian-Silurian chitinozoans from trombetas group: **H Cuevas De Azevedo-Soares**

**HPF13321P** Benthic and planktonic foraminiferal assemblages, responses to Paleocene/Eocene boundary warming (EEFM) in northern of Tunisia (Kharrouba section): **L Zili, D Zaghbibi-Turki**

**HPF13322P** First ammonite fauna from the Raskoh arc, Balochistan, Pakistan and its tectonostatigraphic significance: **R Siddiqui, M Haq, F Khan**

**HPF13323P** Palynology of the mesozoic succession of the kala chitta range pakistan: **A Butt, K Qureshi, R Khan, S Ghazi**

**HPF13324P** The last global extinction in the deep sea – pulsed contraction of benthic foraminiferal populations prior to disappearance: **B Hayward, S Kawagata, H Grenfell, A Sabaa, T O'Neill**

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**Friday 0800h**

**HPS-12 New developments in stratigraphic classification**

0800h **Introduction**

0815h **HPS12301L** Lithostratigraphy stays with the times: **B Pratt**

0830h **HPS12302L** Integrating the concepts of lithostratigraphy and lithofacies in applied geological mapping: **J Schokker, H Weerts, W Westerhof**

0845h **HPS12303L** Biostratigraphy: past evolution and future challenges: **J Thierry**

0900h **HPS12304L** Magnetostratigraphy – its future: Possibilities, pitfalls and applications: **C Langereis, W Krijgsman, G Muttoni, M Menning**

0915h **HPS12305L** Carbon isotope stratigraphy – potential, problems and questions: **H Weisert**

0930h **HPS12306L** Cyclostratigraphy – from orbital cycles to geologic time scale: **A Strasser, F Hilgen, P Heckel**

1030h **HPS12307L** The newest geological time period: The Ediacaran: **J Zalasiewicz**

1045h **HPS12308L** The Hirnantian stage and its GSSP: A record of rapid global climate change: **S Finney**

1100h **HPS12309L** Report of the first restudy of a Global Stratotype Section and Point: the base of the Silurian System: **M Melchin, J Rong, S Williams, T Koren', J Verniers**

1115h **HPS12310L** The Pliensbachian GSSP definition (Mesozoic, Lower Jurassic): a case study: **J Thierry**

1130h **HPS12311L** K/T boundary and Danian GSSP: **M Cita, I Premoli Silva**

1400h **HPS12312L** Progress in chronostratigraphy: The case history of the Miocene-Pliocene boundary and Zanclean GSSP: **F Hilgen**

1415h **HPS12313L** Creation and application of a 3D synthetic stratigraphic and seismic model using systematic stratigraphic principles and realistic rock properties: **C Lerch, T Thompson, G Apps, I Hayes, M Leishman, M Gardner, D Stoughton, M Glinsky, C White**

1430h **HPS12314L** Sequence stratigraphy of mudrocks: Example of the Barnett Shale, north Texas, USA: **P Singh, R Slatt, W Coffey**


1600h **HPS12317L** Depositional processes, erosional episodes and stratal geometries recorded in the deep and steep slopes of the Atlantic Ocean: A marine geologist's perspective: **M Cita, F Jadoul, F Berra, R Freeman-Linde**

1615h **HPS12318L** Depositional processes and erosional episodes on the Bahama Escarpment: **R Freeman-Lynne**

1630h **HPS12319L** Quaternary sequence stratigraphy of the Adriatic sea: the role of sediment advection and short-term sediment flux fluctuations: **i Trincardi, A Cattaneo, D Ridente, G Verdicchio**

1645h **HPS12320L** Carbonate turbidites and debris flows: Sea-level variations versus tectonic processes: **J Reijmer, P Palmieri, M Floquet, S Kerkvliet, R Groen**

**HPS12321P** Sequence stratigraphy provides a basic framework to conceptual models used to interpret depositional systems: The key to simplification of the complex terminology of sequence stratigraphy is to use simple depositional models: **C Kendall**

**HPS12322P** Sequence stratigraphy: Interpretation versus classification: **N Christie-Blick, A Madof, S Pekar**

**HPS12323P** Stratial stacking patterns and key bounding surfaces: The basis for a standard system for sequence stratigraphic analysis: **O Catuneau, H Posamentier**

**HPS12324P** Two approaches to sequence stratigraphic classification: **A Embry, E Johannessen, D Owen, B Beauchamp**

**HPS12325P** A simplified scheme to classify the surfaces and geometries of sequence stratigraphy: The accommodation succession method: **J Neil, V Abreu**

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**Friday 0830h**

**HYH-02 Groundwater resources and management – Part 3**

0830h **HYH02333L** Identifying new water resources in Emilia-Romagna Region, Italy: **P Severi, L Bonzi**

0845h **HYH02334L** Groundwater vulnerability map of Poland as useful tool for risk assessment to groundwater resources: **S Witczak, R Duda, J Karlikowska, A Zurek**

0900h **HYH02335L** Characterization of bank filtration aquifer using sediment sequential analysis and water quality: **K Ko, H Suk, G Chae**

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*Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.*
0930h HYHO2337L Groundwater modelling of the effects of the tunnel construction through Hallandsåsen: F Christensen, L Markussen, M Gynnemo, U Johansson
0945h HYHO2338L Geological factors causing the heterogeneity of permeability in fractured Sandstone-Mudrock rock masses: X Jiang, L Wan, X Wang, S Liang

Friday 0830h
IEI-01 General contributions to geoscience information
0830h IEI01301L New ways of dissemination and delivery of geoscience information to society: R Tomas
0900h IEI01302L Developing a national 3D geoscience knowledge infrastructure: A case study in the United Kingdom: H Andrew
0915h IEI01303L GeoSciML catalogue and vocabulary registries: J Serrano, S Richard, A Téllez Arenas
0930h IEI01304L The Virtual Seismic Atlas Project – sharing the interpretation of seismic data: R Butler, B McvCaffrey, B McCaffrey, G Stuart, S Clayton
0945h IEI01305L OneGeology: Making Geological Map Data for the Earth Accessible: I Jackson, J Broome, H Thorleifson
1030h IEI01306L No-one said it would be easy (with apologies to Sheryl Crow): I Jackson
1100h IEI01307L OneGeology contribution to the INSPIRE European directive implementation: J Serrano, F Robida
1115h IEI01308L Information Management: A key factor for successful geoscience: J Broome
1145h IEI01309L Delivering our science to the intended user: Wrap-up of session IEI-01 on general contributions to geoscience information: H Thorleifson
IEI01310P Lithothque: Rapid information system on world’s ore deposits based on uniformly assembled miniaturized rock/ore sets: P Laznicka
IEI01311P GeoInformatics as an integrating discipline in the geosciences: A Kulinovich, M Yakymchuk
IEI01312P Expert system for interpretation of geologic maps: G Jaines, R Hastings, A Sylvester, C Henry
IEI01313P PANGAEA – an information system for georeferenced data from Earth system research: M Diepenbroek, H Grobe, E Gurvich, U Schindler
IEI01314P Information system of Mineral deposits with concession in Slovenia: K Hibremik
IEI01315P CAD resources for resolving structural geology problems: C Carneiro, A Carvalho

0945h IES04305L Local ambassadors for a global network: Residents’ commitment in geopark development: C Eckhardt
1030h IES04306L How to transport the message – Geoparks as communicator for geosciences, examples from the Geopark Bergstrasse-Odenwald (Germany): J Weber
1045h IES04307L How to build a successful Geopark (almost) from nothing?: C Neto de Carvalho, A Jacinto, R André, R Tomás Marques, C Preguiça, P Martins, E Chambino
1100h IES04308L An example of geotourist promotion in a glacial and karstic sensitive area: E Reynard, S Martin
1115h IES04309L Actions for the constitution of a Geopark in Central Patagonia: M Haller
1130h IES04310L Geoparks of Albania: L Moisiu, A Avxhi, A Serjani
1145h IES04311L Fruska gora-potential Geopark: T Sijacki, S Lajos
1400h IES04312L Role of geoscience in enhancing the aesthetic value of geopark and tourism: A Akhtar
1415h IES04313L The Ba Be National Park – A promising member of the UNESCO’s World Geoparks Network: T Tran
1430h IES04314L Geotourism for sustainable development: A Mogessie, A Asrat, M Demissie
1445h IES04315L Tourism geoscience and evaluation of geoasset. A case study of Perlis State Park, Malaysia: M Kaddari
1500h IES04316L Geoparks and geotourism in Tanzania: Promotion and management challenges: F Mangasini
1515h IES04317L Discovery trails to early Earth – A traveller’s guide to the east Pilbara region: M Van Kranendonk, J Johnston
1600h IES04318L Geotouristic attraction in the Podlasi region, northeastern Poland: M Stefaniuk, D Ilcewicz-Stefaniuk, T Slomka
1615h IES04319L Raising through the Dunajec River Gorge without the future trans-bordering PIENINY Geopark, Northern Carpathians: J Golonka, M Krobicki
1630h IES04320L Geotourism of salt diapirs in Iran: S Jafari
1645h IES04321L Perspectives of geotourism development in especially protected areas of Kazakhstan: Y Kazakova
1700h IES04322L The stone in small ethnic architecture as a geotourist site: A study of local geology and petrographic characterization of applied material: E Welc
IES04323P The hollowed stone park: an arch in granitic rock – NE Brazil: G Mariano
IES04324P A proposed geopark in the Pantanal and Serra da Bodoquena, South America: A Sales, P Boggiani, C Delphim, M Lima, G Martins
IES04325P Ancient salt mining in the Bohnia region as a pattern of geothermal preservation and attractive
geotouristic object: D IICewicz-Stefaniuk, M Stefaniuk, T Tobola

IES04326P Architecture of hoodoos in Azarbaijan and Kordestan provinces: A Bani Masoud, M Esfahaninejad

IES04327P Arouca Geopark: Geotourists are arriving!: D Rocha, A Sa, J Brilha, J Gutierrez-Marco, M Cachao, H Couto, J Medina, I Rabano, M Valero


IES04329P Geopark: The best way to protect our geological patrimony central high Atlas and Anti-Atlas mountains, Morocco: E Errami, H Ouanaimi, A Seghedhi, N Ennih

IES04330P Geotouristic sites in Portugal: M Rodrigues

IES04331P Itoigawa geopark: The first geopark candidate in Japan: K Takenouchi, Y Ibaragi, H Miyajima, M Ohkouchi, A Matsuoka

IES04332P Self-guided field excursions to orodvician ocean floor processes in the Copper Coast Geopark of County Waterford, Ireland: C Breheny, K Moore

IES04333P The geotouristic field-trip across the major attractions of Europe: Important element of the university studies, specialization geoturism: M Doktor, J Golonka

IES04334P North Estonian Klint: One landform two geoparks?: K Täht-Kok

IES04335P The volcanic Géopark of Ifrane and Azrou: A natural museum: F Kharbouch, B Bouab, A Malaki, M Zahraoui, M El Wartiti

Friday 0800h

MAG-02 Mathematical and statistical modelling of physical and chemical processes in the Earth sciences

0800h MAG02301L Studies in stoichiometry with compositional data analysis techniques: V Pawlowsky-Glahn, E Grunsky, B Kjarsgaard, J Egozcue, S Thio-Henestrosa

0830h MAG02302L Linear and complementary processional processes in geology: J Egozcue, V Pawlowsky-Glahn

0845h MAG02303L From source to sink: towards a statistical-numerical model of sedimant generation and evolution: H von Eynatten, R Tolosana-Delgado

0900h MAG02304L A nonparametric approach to forecast a geophysical system of Poisson type: C Ho

0915h MAG02305L Outlier detection and consistent b-scatter plot smoothing for robust variogram estimation: J Ortiz, O Leuangthong

0930h MAG02306L Handling uncertainty in numerical models of sedimentary deposition: A Stochastic Approach: S Clark, A Bruaset, T Løseth

MAG02307P A statistical global baseline of the petrographic composition of sediments vs. grain size: R Tolosana-Delgado, H von Eynatten

MAG02308P A statistical method linking geological and historical eruption time-series: applications to the hazard assessment of active volcanoes: A Mendoza-Rosas, S De la Cruz-Reyna

MAG02309P Conditional probability applied to the definition of limestone geochemical facies: A new Methodological Approach: J Meixedo, A Meira Castro

MAG02310P Examining element mobility of a Hydrothermal wall-rock alteration system using mathematical invariant of mass change, with an example of application: Y Zhou, Y Zhou

MAG02311P Inverse modeling of unsaturated flow parameters – What can we learn from GPR tomography?: N Kittered, M Farmani, H Keers

MAG02312P On some possible effects of Korteweg stress in magmatic systems: L Valentini, K Moore

MAG02313P Statistical evidences of cyclic changes in volcanic gas chemistry composition by inverse modelling: A Bucciante, F Tassi, O Vaselli, G Bocchi

MAG02314P Comparison analysis of tin-bearing ore-magmatic systems of Russian far east by pattern recognition method: N Gorelikova, I Chizhova, V Gonevchuk

Friday 0830h

MPC-02 Geochronology of metamorphic reactions and deformation in high-grade orogenic settings

0830h MPC02301L U-Pb dating of high-grade metamorphism: D Rubatto, J Herrmann

0900h MPC02302L Linking U-Pb isotopes with fabric development and orogenesis: Case studies from Fjordland, New Zealand: J Scott, M Palin, A Cooper

0915h MPC02303L Two collisional events recorded in the Jining complex, north China craton: evidence from SHRIMP U-Pb zircon geochronology: G Zhao, S Wilde, J Zhang, S Li, X Li

0930h MPC02304L Constraining high-grade metamorphism in Archean and Proterozoic terranes: Q Crowley, S Noble, R Key

1030h MPC02305L Dating lower crustal creep with deformed zircon: S Reddy, D Moser, N Timms, W Davis

1045h MPC02306L Tectonic setting of the 2.0 Ga usagaran eclogites, Tanzania: R Brick, A Collins, M Hand, P Mombru

1100h MPC02307L Tracking the P-T-T path of metamorphism using Hf isotopes in zircon and baddeleyite in high-pressure mafic granulate dykes: U Söderlund, F Hellström, S Kamo

1115h MPC02308L Direct dating of multi-phase high-grade structures using zircon geochronology of polymetamorphic migmatitic orthogneisses: J Andersson, C Moller, L Johansson, U Söderlund

1130h MPC02309L U-Pb ID-TIMS dating of polymetamorphic rocks: The critical role of zircons in metamorphosed mafic rocks: S Kamo, T Krogh

1400h MPC02310L High-pressure rocks of West Norway: The Rb-Sr record of fluid-induced eclogite and amphibolite facies metamorphic reactions: J Glodny, H Austrheim, A Kuehn

1430h MPC02311L Recording of the eclogitic caledonian metamorphism in zoned garnets: Example

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of Lu-Hf dating in Våråldsneset (Norway): C MARTIN, S DUCHENE, B LUAIS, P GONCALVES, E DELOULE

14:45h MPC02312L Metamorphic evolution of sapphireine granulites from Rogaland, Norway: Evidence from in-situ La-ICPMS geochronology of mineral reactions combined with calculated P-T-x phase diagrams: L Elsaesser, K DRUPEPPEL, A Gerdes

1500h MPC02313L Using structural analysis and thermochronology to depict the geodynamic evolution of Ribeira Belt: T BENTO DOS SANTOS, P Fonseca, J Munhá, C Tassinari, C Dias Neto

MPC02314P Differential exhumation and fluid-rock interaction in the Cycadlike blueschist belt, Greece: Constraints from Rb-Sr geochronology: J GLODY, U Ring, T Will

MPC02315P Timing of metamorphism in the Baia de Aries sequence (Apuseni Mts., Romania): C BALICA, D Mihai, C Gelu, B Ioan

MPC02316P Titanite versus zircon U-Pb-systematics; tracing multiple episodes of metamorphism and intrusion in Precambrian rocks of the west trons basement complex: P MYHRE, F Corfu

MPC02317P U-Pb dating and geodynamic implications of post-Vibracin magmatism in the Brianconnais Domain (Ligurian Alps, Italy): S SENO, G Dallagiovanna, L Gaggero, M Tiepolo, M maino

MPC02318P Zircon U-Pb dating of mylonitization: The post-pan-African — pre karoo Macalogue shear zone, NE Mozambique: B Bingen, J Henderson

Friday 0830h

PM06 Layered intrusions and the evolution of magma chambers: A tribute to J. Richard Wilson

0830h MPI06301L Evidence for compositionally zoned magma during crystallisation of some Norwegian layered intrusions: J WILSON

0900h MPI06302L Cryptic layering in the Sokndal lobe of the Bjerkreim-Sokndal Intrusion, Rogaland Anorthosite Province, SW Norway: B ROBINS, F Chiodoni

0915h MPI06303L Assimilation and fractional crystallization constraints in the upper zone of Hasvik Layered intrusion, Norway: Sr-Crystal isotope stratigraphy in plagioclase: B HEREDIA, C Tegner, T Waight

0930h MPI06304L Anomalous internal zonation of small mafic dykes of the Åland-Åboland dyke swarm, SW Finland: Indication of an unknown process of magma differentiation?: S CHISTYAKOVA, R LATYPO

0945h MPI06305L Layered titanium-bearing intrusions of the Ukrainian Shield: O REMEZOVA

1030h MPI06306L Syn-magmatic granophytic-rich pipes in the Skæggerak Intrusion, East Greenland: Implications for cross-cumulus melt transfer during layered gabbro formation: R LARSEN B.

1100h MPI06307L Controls on the formation of Pb-Au mineralization in the Skæggerak intrusion, east Greenland: R KEAYS, C Tegner, P Momme, T Nielsen

1130h MPI06308L Isotopic stratigraphy and magnetic evolution of the fiskeraneset Archean anorthosite complex: K SOUDERS, P Sylvester, J Myers

1600h MPI06309L The PXI gabbro-pyroxenite intrusion, a case study for tectonically induced vertical magmatic layering: J ALLIBON, B Fussy, E Lewin, M Cosca

1615h MPI06310L The Shiant Isles Main sill, NW Scotland: An origin from a single pulse of magma?: R LATYPOV, S Chistyakova

1630h MPI06311L Genesis of the Lac Tio massive ilmenite deposit (Havre-Saint-Pierre anorthosite, Quebec): Insight from the neighbouring Grader layered intrusion: B CHARIER, O Bolle, J Duchesne, J Vander Auwera

1645h MPI06312L Differentiation of the ferrobasaltic Sept Ises Layered Intrusion (Quebec, Canada): O NAMUR, B Charlier, M Higgins, J Vander Auwera

1700h MPI06313L Towards a new model for PGE mineralization in layered intrusions: Critical observations of PGE distribution in the Stillwater Complex, Montana, USA: R KEAYS, J Findlay

MPI06314P Geochemistry of principal silicate phases of the chilas mafic-ultramafic complex, Kohistan Island Arc, northern Pakistan: R KHAN, M Jan, M Khan

MPI06315P Petro- and geochemical composition of initial magmas of low-alkali ultramafic-mafic assemblations and their evolution trend: B BLYKIN, T Petrova, T balykin

MPI06316P Formation and diapreric ascent of anorthositic crystal mushes from the “boundary layer” of crystallizing basaltic magmas: T HOSHIDE, M Obata

MPI06317P New results from the mafic complex in the Finero area: F HINGER, U Kloezi, C Steuber, R Kleinschrodt

MPI06318P Stratigraphic variation of platinum-group elements in the jurassic layered mafic Dufek Intrusion, Antarctica: R HANEKAMP, L Viereck-Goette

MPI06319P Isotopic evidence of interaction of the basic melt with crustal rocks in course of Kivakka layered pluton (N-Karelia) formation: N REYYAKO, Y Bychkova, Y Kostilsyn

MPI06320P Evolution of oxygen fugacity with crystallization in the Bjerkreim-Sokndal layered intrusion (Rogaland, Norway): J DUCHESNE, B Charlier, J Vander Auwera

MPI06321P The layered series of the Skæggerak intrusion and its liquid line of descent: P THY, C Tegner, J Jakobsen, C Lesher

MPI06322P Compaction, crystal mush and differentiation processes of the Skæggerak intrusion: C Tegner, P Thy, M Holness, J Jakobsen, C Lesher

Friday 0830h

MPM-07 Mineral spectroscopy

0830h MPM07301L Preliminary geochemical study of vanadium ions in kaolinites (Charentes Basin, France): D DJORDJEVIC, P Premovic, D Dulanovic, T Allard

0845h MPM07302L Geochemistry of Zn and Ni in the SÄz-2 smectite from Arizona (USA): Preliminary results: M STANKOVIC, P Premovic

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0900h MPM07303L Mean lifetime of aluminum radiation centers in quartz and limitations of EPR dating method: D Koshchug, S Vyatkin, S Makhotin
0915h MPM07304L Spectroscopic and optical features of some pink and brown diamonds: A Brajkovic, V Rolandi
0930h MPM07305L Tetrahedrally coordinated Fe3+ in silicate glasses: A Raman spectroscopy study: B Cochain, D Neuville, O Pinet, P Richet
0945h MPM07306L A multifrequency EMR and magnetic characterization of synthetic powdered hematite: C Carbone, F Di Benedetto, S Claudio, M Pietro, P Luca, S Lorenzo, L Gabriella
MPM07307P Tracing the extent of radiation damage in monazite combining XRD and Raman spectroscopy: N Tomasic, V Bermanec, A Cajovic, T Biljan
MPM07308P Application of Combined SEM, EDS and Raman spectroscopy (SEM-SCA) to study fine-scale lamellae in eclogitic apatites: J Chen, L Zeng, B Alan
MPM07310P Crystal chemistry of carbonates from Stari trg mine, Trepcˇa, Kosovo: Z Zigovecki Gobac, V Zebec, V Bermanec

Friday 0830h
MRC-08 Geological construction materials – Part 2
0830h MRC08319L Classification of dimension stone deposits: V Shekov
0845h MRC08320L Requirements for selection of quality decorative and dimensional stones: A typical analysis: V Dharmapuram
0900h MRC08321L Requirements for selecting suitable stone types for different applications in different climates: B Schouenborg, R Krug
0915h MRC08322L Performance and selection criteria for roofing slate: K Aasly, L Alnaes
0930h MRC08323L Natural radioactivity in ornamental stones of Iberia: D Pereira, C Gonzalez Neila, A Pereira, I Neves
0945h MRC08324L High speed drilling without hammering of marble and granite blocks: A Georgiadis, A Abramov, K Yury, L Persson, P Lekomtsev, T Ivanova, A Persson
1030h MRC08325L Recognition of a “World Heritage Stone Resource”: A proposal: B Cooper
1045h MRC08326L Assessment of coal waste dump material as an alternative for primary raw materials in the former coal mining district of the campine area (N-Belgium): R Dreesen, P Nielsen, B Laenen, J Matthijs
1100h MRC08327L Boulderscaping in Finland: An interesting aesthetic and practical marginal use of rock material: T Errola
1115h MRC08328L Characteristics and the environmental acceptability of the natural stone quarrying waste material: H Luodes, N Luodes, S Aatos, P Heikkinen
1400h MRC08329L Re-use of high value natural stones: A strategic and technological approach: A Georgiadis, J Schröder
1415h MRC08330L Rehabilitation of dimension stone quarries and effective utilization of quarried materials: M Raisinen, P Härma, S Vuori, H Luodes, A Torppa
1430h MRC08331L Geology and geochemistry of the sedimentary-hosted lead-zinc-vanadium-barite prospects in Yemen: M Mattash
1445h MRC08332L Petrographic and geochemical indicators of neutral post hercynian hydrothermal alteration in the Valence Basin substratum: Y Rutherford, C Lerouge, C Ramboz, Y Le Nindre, M Lescanne

Friday 0830h
MRD-03 Recent developments on marine mineral deposits
0830h MRD03301L Marine minerals: A new perspective: P Ronas
0900h MRD03302L Estimate of metal fluxes into the hydrogenetic ferromanganese crusts of the northwestern Pacific Ocean: A Usui
0915h MRD03303L Geophysical and geological methods for exploration and evaluation of deep-sea cobalt-rich ferromanganese crusts: A case study in the south pacific: A Usui
0930h MRD03304L Exploration for Seafloor Massive Sulphides (SMS) – the Neptune Minerals approach: J Baulch, S McDonald, J Feenan
0945h MRD03305L Fe-Mn crust physical properties essential to resource development: J Hein, R Dunham, P Halbach
1030h MRD03306L Seafloor massive sulphides: Lessons from land: S Scott
1045h MRD03307L Deep sea metalliferous sediments: A medium for reconstructing hydrothermal inputs and locating areas of mineralization: E Gurvich
1100h MRD03308L An ITRAX geochemical study of ferromanganeseous sediments from the southwestern pacific ocean: D Kronan, G Rothwell, J Croude
1115h MRD03309L New important discoveries of hydrothermal deposits at the Mid-Atlantic Ridge (geological setting, composition and resources): G Cherkashov, V Beltenec, I Rozhdestvenskaya, T Stepanova, V Ivanov
1130h MRD03310L Detailed survey of the hydrothermally active brothers volcano by an autonomous underwater vehicle: C De Ronde, R Embley, E Baker, D Yoerger, B Davy, J Resing, R Dziak, S Merle, S Walker, K Nakamura
1145h MRD03311L The SuSu Knolls hydrothermal field, Eastern Manus Basin, Papua New Guinea: An actively forming submarine high sulfidation copper-gold system: C Yeats, R Binns, J Parr
1400h MRD03312L The future of mining seafloor massive sulphides: S Scott
1430h MRD03313L Opportunities and challenges in polymetallic sulfide mining in the Kermadec Ridge and back arc basins: A Malahoff

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1445h MRD03314L Synopsis and prospects for development of cobalt-rich Fe-Mn crusts: J Hein, R Dunham, A Koschinisky
1600h Panel Discussion, The Future of Marine Mining
MRD03315P A ferromanganese nodule resource within New Zealand's EEZ: I Graham, I Wright
MRD03316P Chemical signature of submarine hydrothermal deposits collected from the Hatoma Koll in southern Okinawa trough backarc basin: H Nakano
MRD03318P Ferromanganese nodules in the Gulf of Cadiz: The hydrocarbon seepages and the Mediterranean Outflow Water undercurrent as mineralization controls: F González, I Somoza, R Lunar, J Martínez-Frias, J Martín Rubí, T Torres, J Ortiz, R León, T Medialdea, V Díaz del Río
MRD03319P Submarine hydrogeology of the Western Zanzibar Basin: F Ruden
MRD03320P The mineragenic map of the ocean: S Andrei, I Anikeeva, S Petukhov, E Popova, A Chernomordik
MRD03321P Hydrothermal plumes and fluids at 13°N, Mid-Atlantic ridge: S Sudarikov

Friday 0830h
MRD-09 Au-Ag telluride-selenide deposits
0830h MRD09301L Invisible gold in bismuth-sulfosalts and -tellurides: correlation trends and structural modularity: C Ciobanu, N Cook, A Pring, J Bruggler, L Danushevskiy
0900h MRD09302L Tellurium-bearing mineralization in Paleozoic black smokers: S Maslennikova, V Maslennikov, R Herrington
0915h MRD09303L Low-sulfidation type Au-Ag epithermal system at Osilo, Sardinia, Italy: S Fadda, M Fiori, S Grillo
0945h MRD09304L Au-Ag selenide-telluride deposits in Finland: K Kojonen
0945h MRD09305L A new occurrence of cavelleite-like phases and Te-polybasite from gold-bearing veins in metamorphic rocks of the cycladic blueschist unit, Greece: P Voudouris, P Spy
1045h MRD09306L Tellurides and selenides of gold and gold-silver deposits of Uzbekistan (Western Tien-Shan): Geochemistry, nanomeralogy and application as indicator minerals in exploration: R Koneev, N Cook, C Ciobanu, Y Mun, R Khalmatov, A Jukov
1100h MRD09307L Indium mineralization in epithermal Au-Ag-Cu-Mn-Te-(Se-Bi-Sn-Mo-In) vein-type deposits of the Kawazu (Rendaiji) mine, Shizuoka Prefecture, Japan: M Shimizu, M Shimizu, T Furuhashi, A Harada, N Cook
1115h MRD09308L Experimental determination of phase relations and thermodynamic properties of Ag-Au-Te system minerals using EMF method: E Echmaeva, E Osadchii
MRD09309P Geology and geochemistry of the albite-granite dykes hosted telluride-type gold deposit in brittle-ductile shear zone of altay, in Xinjiang province, China: H Xiao, Y Dong, L Chen, H Wu
MRD09310P Epithermal, gold-silver deposit Kyzylawusay (Uzbekistan): Micromineralogy of ores and vertical zoning: R Khalmatov
MRD09311P Tellurides and selenides of the Myutenbay gold ore deposits (Muruntau, Uzbekistan): Composition, distribution and zoning: Y Mun
MRD09312P Metasomatism and Ore formation at the Samarchuk Gold-telluride deposit, Kyzylawusay orefield, Uzbekistan: A Umurov
MRD09313P Epithermal gold occurrences in the lakes district of the main Ethiopian rift and tendaho (Afar rift): Discovery of a metallogenic province: M Fiori, S Pretti, S Tadesse, P Valera

Friday 0800h
OSP-06 Causes of oxic-anoxic changes in Cretaceous marine and non-marine environments and their implications for Earth systems
0800h OSP06301L Will we return to Cretaceous climatic conditions?: W Hay
0830h OSP06302L Cretaceous paleoceanography and paleoclimate of the tropical proto-north atlantic: Long-term development versus short-term events: O Friedreich, J Érbacher, A Bornemann, P Hardas, K Moriya, R Norris, P Wilson
0900h OSP06303L Overview of Cretaceous Oceanic Red Beds (CORBs): A window on global oceanic climate change: C Wang, X Hu, Y Huang, S Robert, W Michael
0915h OSP06304L Recent advances in the study of cretaceous OAE's: B Sageman, R Barclay, J McElwain
0930h OSP06305L Mid-Cretaceous cyclic oscillations in oxygenation: The story told by benthic foraminifera and XRD data (Ultrahelvetic, Austria): I Wendler, J Wendler, S Neuber, M Wagereich
0945h OSP06306L Aptian-Albian cyclic oceanic red beds in the ODIP Hole 1049C, North Atlantic: X Hu
1030h OSP06307L Cretaceous climatic oscillations in the Bering area (Alaska and Koryak Upland): Isotope and palaeontological evidences: Y Zakharov, Y Shigeta, A Popov, T Velivetskaya, T Afanaseyva
1045h OSP06308L Oxic-anoxic changes in Cretaceous marine deposits of the Romanian Carpathians: M Melinte-Dobresniuc, T Brustur, S Szobotka
1100h OSP06309L Lacustrine Cretaceous sequence and climate signal revealed by the Chinese scientific drilling project-SK-I: X Wan, C Wang, P Wang
1115h OSP06310L From OAE 2 anoxia to oxic CORBs in the Cenomanian to Santonian of the Ultrahelvetic (Austria): M Wagereich, S Neuber
1130h OSP06311L A sedimentological and isotopic evaluation of a high latitude early Cretaceous succession from Svalbard: G Price, E Nunn
Friday 0830h
STP-01 General contributions to paleoseismology

0830h STP01301L Neotectonics in Norway – mechanisms and implications: O Olesen, H Bungum, J Dehls, C Lindholm, C Pascual, D Roberts

0900h STP01302L Paleoseismicity in an oceanic crust: A case study from the South Iceland transform zone: M Khodayar, S Björnsson, P Einarsson, H Franzson

0915h STP01303L Paleoseismological exploration of south-central Chilean lake sediments using reflection seismic profiling: J Moernaut, M De Batist, K Heirman, M Van Daele, M Pino, R Brümmer, R Urrutia

0930h STP01304L Archaeoseismological investigation of the ancient Ayla site in the city of Aqaba, Jordan: E Al-Tarazi

1030h STP01305L Holocene faulting versus complex gravitational failures, Yakutat microplate, Alaska: J McCalpin, F Gutierrez-Santolalla

1100h STP01306L Structure of a pseudotachylyte-bearing earthquake barrier exhumed from the middle crust: J Allen

1115h STP01307L Improving geo-hazards assessment along the south-caribbean transform margin though recent sedimentary and structural evolution: First steps, first results, perspectives: F Audemard, C Beck, M De Batist

1130h STP01308L Geological features of neotectonic deformation in Argentine pampas (intraplate): E Brunetto

1145h STP01309L Evidence of surface ruptures / fractures that are responding to the current stress field in the Dodoma area, Tanzania: A Macheyek, A Delvaux, M De Batist, A Mruma

STP01310P Earthquake recurrence times from seismicological and paleoseismic data: how to compare?: R Tatevossian

STP01311P Paleoseismology in Iran: R Sohbati, M Fattahi

STP01312P Paleoseismological significance of intraplate faults in northern Chile: J Cortés, G González

STP01313P Evidence of paleoseismosity from Chhotonagpur Gneissic Complex, India: A Chatterjee

STP01314P Landslide investigations at the Roman ruins of baelo claudia, southern Spain: C Gruetzner, K Reichert, T Fernandez-Steeper, D Mueller, P Silva Barroso, L Rodriguez

STP01315P Large-scale seismically-induced lacustrine fluidization structures in south-central Chile revealed by very-high resolution seismic profiling: J Moernaut, M De Batist, F Charlet, R Urrutia, R Brümmer, M Pino

STP01316P Late Quaternary reverse faulting in the southeastern coastal region of Korean peninsula: Eupcheon Fault: W Kee

STP01317P Hypothesis on the paleodynamic (paleoseismic) origin of the trevants (“Sandsteinkonkretionen”): M Ticleanu, A Pantea, A Constantin, N Ticleanu, R Nicolescu

Friday 0830h
STT-03 Accretionary orogens: Character and processes

0830h STT03301L Phanerozoic accretionary orogen of Japan: A template for describing Precambrian analogues: Y Isozaki
0900h STTO3302L Thermal equilibration in high pressure/low temperature rocks of fossil coastal accretionary prisms in Chile: A Willner, H Massonne, T Gerya, W Gorczyk, F Hervé

0915h STTO3303L Crustal growth along a long lived accretionary margin: Evidences from the proto-Andean batholiths of Peru: A Miskovic, U Schaltegger

0930h STTO3304L The case for crustal wedging in the assembly of the southern New England Appalachians: R Wintsch, J Aleinikoff, M Dorais, G Walsh, M Kunk

0945h STTO3305L Deposition, burial and uplift of Mesozoic nonmarine deposits in Korea: continental response to the western paleo-pacific subduction processes: K Egawa, T Choi, Y Lee

1030h STTO3306L How does an accreted island arc end up sandwiched between quartz-rich continental margin turbidites? lessons from the lachlan orogen of southeastern Australia: R Glen

1045h STTO3307L Late darrriwalian – early Caradocian felsic volcanism and coeval magmatizaton in a peri-Gondwanan island arc complex, newfoundland appalachians: B O’Brien, G Dunning

1100h STTO3308L Timing of syn-tectonic granites in the early Paleozoic Wuyishan fold belt (South China) with tectonic implications: D Jia, H Li, L Wu, F Deng

1115h STTO3309L Geochronological grouping of granitoids in relation to the 1.2 Ga Namaqua Orogeny, South Africa: Å Pettersson, D Cornell

1130h STTO3310L Seismic images of the Svecofennian accretionary orogen: A Korja, R Lahtinen, M Nironen, P Heikkinen

1145h STTO3311L From the canadian shield to north american subcontinent: M Campa-Uranga

STTO3312P Basin inversion and extensional magmatism by accretionary wedge deformation in Lake Van basin, Eastern Anatolia High Plateau (E-Turkey): T Mustafa, S Krastel, F Demirel-Schlueter, E Demirbako, C Ymren

STTO3314P Accretionary orogens around the Siberian craton: Evolution of the Patom fold and thrust belt: T de Boisgrollier, C Petit, M Fournier, P Leturmy, M Jolivet, J Ringenbach, V San’kov, S Anisimova, S Kovalenko

STTO3315P Interactions between tectonics and surface processes in Taiwan: Insights from sandbox experiments: C Lu, J Malaville, K Chang, Y Chan

STTO3316P Development of the middle crustal horizontal shear zone related to the formation of the median tectonic line in the mid-Cretaceous SW Japan arc: Strain analysis on the Cretaceous Ryoke metamorphic belt: T Okudaira, Y Beppu

STTO3317P Thermal cooling of Lake Van basin deep structure and crustal consolidation, Eastern Anatolia Accretionary Complex, (E-Turkey): T Mustafa, S Krastel, F Demirel-Schlueter, E Demirbako, C Ymren

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Friday 0830h
UNC-06 National delineation projects in progress

0830h UNC06301L Smooth sailing or choppy waters ahead?: Indonesia’s voyage towards a submission to the United Nations Commission on the Limits of the Continental Shelf: I Arsana, C Schofield

0900h UNC06302L A combined geological and geophysical model of the earth’s crust within the Mendeleev Ridge and its transition to adjacent shelves of the East-Siberian and Chukchi Seas, based on results of the “Arctic-2005” Expedition: V Poselov, L Poselova, V Kaminys, E Astafurova, V Butsenko, V Gilevsky

0930h UNC06303L Continental shelf project of the kingdom of Denmark – Area north of the Faroe Islands: M Heinesen, F Mork, B Kunoy, J Neish

1030h UNC06304L Crustal structure from the Lincoln Sea to the Lomonosov Ridge, Arctic Ocean: T Dahl-Jensen, H Jackson, D Chian, J Shimeld, G Oakey

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1100h **UNC06305L** Extension of the Continental Shelf around Greenland: Status after the first five years of planning and data acquisition: **C Marcussen**

1130h **UNC06306L** U.S. Efforts to Delineate its Extended Continental Shelf: **L Mayer, J Gardener, A Armstrong**

1400h **UNC06307L** Continental shelf survey of Japan: **S Tani**

1430h **UNC06308L** An overview of the Portuguese continental shelf extension project: Building scientific and technological competence through UNCLOS implementation: **M Abreu, N Lourenço, P Neves Coelho, T EMEPC**

1500h **UNC06309L** EXTRAPLAC: Status of the French continental shelf program: **W Roest, E Jarmache, T Extraplac**

**UNC06310P** Current results of a geological and geophysical study of the transition zone between the Lomonosov Ridge and the Siberian Shelf: **V Kaminsky, G Avetisov, V Poselov, V Palamarchuk, V Glebovsky, A Chernyh**

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Friday 8 August – Late Morning

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The following symposia begin in this session. Some symposia continue on the next day. Next day presentations may be found in the next day section.

Friday 1030h
MAG-03 Uncertainty in spatial prediction modeling: From natural risk to resources

1030h MAG03301L Application of ACE algorithm in investment decisions in selection of overseas exploration opportunities: R Mishra
1045h MAG03302L Spatial interpolation for magnetic intensity values using a new artificial neural network computing method: J Bandibas, S Takarada, K Sakaguchi
1100h MAG03303L Uncertainty in natural hazard mapping and its impact on risk assessment: C Chung
1115h MAG03304L GIS-Based landslide susceptibility mapping with validation and comparison of spatial prediction models at the basin scale: S Bai, J Wang, G Lu, M Kanevski, A Pozdnoukhov
1145h MAG03305L Direct variogram estimation using the variogram cloud: O Leuanthong, J Manchuk
1400h MAG03306L A spatial cross-validation strategy for interpreting predicted groundwater vulnerability to nitrate concentration in the Province of Milan, northern Italy: A Fabbi, A Cavallin, M Masetti, S Poli, S Sterlacchini, C Chung
1415h MAG03307L Evaluation of uncertainty in mineral resources prediction and assessment: R Zuo, Q Cheng, Q Xia
1430h MAG03308L High order geostatistics: Exploring spatial random fields and spatial cumulants for modelling complex, non-linear and non-Gaussian geological phenomena: R Dimitrakopoulos

MAG03309P VMS prospectivity mapping in Skellefte, northern Sweden: M Sadeghi, J Carranza

MAG03310P The effects of DEM resolution in landslide susceptibility modelling: A González Díez, J Remondo, J Cardenal Escarcena, E Mata, J Delgado García

Friday 1030h
MPM-10 Fluids and melts in the Earth’s mantle: From natural observation to HT-HP experiment

1030h MPM10301L Experimental model for alkaline chloride-rich diamond-forming liquids in the upper mantle: O Safonov, L Perchuk, Y Litvin
1100h MPM10302L Physico-chemical conditions of formation of mantle-derived diamond and its syngenetic inclusions by HPHT experimental evidence: Y Litvin
1115h MPM10303L The complexities of accessory minerals in the Catoca kimberlite as revealed by a LA-ICP-MS investigation: S Robles, M Watangua, L Isidoro, A Olimpio, S Galí, J Melgarejo

MPM10304P Liquid immiscibility between a P-bearing and a silicate-bearing carbonatite melts reflected by primary carbonatite melt inclusions in mantle xenoliths: T Guzmics, Z Zajacz, J Kodolányi, C Szabó

MPM10305P Diamond-bearing fluid composition estimation on the basis of the P-T-FO2 parameters obtained for kimberlite peridotitic and eclogitic parageneses: S Simakov

MPM10306P Comprehension syngenetic inclusions in carbonados: A Sukharev, M Martins, V Petrovsky, V Silaev, V Khitynin

MPM10307P The system garnet-clinopyroxene-H2O-CO2-KCl at 5 GPa and 1200-1300°C: V Butvina, O Safonov

MPM10308P Eclogitization of basalts, metamasomat and melting of eclogites: A Kostyuk, N Gorbachev, A Nekrasov

MPM10309P Water in natural olivine – determined by proton-proton scattering analysis and infrared spectroscopy: E Schmädicke, J Gose, P Reichart, G Dollinger

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.
Friday 8 August – Early Afternoon

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The following symposia begin in this session. Some symposia continue on the next day. Next day presentations may be found in the next day section.

Friday 1400h
BGB-03 Life of the early Earth

1400h BGB03301L Early archean metabolisms revealed by atmospheric processes: P Philippot
1430h BGB03302L Distinct pools of carbonaceous matter in the 3.5 Ga Dresser Formation, Pilbara, West Australia: M van Zuilen, C Thomazo, K Lepot, L Luais, P Philippot

1415h BGB03303L Evidence for a diverse microbial community within a hydrothermally-active volcanic caldera from the c. 3.48 Ga Dresser Formation of the Warrawoona Group, Pilbara Craton: M Van Kranendonk, P Philippot, S Bodorkos

1500h BGB03304L Oxygen isotope ratios in basalts and cherts from Barberton Mt. Land, South Africa: Implications for the Archean ocean: K Muehlenbachs, H Furnes, M de Wit

1515h BGB03305L Preservation of cell-like organic globules in the 2.72 Ga Tumbiana stromatolites: K Lepot, K Benzerara, G Brown, P Philippot

1600h BGB03306L Oceanic pillow lavas and hyaloclastites as habitats for microbial life through time – A review: N McLoughlin, H Furnes, K Muehlenbachs, H Staudigel, N Banerjee, M de Wit, M Van Kranendonk

1630h BGB03307L 3.5 Ga of glass bioturbation: Inferring microbial function from trace fossil morphology: H Staudigel, H Furnes, N McLoughlin, N Banerjee, L Connell, A Templeton

1645h BGB03308L Magnetite and carbonaceous matter in Akilia quartz-rich rock: Petrography, and paragenesis: A Lepland, M van Zuilen

1700h BGB03309L Sources and properties of carbon in Archean rocks: G Arrhenius, C Daraio, S Perez, L Rudee, A Lepland, M Rosing, M van Zuilen, M Whitehouse

BGB03310P The quaternary hypothesis of the origin of Life matter elements: A Askhabov

BGB03311P Diagenesis and hydrothermalism of Archean oceanic sediments from North-Pole Dome, N-W Australia (3.490 Ga): A window on early life environments: N Rividi, P Philippot, G Godard

BGB03312P Ecougeomorphological aspects of amazon turtle nesting areas in bananal island region, araguia river, Brazil: P Castro, P Ferreira Jr

Friday 1400h
EID-09 The dynamics of plumes

1400h EID09301L Dynamics of thermal plumes: Comparison of laboratory and numerical models: J Vatteeville, A Davaille, P van Keken

1430h EID09302L Plume head-lithosphere interactions in continents: Insights from new modelling approach based on realistic representation of the lithosphere: E Burov, L Guillou-Frottier, S Clocietingh

1500h EID09303L Statistically significant correlations between synthetic mantle plumes and tectonic models: L Bosch, T Becker, B Steinberger

1600h EID09304L The mantle discontinuities beneath hotspots: R Kind

1630h EID09305L Upper mantle plumes – hotspots or wetspots?: M Wilson

1700h EID09306L Plume-plate interaction and secondary volcanism at plumes associated with small-scale convection: M Ballmer, J van Hunen, I Garrett

EID09307P Plum tectonics as physical mechanism of neotectonic movements within Azov-Black Sea locale: V Viginsky

Friday 1400h
GEP-06 North Sea Chalk reservoirs. From regional understanding to reservoir level

1400h GEP06301L North Sea chalk exploration and production: The unanswered questions: M Thomas

1430h GEP06302L The Chalk in The Netherlands: Stratigraphic traps and regional seals: E Guasti, O Abbink, G Kees, L Kramers, H Verweij

1445h GEP06303L The nature of the top Hordaland unconformity: H Loseth, B Raulline

1600h GEP06305L Modelling of porosity distribution and uncertainty range in an undeveloped chalk reservoir: T Strand, G Iversen, T Laupretre, M Bruun

1615h GEP06306L Integrated approach for modelling Eldsfisk fracture potential: F Storli, G Tosi, F Salvini

1630h GEP06307L Petrophysical properties of mudstones based on burial trends from well logs and clay mineralogy: O Marcussen, B Thyberg, J Jahren, K Bjørlykke

1645h GEP06308L Detection of chemical processes affecting chalks mechanical strength with the use of different flooding brines at elevated temperatures: R Kornes, A Hiorth, M Madland

1700h GEP06309L Troll – challenges in stratigraphic modelling constrained on an extensive seismic dataset and more than 300 complex well paths: J Rivenas, C Pedersen, E Nysæter, J Dexter, H Eliaassen, J Gjengedal, J Lorentzen

GEP06310P Heavy mineral sorting as a tool to distinguish depositional characteristics of injected and in situ sands from their related injected sands in a Palaeogene submarine Canyon, Danish North sea: A Moatari kazerouni, H Friis, J Svendsen, R Weibel

Friday 1400h
GEP-13 Abiotic deep origin of hydrocarbons: Myth or reality?

1400h GEP13301L The modern theory of abiotic deep genesis of hydrocarbons: A history of the history: V Kutcherov
1430h GEP13302L How tectonically driven upward movement of deep abiotic hydrocarbons makes conventional oil and gas fields: A Kitchka
1445h GEP13303L High production of hydrogen and abiogenic hydrocarbons by serpentinitization of ultramafic rocks between 12°N and 40°N on the mid-Atlantic Ridge- Methane plumes and hot fluid geochemistry: J Charlou, J Donval, C Konn, Y Fouquet, P Jean-Baptiste
1500h GEP13304L Trassers of superdeep fluids in petrolierous reservoirs: A Lukin
1515h GEP13305L Deep origin of oil: Evidences from inorganic geochemistry of oil: K Ivanov, Y Fedorov, Y Erokhin, O Pogromskaya, Y Ronkin, I Plotnikova
1600h GEP13306L About the deep source of the hydrocarbon’s reduced systems and origin of the Romashkin oil field: R Gottikh, B Pisotskiy, I Plotnikova
1615h GEP13307L Quantification of the rate of methane production by serpentinitization: A Skelton, P Crill, F Argbe, B Whitmarsh, H Koyi
1630h GEP13308L Hydrocarbons in the Ilmaussaq magmatic intrusion, Greenland, exhibit both abiotic and biogenic signature: T Laier, H Nytoft
1645h GEP13309L About combination genesis of hydrocarbons in different regions of Glob (Case Lesser Caucasus and Arabian Plate): A Harutyunyan, S Grigoryan
1700h GEP13310L New models of oil/gas forming in light of unique data of the ultra deep wells: Y Galant
GEP13311P Fractured zone of the upper crust as a source of hydrocarbons entry: I Balanyuk, A Dmitrievsky, T Akivis
GEP13312P Hydrocarbons in the rift zones, evidence from Iceland and Israel: Y Galant, A Geptner, Y Pikovskii
GEP13313P Polygenesis of oil and gas: A Dmitrievsky
GEP13314P Precambrian crystalline basement of the Volgo-Kama anticline and the origin of oil fields: R Gottikh, R Muslimov, B Pisotskiy, I Plotnikova
GEP13315P Carbon in ancient serpentinite-hosted hydrothermal systems: Constraints from the northern Apennine ophiolites (Italy) and the Iberian margin: E Schwarzenbach

GEP13316P Organic component occurrence in fluids from ultramafic-hosted hydrothermal systems of the Mid-Atlantic ridge: a consequence of H2 production?: C Konn, J Charlou, J Donval, N Holm, F Dehairs, B Steven
1515h HYH06303L Decision support system for catchment management with focus on mining impacts on groundwater in arid zones: I Ribeiro, Buxo, J Quintanilla, M Garcia, R Oyarzun, N Kretschmer, M Venegas, P Jimenez, P Younger, J Amezaga, T Roetting, J Loredo
1600h HYH06304L Poverty mitigation in semi-arid basaltic terrain in western India through soil and water conservation practices: The role of UNESCO-IUGS-IGCP Project no. 523 “GROWNET”: S Limaye
1615h HYH06305L Groundwater management as an agent of social change: S Ragone
1630h HYH06306L Training efforts for water resource development on southwest China’s karst regions: C Groves, D Yuan
1645h HYH06307L A simple cost-effective technique for groundwater recharge through defunct dug-well: S Pagadala, S Ahmed, S Kambhampati
1700h HYH06308L A holistic approach to WATSAN projects in developing countries: K Rudolph-Lund
1715h HYH06309L The International Groundwater Resources Assessment Centre (iGRAC): A valuable source of groundwater information for low-income countries: J Van der Gun

Friday 1400h
IEI-02 Data capture and acquisition
1400h IEI02301L The British Geological Survey digital field data capture system: Better than pen and paper?: C Jordan, A Howard, E Bee
1415h IEI02302L The infrastructure and key techniques on digital geological survey system: C Li
1430h IEI02303L Digitalized field data capture as a part of GTK’s data management process from field to geodatabase: E Kauniskangas, N Ahetonen, T Ronkkö, E Kuronen
1445h IEI02304L Geological survey using digital equipment: E isenko, M Toyoda, O Ozawa, K Hisada
1500h IEI02305L Incorporating biostratigraphic information into the U.S. national geologic map database: N Stamm, D Soller, S Richard
1515h IEI02306L Database of ratter State geological maps for the territory of the Russian Federation: G Brekhou, O Petrov, V Snezhko, N Bereuz
1600h IEI02307L Scanning, indexing and disseminating 750,000 well records without getting too tired: J Tulstrup
1615h IEI02308L Revision of the geological legacy information in Finland – an endless task or the foundation of the digital era?: J Vuollo, J Kohonen
1630h IEI02309L Digital archive of the Czech Geological Survey – Geofond: D Ėápová
1645h IEI02310L The Lithological map of Italy at 1:100.000 scale: An example of re-use of an existing paper geological map: M Amanti, L Battaglini, V Campo, C Cipolloni, M Congi, G Conte, D Delogu, R Ventura, C Zonetti
IEI02311P Digital geological mapping and data capture within the british antarctic survey: M Curtis, M Flowerdew, T Riley, A Tate

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IE102312P Detailed mapping of onshore marine terrace using airborne LIDAR data: A Nguono
IE102313P Lithogenetic Map of Poland scale 1:50 000: A Tekielska
IE102314P Converting geological maps to vector datasets – Completing the national geological information system: P Baland, N Oesterling
IE102315P New general geological map of Slovak Republic at scale 1:200 000: M Polák, V Bezak, M Potfaj
IE102316P Bringing geological records in from the cold: A Tate

Friday 1400h
MPI-04 Mafic dyke swarms: A global perspective – Part 1
1400h MPI04301L The pulse of the Earth: W Bleecker
1430h MPI04302L Testing the magmatic ‘barcode’ for Precambrian relocations – a geochronologist’s perspective: Is the devil in the details?: M Hamilton
1500h MPI04303L U/Pb geochronology of baddeleyite by laser ablation ICPMS: P Sylvester, A Souders, M Tubrett
1600h MPI04304L Mafic dyke swarms of the southern Siberian craton: New geochronological data and tectonic implications: D Gladkochub, T Donskaya, E Sklyarov, J Tait, S Pisarevsky, A Mazukabzov, M Wingate, S Sergeev
1630h MPI04305L Overview – Archean and Paleoproterozoic dyke swarms in the eastern and northern Fennoscandian Shield: J Vuollo
1700h MPI04306L Paleoproterozoic mafic dyke swarms of the Belomorian province, Fennoscandian Shield: A Stepanova, V Stepanov
1715h MPI04307L Map of “Dolerite dyke swarms and related units of Russia and selected adjacent regions”: R Ernst, Z Fedotov, D Gladkochub, V Kulikov, A Ökrugin, V Pavlov, V Puchkov, E Sharkov, A Smelov, V Yarmolyuk, – rest of Working Group

Friday 1400h
MPM-11 Phase transformations and geodynamics
1400h MPM11301L Role of phases transitions on the subducting processes: Dynamics, fluids release mechanisms and earthquake localization. A dynamic numerical modeling approach: R Bousquet
1415h MPM11302L Numerical modeling of slab hydration and related geodynamical processes: M Faccenda, T Gerya, L Burlini
1430h MPM11303L Subduction initiation at a passive margin: A prototype candidate: F Marques, T Gerya, K Nikolaeva
1445h MPM11304L Numerical modelling of subduction initiation at passive margins: Critical effects of continental mantle strength and density: K Nikolaeva, T Gerya, F Marques
1500h MPM11305L Evaluation of phase transitions in the lower crust as mechanism for basin formation: J Semprich, N Simon, Y Podladchikov, S Gac, R Huismans
1515h MPM11306L Mineralogical criteria of the endogenous activity in the sedimentary cover of the N-W of Russian platform: E Panova
1530h MPM11307P Application of adaptive wavelets in geodynamics: Y Mishin, O Vasilyev, T Gerya
1530h MPM11308P Experimental evidence for ultra-high temperature ferro-silicic magmatism at the Cambro-Ordovician Gondwana margin. Implications for mantle-wedge plumes: A Castro, I Moreno-Ventas, C Fernández, G Corretgé, T Gerya, I Loew
1545h MPM11309P How can subduction be initiated? Numerical studies with thermal-chemical plumes: K Ueda, T Gerya, S Sobolev
1550h MPM11310P Numerical modelling of intraoceanic subduction: Crust formation: K Nikolaeva, T Gerya, J Connolly, B Bourdon
1555h MPM11311P Relative rates of metamorphic reactions in high-grade complexes: insight from P-T paths and petrological observations: L Perchuk, D Van Reenen

Friday 1400h
MRD-12 Fluvial palaeo-systems: Evolution and mineral deposits
1400h MRD12301L Types of palaeo-channel mineralization: Spacial and temporal position: N Patyk-Kara, I Pechenkin
1430h MRD12302L Evolution and exploration of palaeochannels/palaeoestuaries, South Australia: A decade on: B Hou, J Keeling, L Frakes, N Alley, X Luo
1500h MRD12303L The use of drainage pattern analysis as a tool for mineral exploration, IGCP-Project 514: A Duk-Rodkin
1515h MRD12304L Heavy mineral placer of fluvial-lacustrine Oligocene paleosystem of West Siberia plain: A Lalomonov, A Bochnueva, D Lalomov
1600h MRD12305L A special kind of sandstone type uranium deposit related to Jurassic paleochannel systems in northeastern Ordos basin, China: Z Li, Y Jiao, X Fang, Y Xia, A Chen, K Zhang, Y Sun
1615h MRD12306L Study and development of CHIM geo-electrochemical method for exploration of concealed mineralisation in China: X Luo, B Hou, N Zeng
1630h MRD12308L The possible role of secondary collector Dwyka and palaeorivers in the formation of diamond placer deposits in the south-western Angola: B Malkin
1645h MRD12309L Heavy mineral sand placer deposits of the Somalliland coast – interaction of fluvial, aeolian and marine processes: P Siegfried
MRD12310P Mineralogy of iron and titanium in the Egyptian kaolin deposits: H Baiouny, A Gigl
MRD12311P Thin Gold from palaeo-valleys of Permian: O Naumova, V Naumov, B Lunev
MRD12312P Mesozoic palaeochannels as diamond source of alluvial placers: I Shmakov
MRD12313P Similarities and distinctions of kimberlite indicator minerals’ haloes in tills on Russian plate, Baltic and Canadian shields: T Tsherbakova, T Kolesnikova
MRD12314P Sources and resources of Ti-Zr paleo placers. New methods and solutions: A Kremenetskiy, L Veremeeva, N Gromovalova

MRD12315P Supergene minerals of bauxite-bearing lateritic residuum as palaeoclimatic indicators – a case study from Karnataka, India: M SethumadHAV

MRD12316P Secondary ores deposits – protection of natural supplies of mineral resources by the economic reassessment of mining sterile and tailings: M ZlagneAN, V Ciocan, F Aurelian, N Tomus

MRD12317P Metallogeny of palaeo-river valleys in the Middle and Southern Urals and the Trans-Urals region: A Khalezov

MRD12318P A new way to post-ore change and preservation: Fission track method combining with fluid inclusion research: J Wang, Y Zhai, R Peng, J Liu, Z Liu, J Liu

MRD12319P Au and associated elements in stream sediments of Sarab area, NW of Iran: A Maghsoudi, M Yazdi, S Younesi

MRD12320P Geochemical and mineralogical characteristics of the modern Patara Beach sediments (eastern Mediterranean, Turkey): M Ergin, K Sözeri, Z Karakas, Y Kadioglu, F Yigit

Friday 1400h

1400h OSP03001L Submarine slope failures on continental margins and their consequences: T Kvalstad

1430h OSP03002L Submarine mass movements in an active continental margin setting: First results from coring the Nankai Trough during IODP NanTroSEIZE stage 1 expeditions: M Strasser, A Kopf, – IODP Exp314,315&316 scientists

1445h OSP03003L Effect of the displacement-rate of a compressional antcline on the slope stability in the deep-water Niger Delta: S Garziglia, N Sultan, A Cattaneo, M VOISSET

1500h OSP03004L Large scale mass wasting at the NW-African Continental Margin: Some general implications for mass wasting at passive continental margins: S Krastel, A Antobreh, R Wynn, R Henrich, T Hanebuth, A Georgiopoulos, J Geersen

1515h OSP03005L Investigations on submarine mass movements along the Brazilian Coast: A review: A Ayres

1600h OSP03006L 3D slope stability: A probabilistic approach; Application to the Nice airport (France) slope: D Leynaud, N Sultan

1615h OSP03007L Modelling sediment-laden flows due to slope instabilities Application to the Nice (Var) slope: R Silva Jacinto

1630h OSP03008L On the dynamics of debris flows – the influence of the ambient fluid: H Breien, M Pagliardi, A Elverhoi, F De Blasio

1645h OSP03009L Analysis of triggering mechanisms of the Ana Slide (Balearic margin of the Æivissa channel, western Mediterranean): S Lafuèrza, N Sultan, D Leynaud, J Frigola, B Denyiou, H Nguyen, A Cattaneo, G Lastras, M Canals

1700h OSP03001L A positive interaction between slump-induced seafloor topography and deep-water coral growth (SW Adriatic sea): T Trincardi, M Taviani, A Freivald, F Foglini, G Verdicchio, D Minini

1715h OSP03001L Anthropic amplification of small-scale, recurrent mass failure within submarine canyons along the Italian margins. The contribute of MaGIC project: A Bosman, D Ridente, F Chiocci

Friday 1400h
STN-03 Morphotectonics of lowland areas


1430h STN03002L Active faulting in MELA area: Poland as an example: W Zachwieów, J Badura, M Jarosinski

1500h STN03003L Morphotectonic of Quaternary landforms, examples from Baltic region: J Cyziene, J Satkunas

1515h STN03004L 3D-Visualization and surface development in a salt-subrosion area in the Eastern Harz-foreland: B Dehm, H Schröder, J Hardt

1600h STN03005L Recent activity of subsurface structures and resulting surface processes within the Central European Basin System: R Lehne, F Sirocko

1615h STN03006L Scientific and economical significance of glaciotectonics and halokinetic in Drenthe, the Netherlands: E Bregman

1630h STN03007L Ground motion observations in the European Lowland Areas based on satellite interferometry method: M Graniczny, A Piotrowski, A Piatkowska, Z Kowalski, J Wasowski, F Bobenga, J Cyziene, J Satkunas

1645h STN03008L Tunnel valleys in the North sea as evidence of channelized subglacial meltwater erosion: J Piotrowski, T Kristensen, L Klintoe, H Mads, H Lykke-Andersen, O Clausen

1700h STN03009L Geological structure, Holocene evolution and neotectonics of Polish southern Baltic coast: S Uscinowicz, R Kramarska, G Miotk-Szpigawowicz, J Zachowicz, M Graniczny, R Dobrakki

1715h STN03010L Double diffuse convection modelling of deep thermalhaline circulation: E Holzbecher, C Kohfhahl, A Bacik, M Dobies, M Schneider, M Mazurowski

1730h STN03011L Structural evolution of Palaearge/ Neogene architecture of Eastern Pomerania: J Kasinski, R Kramarska

1745h STN03012L Geological processes in the Lithuanian coastal zone of the Baltic Sea: A Bitinas

STN03013P Neotectonics of the Odra and Warta rivers valleys in the vicinity of Kostrzyń – NW Poland: A Piotrowski, J Relisko-Rybak, M Graniczny, A Piatkowska, Z Kowalski

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.
STN03314P 3D-Model of Quaternary deposits along lower Oder-/Odra-Valley: O Juschos

STN03315P The biostratigraphic methods used for the reconstruction of Late Glacial palaeoenvironment changes of Gulf of Gdansk (Baltic Sea, Poland): J Krymsinska, G Miotk-Szpijanowicz, D Jankowska, M Witak

STN03316P Geology and geodynamics of the morainic upland's coast of the Puck Landscape: Zaleszkiewicz

STN03317P Tunnel valleys – morphotectonic implication in lowland areas with thick Quaternary cover: J Satkunas

STN03318P Morphotectonic of debno with oil and gas area – NW part of Poland: A Piotrowski, J Relisko-Rybak, P Fuszara, M Schiewe

STN03319P Story about Fenris Wolf and Sea Bear: A Piotrowski

STN03320P Influence of basement structure on morphology Polanów vicinity – N part of Poland: A Piotrowski, M Schiewe, K Petelski

STN03321P Development of the Gdansk coastal area in reference to the risk of sea level rise: W Jeglinski, D Koszka-Maron

STN03322P Geothermal prospecting in north – western Poland: P Fuszara, A Piotrowski

STN03323P Large-scale glacialtectonic deformations in south-western Poland: K Urbanski

STN03324P A community of Sudetic indicator pebbles from the Oder river catchment – a stratigraphic and lithologic tool to indicate tectonic influences on Tertiary and Quaternary loose rock complexes: F Brose

STN03325P Visualization methods of effects of pre-Quaternary structures on recent morphology: P Brose

STN03326P Glacial Morphology in the templin area: H Schröder, B Oehm

STN03327P Analysis of sediments in fossil valleys of the Drawa river in Drawno area (Poland): B Oehm, H Schröder

STN03328P Morphotectonics of the southern Baltic Sea (EEZ of Poland) – a general outline with some palaeogeographic considerations: R Pikies, A Piotrowski

STN03329P Geomorphic evidence of active tectonics in the northern foreland; The west-central Alborz orogen, northern Iran: B Vahdati Daneshmand, M Ghassemi

STN03330P Margin inversion: Example of the western Pyrenees (France): P Lacan, B Nivière

STN03331L Multi phase kinematic model along obliquely convergent margins: South American-Caribbean plate boundary zone: A Escalona

STN03332L Crustal escape of the northern Venezuelan Andes: B Monod, D Dhont, G Backe, Y Hervouet

STN03333L Surface expression of plio-quaternary deformation in the Llanos foothills of the Eastern Cordillera, Colombia: H Diederix

STN03334L Blind thrust, triangular zone development and sedimentation effect along the flanks of the Mérida Andes, Venezuela: L Duerto, A Escalona

STN03335L Morphological assessment of active blind thrusting: Case studies from Venezuela: F Audemard, R Ollarves, L Rodriguez, R Wagner

STN04310P A very complex case of stress transfer: The 1812 earthquakes in Caribbean Plate: A Rogelio


STN04312P Neotectonic and paleoseismic evidences of active blind faulting: M López Cardona

STN04313P Partial stress/strain partitioning along the Southern Andes: Long-term and short-term tectonic and volcanic features: L Lara, J Cembrano

Friday 1400h

STP02 Deducing nature and magnitude of paleoearthquakes: Finding paleoevents and quantifying them – Part 1

1400h STP02030L Paleoseismological investigations for Nuclear Power Plant siting: Lessons learned from the Kashiwazaki-Kariwa accident: A Godoy, A Michetti

1430h STP02032L Paleoseismicity in Sweden: Characteristics, means of magnitude estimates and implications for hazard assessments: N Mörner

1445h STP02030L Paleoseismologic investigations of the El Alto fault system on the Altiplano plateau in the outskirts of La Paz, Bolivia: E Minaya, V Ramirez, R Hermanss, J Clague, M Gonzalez, J Valencia, O Cerritos

1500h STP02030L Surface faulting hazard in Italy: Input for land management: L Guerrieri, A Blumetti, P Di Manna, L Serva, E Vittori

1515h STP02030L Archeoseismological, paleoseismological and geophysical investigations in the Roman Ruins of Baelo Claudia (southern Spain): R Klaus, P Silva Barroso, C Gruetzner

1600h STP02030L Active tectonics of the 16 July 2007 earthquake near Kashiwazaki, central Japan: A key for seismic risk assessment of nuclear powerplants: K Okumura

1630h STP02030L Paleoearthquakes at Monte Netto, Brescia, Italy: Assessing the seismic potential of the Po Plain from the analysis of coseismic environmental

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium's oral presentations.
effects: A Michetti, A Berlusconi, F Livio, G Sileo, A Zerbini, M Cremaschi, I Trombino, K Mueller, E Vittori, C Carcano, S Rogledi

1645h STP02308L Can a logic-tree approach make sense of archaeological evidence for Palaeoseismic events? Testing the logic-tree approach at Sagalassos (SW Turkey): M Sintubin, I Stewart

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**Friday 1400h**

**STT-05 Ocean–continent transitions in rifted margins**

1400h STT05301L Final rifting evolution and continental break-up at magma-poor rifted margins: a new point of view based on observations from the Iberia – Newfoundland system: G Peron-Pinvidic

1430h STT05302L Creating new plate boundaries: The interplay of tectonics and magmatism: J Hopper

1445h STT05303L Breakup thinning of continental lithosphere by combined pure-shear and induced upwelling divergent flow: Implications for rifted margin structure and the ocean continent transition: N Kuszir, R Fletcher, G Manatschal

1500h STT05304L Seaward dipping reflections and the continent-ocean transition: S Planke

1515h STT05305L Determining volcanic continental margin breakup style on the Norwegian Margin – Which criteria are important and can they be generalized?: A Breivik, J Faleide, R Mjelde

1600h STT05306L Mantle evolution during continental rifting and formation of non-volcanic margins: Insights from ophiolitic peridotites: G Piccardo

1615h STT05307L The rifting patterns on passive continental margin and its dynamics: 3D analogue modeling evidences: Z Sun, Z Zhong, D Cai, X Li, D Zhou

**STT05308P** Deformation localization influenced by underplated mafic bodies: Implications for the onset of break-up and micro-continent formation: T Yamasaki, L Gernigon, C Gaina, G Perron-Pinvidic

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**Friday 1400h**

**UHP-04 Ultra-high pressure metamorphism: Mineral reactions, geochemistry, thermobarometry and geochronology**

1400h UHP04301L Major- and trace-element modelling in UHP garnet: M Konrad-Schmolke, T Zack, P O’Brien, D Jacob

1415h UHP04302L Diagnostic evidence for melt within metamorphic garnet: A Perchuk, V Davidova, V Yapaskurt, M Burchard, W Maresch, H Schertl

1430h UHP04303L Unusual plagioclase moat / pyroxene necklace structure around garnet in a quartz-rich layer of the Averøy eclogite, western Gneiss Region, Norway: P Robinson, N Daczko, T Krogh, K Hollocher

1445h UHP04304L The UHP metamorphism in Dora-Maira whiteschists, western Alps: New data from the peak mineral assemblage and the multiphase solid inclusions in pyrope: S Ferrando, M Frezzotti, R Compagnoni

1500h UHP04305L Metamorphic evolution of kyanite-garnet gneisses from the HP/UHP terrane of Pohorje (Eastern Alps, Slovenia): M Janak, D Cornell, N Froitzheim, C de Hoog, L Broska, M Vrabec, V Hurai

1515h UHP04306L Timing the Rhodope UHP-event using zircon and monazite: g honk, k krenn, d rubatto, k krenn, a proyer, f bernhard, c bauer

1600h UHP04307L Diversity among peridotites in the Western Gneiss Complex, Norwegian Caledonides: S Cuthbert

1615h UHP04308L Metasomatism of the UHP Svarberget olivine-websterite body in the Western Gneiss Complex, Norway: H Vrijmoed, H Austrheim, T John, Y Podladchikov

1630h UHP04309L Ultrahigh-pressure garnet peridotites from the devolatilisation of sea-floor hydrated ultramafic rocks: J Yang, R Powell

1645h UHP04310L Metamorphism of impure calcite dolomite marbles: HP- and UHP-indicators: A Proyer, G Honk

**UHP04311P** Meta-silicocarbonate or metamatic calc silicate marble? REE-rich carbonate-rich rocks from the HP/UHP Tromsø Nappe: E Ravna, K Kullerud, B Davidsen, R Selbekk

**UHP04312P** Action of plane shock waves to rock-forming minerals of Southern Urals amphibolite: I Belyatinskaya, V Feldman, V Milyavskiy, D Zhermakletov, T Borodina

**UHP04313P** An alternative model for ultra-high pressure in the Svarberget olivine-websterite, western gneiss complex, Norway: H Vrijmoed, Y Podladchikov, T Andersen, F Cortu

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Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.
Friday 8 August – Late Afternoon

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The following symposia begin in this session. Some symposia continue on the next day. Next day presentations may be found in the next day section.

**Friday 1600h**

**E1L-07 The Earth’s gravity field – a key to surface tectonics and mantle geodynamics**

1600h **E1L07301L** The new world gravity map project: A tool for geodynamic studies: *A Briais*, S Bonvalot, M Sarrailh, T BGI

1615h **E1L07302L** Satellite gravity and geoid studies reveal the tectonic setting and isotatic state of large-scale basin structures: C Braitenberg, J Ebbing

1630h **E1L07303L** An integrative model of the crust and upper mantle of Europe based on a joint analysis of gravity and seismic data: *M Kaban*, M Tesauro, I Koukalov, S Cloetingh

1645h **E1L07304L** Free-air gravity anomaly constraints on three-dimensional mantle structure from joint inversions of global seismic and geodynamic data: *A Forte*, N Simmons, R Moucha, S Grand

1700h **E1L07305L** Absolute gravity measurements along the Andean margin: A contribution to earthquake and volcano geodesy: *S Bonvalot*, J Hinderer, G Gabalda, B Luck, D Remy, F Bondoux

1715h **E1L07306L** Density model and effective strength of lithosphere in the northwest Himalaya: *V Tiwari*, P Banerjee, B Singh

**E1L07307P** Upper Yangtze craton within western China continent has thickened and weight lithospheric root: *S Cheng*, X Wang, X Xu, Y Qu, X Jing

**E1L07308P** Gravity data analysis over the Caribbean-South America plate boundary and a preliminary 3D gravity model: *J Sánchez*, H Götz, C Izarra, M Schmitz

**E1L07309P** The Dead Sea transform from above and from space – The gravity survey of the DESIRE project: *S Choi*, H Götz, U Meyer, K Abu Ayyash, Y Bartov, D Jaser, Z Ben-Avraham, R El-Kelani, G DESIRE

**E1L07310P** Investigation into the deep structure and tectonic characteristics of Turkey using potential field anomalies: *A Ates*, F Bilim, A Buyuksarac, A Aydemir, O Bektas

**E1L07311P** Composition of the upper mantle beneath the Lapland-Kola orogen (northern Fennoscandian shield) obtained by 3-D modelling of Bouguer anomaly: *H Silvennoinen*, E Kozlovskaia, T Janik

**E1L07312P** Gravity models of the Vrancea active seismic zone: *L Atanasiu*, L Besuți

**E1L07313P** Lithosphere dynamics within Vrancea seismic nest as inferred from non-tidal gravity change: *L Zlagnean*, L Besuți

**E1L07314P** The significance of rotational forces on the formation of the continents: the source of the earth’s internal forces which moved and shaped our continents and mid ocean ridges: *J Rutherford*

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**Friday 1600h**

**HPF-12 Environmental micropaleontology: Past, Present, future – Part 1**

1600h **HPF12301L** The microfossil record of human impacts in New Zealand estuaries: *H Grenfell*, B Hayward, A Sabaa

1630h **HPF12302L** Foraminiferal assemblages reflect human-induced and natural environmental change: Case studies of watershed degradation, pollution, and whale falls: *M McGann*, M Field, S Cochran, R Vrijenhoek, S Johnson

1700h **HPF12303L** Environmental micropaleontology: Historical review and current status (as illustrated by foraminifera): *V Yanko-Hombach*

1715h **HPF12304L** Ecological studies on recent foraminiferal assemblage along the Mediterranean continental shelf of Egypt: *A Samir*, W El-Menhawy

1730h **HPF12305L** Pleistocene environmental evolution of the Ukrainian Carpathians, based on palynology: *N Gerasimenko*

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**Friday 1600h**

**MPC-04 Constraining timing and rates of surface processes by low temperature thermochronology**

1600h **MPC04301L** Low temperature geological evolution recorded by $^{40}Ar/^{39}Ar$, $^{87}Sr/^{86}Sr$ and stable isotopes in fracture minerals at Forsmark, Fennoscandian Shield, central Sweden: *B Sandström*, E Tullborg, L Page

1615h **MPC04302L** Systematic shift in apatite (U-Th)/He and fission track ages in Palaeoproterozoic domains, south-eastern Sweden: *P Söderlund*, J Juez-Larré, L Page, F Stuart, P Andriessen

1630h **MPC04303L** Annealing rate of fission tracks in samples with old AFT ages: *B Hendriks*, R Donelick, P O’Sullivan, T Redfield

1645h **MPC04304L** Direct versus indirect thermochronology – What do we trace? Example and implication for the eastern Andes of SE Peru: *G Ruiz*


1715h **MPC04306L** The landscape in the western Cantabrian Mountains of NW Spain: A case example for slow rates of landform evolution: *J Alvarez-Marron*, R Menendez-Duarte, U Glasmacher, F Stuart, R Grobe, S Fernández, D Brown, P Mas

**MPC04307P** The timing of out-of-sequence thrusting developed in the Shimanto accretionary complex, Kyushu, Southwest Japan: Constraints from low temperature thermochronology: *H Hara*

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**Friday 1600h**

**UNC-07 CLCS recommendations, commentaries**

1600h **UNC07301L** The time limit for making submissions to the CLCS – current questions: *A Oude Elferink*

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1615h **UNC07302L** The consideration of submissions by the CLCS: How much openness?: **A Oude Elferink**

1630h **UNC07303L** Entitlement, evidence, expertise and expense: the quandary facing developing coastal states striving to implement UNCLOS Article 76: I Russell, **R Macnab**

1700h **UNC07304L** Outcomes and implications of the continental shelf submission of Australia: **M Alcock, B Campbell, T Quinn, P Symonds**

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Friday 8 August – Posters

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The following symposia contain only poster presentations.

**Friday 0800h–1900h**

**AS102332P** The alteration geochemistry and petrology of Totmaz volcanic rocks, NW of Natanz, Iran: M. Aminooraya Yamin, A Kananian, J Ahmadian

**AS102233P** Structural and tectonic composition and estimation of East Kamchatka hydrocarbon reserves: O. Sagaydachnaya, B Kanareykin, G Anosov, S. Popruzhenko

**AS102334P** Geological characteristics of the goldbearing zone Blagojev kamen Serbia: M Bugarin, V Tjujic, G Slavkovic

**AS102235P** Tectonics and mineralogy of northeastern Eurasia in the section of the Sea-of-Okhotsk – the Long Strait geotraverse: A Yefimov, V Surkov, V Staroseltsev, V Kuznetsov, A Salnikov, P Sobolev, A Lipilin, A. Suleimanov, N Zamozhnyaya, A Yakovlev, D Zubov

**AS102336P** Geology and petroleum potential of pre-mesozoic west Siberian plate basement: V Surkov, L Smirnov

**AS102337P** A seismic geological model of the Lower Cretaceous clinof orm complex in the north of Siberia: A. Isayev, V Devyatov, M Dontsov

**AS102338P** Mineral resources of siberian deep hydrosphere: O Shiganova, A Surnin

**AS102339P** Main centres of generation of hydrocarbons in western and eastern Siberia: V Staroseltsev

**AS102340P** Informational maintenance of the complex subsurface development of the large resource centers in eastern Siberia and Sakha republic (Yakutia): A Gert, K Zhukov, S Khmelev


**AS102342P** Triassic rapakivi-textured granitoids and associated mafic intrusions in the Qinling orogen, China, and their tectonic significance: X Wang, T Wang, X Lu, Q Xiao

**AS102343P** Geodynamics and minerology of the palaeorifts and passive margin of the central part of the East European Craton: S Strelnikov, R Aizberg, R Garetsky, A Karabanov

**AS102344P** Transparent geochemical zones of the lithosphere of Eurasia: V Pevzner

**AS102345P** Genetic features of ultramafic volcanism sources in different geodynamic situation (north of Euroasia): E Landa, B Markovsky

**AS102346P** The tectonic evolution of the lithosphere in the interference area of the central asia and the Pacific Mobile Belts (Transbaikalia and the far east of Russia): A Volksy

**AS102347P** Telescoping of mantle minerageny in the Earth’s crust of Eurasia: O Petrov, B Blyuman, M Orlova, V Proskurnin, L Luk’yanyova

**AS102348P** The comparison of the geology of Pamirs and Afganistan: N Vlasov

**AS102349P** Formation analyze, tectonic position and diamondiferous potential of the southeastern White Sea area (Archangelisk region, NW Russia): V Garanin, K Garanin, V Tnyuchyeko

**AS102350P** Early Mesozoic deformations of the eastern Yanshan thrust belt, northern China: J Hu, Y Zhao, X Lin, G Xu

**AS102351P** Chemical and stable isotopic geochemical characteristics of ore-forming fluid of the shizishan copper and gold ore-field, Tongling: J Li, S Lu

**Friday 0800h–1900h**

**HPF01333P** Cambrian lobopodians: origin, comparisons and evolutionary significance: J Liu

**HPF01334P** The unique collections of the Paleontological Museum of Tomsk State University: V Podobina, L Porokhovichnenko, G Tatyanin

**HPF01335P** Comparison of Precambrian fossil biota of the Ukrainian and Fennoscandian Shields: O Yatsenko

**HPF01336P** Early to middle Jurassic Radiolarian fauna from the Raskoh arc and its Tectonostratigraphic significance: R Siddiqui, T Naka, M Haq, I Khan

**HPF01337P** Recent Radiolarians of Colombian Caribbean: K Leon Palma, V Torres Torres, F Fiorini, A Sanfilippo

**HPF01338P** First evidence of Tuvalian (upper Carinian) radiolarians from the Kopriva Mélange in Rhodos (Greece): P Moix, A Hungerbühler, J Guex, G Stampfli

**HPF01339P** Triassic and Jurassic cherts linked to the MOR basalts in the Othris area (Greece): M Chiari, V Bortolotti, M Marcucci, A Photiades, G Principi, E Saccani

**HPF01340P** Tectonic and ecosystems’ evolution of the Baltic sedimentary basin at the Silurian-Devonian transition: J Lazauskienë, S Siaupa, J Marshall, Z Zigaite

**HPF01341P** REE and trace elements of fossils from Devonian/Carboniferous Boundary – its life science and pale environment significance: S Peng, Y Wang, Y Wang, H Li

**HPF01342P** Pennsylvaniaian Heteroconchia from Piauí Formation, Paranaíba Basin, Brazil: L Anelli, G Perlingeiro

**HPF01343P** Visean-Serpukhovian boundary carbonates in Western Kazakhstan: A case study of Lower Carboniferous sedimentation: L Akhmetshina, S Nikolaeva, V Konovalova, V Korobkov, G Zainakaeva

**HPF01344P** Mammoth remains from the Pleistocene of Ptolemais basin in W. Macedonia: S Stratigopoulos
HPF01345P Stratigraphy, palaeontology and palaeoecology of Balast section, North Damghan-Iran: K Khakzar, M Kebraeiezadeh

HPF01346P Sugi tree stands in ancient Italy: G Coccolini

HPF01347P Lower barremian beehonk foraminifera from a calcareous bed in the paja formation (Villa de leyva, Colombia): G Patarroyo Camargo, C Sánchez Quiñonez

HPF01348P Archaeocyaths from the early Cambrian chengjiang fauna, south China: H Liu, Q Ou, J Han, J Liu, J Guo

HPF01349P Earliest paracemal of the old world: V Titov

HPF01350P High resolution biostratigraphy of the K/T boundary in Higran section, Shaqalwa area northern Iraq: R Hammoudi Al Bazzaz

HPF01351P Functional disposition of the lophophore in the Llower Cambrian crinichopod Holmeduessa orienta from South China: Z Zhang

HPF01352P Primary mesozoic abiotic and biotic events in siberia: V Devyatov, V Sapjani, A Aleinikov, O Lutikov, N Mogucheva, L Smirnov

HPF01353P Foraminiferal biostratigraphy of the upper cretaceous Catak Formation in the Mæcka area, Trabzon, Turkey: E Türk, P Çapkynöðlu

HPF01354P Problems of biostratigraphic correlating the deposits of the petroleum sedimentary basins: T Dmitrieva, A Kirichkova, A Zhuravlev

HPF01355P Two new species of Odonatoptera (Paralogidae, Paranamurotypidae) from the Upper Carboniferous of China: Z Zhang, Y Hong

HPF01356P Upper Paleozoic calcareous complex of the Malopolska block in the SE Poland: M Machowicz, M Machowicz, A Tomas, A Tomas

HPF01357P Sequences and fusulinoids of Moscovician/Kasimovian boundary section of Piena area: Gates between Moscow Basin and Arctic Shelf: D Baranova, P Kabanov, A Alekseev

HPF01358P The jurassic collision between the Indian Plate and the Asian Plate and the appearance of Asian dinosaurs: X Fang

HPF01359P Pliocene charcoals from Shanxi, central China: Y Cheng

HPF01360P Changes in the late villafarnchian mammal assemblages (from Farneta to Pirro FUs, Early Pleistocene) of Italy: A Kotsakis, C Petronio, C Angelone, L Bellucci, F Marcolini, L Salari, R Sardella

HPF01361P Palynostratigraphy of the Lower Carboniforous Flysch deposits in the Nizky Jesenik Mts. (Czech Republic): A Zdanowski, A Trzepieczynska

HPF01326P Fluvial taphonomy and sequence stratigraphy: Relations between fluvial style and taphonomic mode of preservation in vertebrate taphocoenoses: C Bertoni-Machado, M Holz

HPF01363P Geological settings of the late Cretaceous (Campanian-Maastrichtian) vertebrate fossil-bearing sites from the southern Basque-Cantabrian region (Iberian Peninsula): A Berreteaga, X Pereda Suberbiola, M Floquet, E Iriarte, H Astibia

HPF01364P Trapped inside a volcano: The fossil record at the maar site of El Camp dels Ninots (Pliocene, Catalonia): O Oms, B Gómez, G Campeny, R Sala, J Agustí, J van der Made, F Burjachs


HPF01366P A European point of view of Maastrichtian dinosaur succession. The southpyrenean record: O Oriol, V Riera, J DINARès-Turrell, A Galobart, R Gaete, R Estrada, E Maestro, E Vicens, B Vila

HPF01367P Taxonomy and evolution of the non-ammonoid cephalopods around Lower/Middle Triassic boundary: E Sobolev, E Gradinaru

HPF01368P Lower Devonian icriodontid conodont clusters – apparus reconsconsiderations: T Suttnner

HPF01369P Macroinvertebrates in Pleistocene marine deposits on Rhodes, Greece: Biostratigraphy and palaeoecology: J Nielsen, N Hanken, J Nielsen

HPF01370P Paleogeographic evolution and lower Cretaceous biochronostratigraphic subdivision of a southern Tethyan margin: Example of Tunisia: N Ben Haj Ali, M Ben Haj Ali

HPF01371P Bathyonic and callovian ammonites of norther Iran: M Majidifar

HPF01372P Coping with tropical nature: Gulheimer de Capanema (1824-1908) and droughts in Brazil: S Figueiròa

HPF01373P Development of a method of age determination of sedimentary rocks within the framework of a sinergetic approach: A Djencherueva, O Kanygina, L Neevina

HPF01374P Stratigraphy and ammonites in middle and upper jurassic of the northeastern Iran: M Majidifar

HPF01375P The species diversity of fusulinaceans and sea-level changes in the Carboniferous-Permian boundary section at Xikou, Zhen’an County, Shaanxi Province, China: H Zhang, X Wang, H Zhou, G Xia

Friday 0800h–1900h
HYH-06 Groundwater development – experiences from low-income countries, foreign aid projects and disaster relief – a symposium including the UNESCO-IUGS-IGCP project GROWNET

HYH06317P The issues of over-exploration and human induced contamination of groundwater in NWFP, Pakistan: B Nawab, O Harsrud, K Rudolph-Lund

HYH06318P Geochemical modeling of the nubian sandstone aquifer, north Kharga area, western desert, Egypt: E El Sayed, M El Kashouty

HYH06319P Management of spring water supply in earthquake affected areas: Challenges encountered in NWFP, Pakistan: B Nawab, O Harsrud, K Rudolph-Lund

Friday 0800h–1900h
HPF-12 Environmental micropaleontology: Past, Present, future

HPF12318P Modern changes in sedimentation conditions and benthic foraminifera as indicators of pollution in bottom deposits: A Kravchuk, O Kravchuk
HPF12319P Benthic foraminifera bioindicator for pollution monitoring in a low polluted coastal area of the Adriatic Sea: F Frontali, R Coccioni
HPF12320P Benthic foraminifera for monitoring trace elements pollution in the Venice lagoon: F Frontali, R Coccioni, A Marsili, D Mana
HPF12321P Nanoparticle toxicity and benthic foraminifera: F Frontali, R Coccioni, A Gatti, C Bucci
HPF12322P Peculiarities of bentic eubirutis (foraminifera) in jurassic basins of Siberia: V Sapjanik, V Devyatov
HPF12323P The Sarmatian-Pannonian transition in the Central Paratethys (SE Transylvania, Romania): A Briceag, A de Leeuw, M Stoica, M Melinte, W Krijgsman, I Vasileiev
HPF12324P Facies analysis and sequence stratigraphy of the Neocomian Fahlbian formation in the Zagros Basin, SW Iran: M Hossein, B Rafiei, M Shahkarami
HPF12325P Benthic biofacies eco-succession and paleoenvironmental changes in Rhodes island, (Late Pliocene, Kritika Member, Rhodes Formation) Greece: E Koskeridou, H Drinia, P Moissette, J Cornée
HPF12326P The benthic foraminiferal communities of the Southern Campanian continental shelf (Tyrrhenian Sea, Italy): L Ferraro, I Alberico, F Budullion, F Liver
HPF12327P Effects of heavy metals on benthic foraminiferal tests with abnormal morphological deformities observed in Alibey and Maden islands (NW Ayvalik-NW Turkey): E Meric, N Avsar, A Nazik, F Mekik, M Yokes, F Suner, E Sari, I Barut, M Eryilmaz, F Yucesoy-Eryilmaz, O Dora, F Dincer
HPF12328P Stratigraphy of the Jurassic Outcrops and structural setting at Wadi El-Bih, vicinity of Ras El-Kheima emirate, UAE By Osman Abdelghany, Mahmoud Abu Saima and Waheed A. Hashem: M Abu Saima

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Friday 0800h–1900h
MPI-04 Mafic dyke swarms: A global perspective
MPI04317P Geochemical constraints and temporal evolution of dykes in the Moyer-Bhavani shear zone, Kerala, south India: P V, P P P K R
MPI04318P Geochemistry and evolution of mafic dyke swarms of tirupati and its surroundings chitoor district, andhra pradesh, India: S Nalla, K Raghup Bobby
MPI04319P Geology and geochemistry of mafic dyke swarms of Nalgonda district in Eastern Dharwar Craton, southern India: Implications on source characteristics: H Rangapalli, V Pokala, S G
MPI04320P Mafic-ultramafic dyke swarms from the Damodar valley, east Gondwana basin, eastern India: Constraints on plume versus rift origin: R Srivastava, N Chalapathi Rao, A Sinha
MPI04321P Meso-Cenozoic basalt dike swarms and continental breakup in cratonic South America: P Szatmari, E Milani, J Françoil, D Oliveira

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Friday 0800h–1900h
OST-03 Ocean margin and ocean island sediment mass movements and their consequences: Where? When? Why?
OST03321P A data base on submarine landslides of the Mediterranean Sea: R Urgeles, L Fantoni, A Camerlenghi
OST03322P Characterisation of landslide-prone slope sediments in the Cretan sea (eastern Mediterranean): A Förster, M Strasser, F Strozyk, G Spagnoli, S Stegmann, A Kopf
OST03323P Core-log-seismic integration of mass transport complexes in the shallow subsurface of the Ursa basin, northern Gulf of Mexico: S Derek
OST03324P Deposition rate and geochemical characters of sediments in Zhejiang offshore: Z Zhang
OST03325P Geochemical evidence for groundwater-charging of slope sediments: The Nice airport 1979 landslide and tsunami revisited: A Köpf, S Kasten
OST03326P Mass movements on the inner slope of a wedge at the transition from frontal accretion to frontal erosion: Evidence from a fossil analogue in the northern apennines of Italy: L Fantoni, G Bettelli, F Panini, R Francesca, P Vannucchi
OST03327P Multi-parametric analysis and slope stability assessment of a submarine slide in the deep basin offshore Algeria (Western Mediterranean): A Nouguès, A Cattaneo, D Leynaud, R Silva Jacinto, N Sultan, B Savoye, K Yelles
OST03328P Post-rift sedimentary processes on the Gebra Debris-Valley, central Bransfield Basin (Antarctic Peninsula): D Casas, G Eccilla, A Maestro, F Estrada, M García, J Hernandez
OST03329P Seafloor stability monitoring by a 3-component servo-accelerometer system: T Yokoyama, H Saito, H Kameya
OST03330P Tsunami potential of the 25 ky BP Gondola Slide in the SW Adriatic margin: S Tinti, F Trincardi, G Pagnoni, A Armigliato, F Zaniboni, F Foglini, F Gambetti, D Minisini

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Friday 0800h–1900h
STP-02 Deducing nature and magnitude of paleoearthquakes: Finding paleoevents and quantifying them
STP02315P Deducing the source and magnitude of paleoearthquakes from paleoleiquefaction features: Example of the Boumerdes (Algeria) region: Y Bouhadad
STP02316P Paleoseisimologic indicators in the Ganjeolgot area, SE Korea: K Jin, Y Kim
STP02317P New scale of macroseismic intensity-ESI 2007 applied to peruvian earthquakes: Y Zamudio
STP02318P Morphotectonic modeling of the Ibague strike-slip fault, Colombia: L Franco, J Osorio, F Velandia, N Montes, H Diederich
STP02320P Redetraction formation of a Quaternary fault; Suryum fault at the southeastern coast of Korean peninsula: S CHOJ, D HONG, U CHWAJ, T Shim, Y SONG
STP02321P Sedimentary, paleoseismic and archaeological record of earthquakes in moderate seismic zones. An example in the SE of Spain: M
Rodríquez-Pascua, R Pérez-Lópes, J Giner-Robles, J Bischoff, V Garduño-Monroy, I Israde-Alcántara, P Silva, J Calvo-Sorando

STP02322P Towards a catalogue of earthquake environmental effects: A Michetti, V Comerci, E Esposito, L Guerrieri, S Porfido, P Silva, E Vittori

STP02323P A standardised procedure for earthquake archaeology: The archaeoseismological logic tree: I Stewart, M Sintubin

STP02324P Geophysical investigation of earthquake induced paleoseismological features: H Al-Shukri, H Mahdi, O Alkadi, M Tuttle
Saturday 0830h
ASI-05 Tectonics and crustal growth in Central Asia
0830h ASI05401L Edward Suess and the Altaiids: what is in a name?: A Sengör, B Natal’ in
0845h ASI05402L Tectonics and models for the Neoproterozoic development of accretionary orogens of the western Siberian Craton continental margin: V Vernikovsky, A Vernikovskaya, D Metelkin
0900h ASI05403L Plates transfer between Peri-Gondwana and Central Asia during Paleozoic times: J Golonka, M Krobicki, Z Paul, A Khudoley
0915h ASI05404L Transcontinental shear zones in northern Asia: B Natalin
0930h ASI05405L Paleozone tectonic and geodynamic evolution of Chinese Tianshan and east Junggar (NW China): Accretion of the southern central Asian orogenic belt: J Charvet, B Wang, M Faure, L Shu, D Cluzel, Y Chen, S Laurent-Charvet
0945h ASI05406L The Aral Basin: Evolution and oil and gas presence: B Uzhkenov, N Davydov, A Davydov
1030h ASI05407L Isotopy evolution of metamorphic and magmatic rocks of the Irtysh shear zone in Kazakhstan: P Yermolov
1045h ASI05408L An early Paleozone high-pressure metamorphic belt established in western Junggar, Xinjiang (central Asia), NW China: Y Zh, B Chen, H Massonne, X Xu
1100h ASI05410L Late Paleozone ridge subduction along the southern margin of Chinese altai and its implications on orogenesis and crustal growth: K Wong, M Sun, G Zhao, C Yuan, W Xiao
1115h ASI05410L Main stages of evolution of the northern segment of Central Asian orogenic belt: T Donskaya, D Gladkochub, A Mazukabzov
1130h ASI05411L Types of the continental crust of the western part of Altai-Sayan Fold Region and their reflection in granitoid magmatism: N Kruk, G Babin, E Kruk, M Kuibida
ASI05412P Geotectonic position of Kyzyłkumes based on new geophysical data: B Nurtayev
ASI05413P Paleo stress description of Sangan folding in central Alborz: N Ebadati
ASI05414P Genesis and evolution of Tertiary lavas of the Central Hangay Mountains, Mongolia: J Otgonkhuu, J Tielke
ASI05415P Sedimentary evolution of the ‘A’ member of Qom formation: K Khakasar
ASI05416P Late Paleozone tectonic evolution in the eastern margin of the Jamusi Massif, northeastern China: Evidence from detrital and magmatic zircon U-Pb ages: W Xu, E Meng, F Pei, D Yang, Y Yu, X Zhang, Z Ma
ASI05417P Kinematics of tectonic fracture development during regional folding in sandstones of the Kamlial Formation, Khushigalar, northern Pakistan: K Jadoon
ASI05418P Evidence of Tarim plume effect on Altai Hercynides Forming (examples from magmatic complexes in East Kazakhstan): S Khromykh, A Vladimirov
AS105419P Digital geological map of the Khan Tengri Massif (Central Tian Shan): A Mikolaichuk, M Buchroithner, V Dolgushev

AS105420P New look on geological structure and geodynamic evolution of Kazakhstan region: A Baibatsa


AS105422P Paleozoic regional tectonics of minor plates and its base: N Seiow

AS105423P Genetic and geodynamic nature of the Paleozoic ophiolite structures and their surroundings from a position of the Paleozoic regional small plate tectonics: N Seiow

AS105424P Geodynamics of the Mesozoic basins in the northeastern China: X Zhang, J Zhou

AS105425P Ore-forming epoch and tectonic tracing of typical pegmatite deposit in western Sichuan Province, China: J Li, Z Chen, D Wang

Saturday 0830h

BGB-02 Geomicrobiology: Low-temperature alteration, mineralization, and microbial interactions

0830h BGB02401L Microbially induced precipitation of calcite in culture experiments: Possible origin for stalactites in Sahastradhara caves, Dehradun, India: S Baskar, R Baskar, L Maucaille, A McKenzie

0845h BGB02402L Assessing the role of microbial interactions in freshwater low Mg calcite ooids cortex formation: K Plée, D Ariztegui, E Sahan, M Pacton, M Dittrich

0900h BGB02403L Biomineralization events in Recent volcanic and sedimentary settings: Textural features and isotope signatures: M Cangemi, A Bellanca, R Neri, G Scopelliti

0915h BGB02404L Early diagenetic celestine replacement of demospores in upper campanian-upper maastrichtian chalk: H Madsen, L Stemmerik

0930h BGB02405L Zeolite carriers as an algorithm of biological system formation: O Kotova

0945h BGB02406L Enumeration of archaea and bacteria in seafloor basalt: J Einen, I Thorseth, L Øvrevås

1030h BGB02407L The hidden biosphere: Cryptoendolithic life in Devonian pillow basalt: B Eickmann, W Bach, S Kiel, J Reitner, J Peckmann

1045h BGB02408L Can dissolving basaltic glass generate enough H2 to sustain a deep biosphere?: H Hellevang, I Thorseth, R Pedersen

1100h BGB02409L Microbial influence on the structural design, microtexture and geochemistry of hydrothermal iron-deposits: I Thorseth, C Kruber, R Pedersen

1115h BGB02410L Microbial diversity in low temperature iron deposits at the 71°N hydrothermal vent field at the arctic-ocean ridge: L Øvrevås, T Johannessen, J Einen, S Jørgensen, I Thorseth, R Pedersen

1130h BGB02411L Microbial communities in the lichen-rock interface: T Bjelland, M Grube, F Daae, I Thorseth, L Øvrevås

BGB02412P Biomat formation system and its application: Research, education, and contribution to society: K Tazaki

BGB02413P Experimental study on adsorption of heavy metals and arsenic onto bacterial biofilm developed on soil surfaces: H Park, M Ko, H Chon, K Bang, J Lee, Y Shim, J Lee

BGB02414P Isolation of neutrophilic ferrous iron oxidizing bacteria from terrestrial Fe-hydroxide deposits: T Johannessen, J Einen, L Øvrevås, I Thorseth

BGB02415P Occurrence, distribution and role of microbial communities in a shallow hypogean environment: Geomicrobiology and microenvironmental conditions: S Cuezva, S Sánchez-Moral, D Benavente, J Cañaveras

BGB02416P Distribution of microorganism in the unsaturated zone and groundwater beneath the wastewater irrigation area: C Zhang, M Yin, Z Li, L Ma, S Zhang

BGB02417P Relation between anaerobic oxidation of methane and authigenic carbonate chimneys of gulf of Cadiz: Mineralogical, geochemical and petrological evidences: R Merinero, R Lunar, I Somoza, C Menor Salvan, M Ruiz Bermejo, M Martinez Frias

BGB02418P Effects of sulfate reducing bacteria on molecular composition of gaseous fractions (C3-C4) in normal crude oils: H Hosgörmez, E Sungur, N Dogruöz, S Inan, S Cemil, A Cotuk, N Yalcin

BGB02419P Nanoballs in sediments as an evidence of early diagenesis mediated by bacteria: M Pacton, G Gorin, N Fiet

BGB02420P Microbial communities related to low-temperature alteration of ultramafic rocks: F Daae, I Okland, L Øvrevås, T Bjelland, I Thorseth, R Pedersen

BGB02421P Abiotic and biotic contribution to the total methane flux in a closed ultramafic system: A Neubeck, D Nguyen

BGB02422P Bacteriogenic iron oxide precipitation at deep-sea hydrothermal vents: A 1.7 Gyr record: C Little, I Thorseth, T Grenne, J Slack

Saturday 0845h

CGC-08 Reconstruction of past climates based on combinations of microfossil records

0845h CGC08401L A temperature and mire hydrology record for the last 500 years based on pollen, testate amoebae and pine needle production: S Hicks, K Schoning, H Hyppä, A Huusko, R Jalkanen, T Goslar

0915h CGC08402L Summer temperature, growing season length, and precipitation reconstructions from near-annual proxy-records in northern Sweden: L Barnekow, W Finsinger, N Loader, K Schoning, F Wagner-Cremer

0930h CGC08403L Palynological remains in lake Sapanca (North Anatolian Fault) indicators of non-climatic events: S Leroy
1030h CGC08404L High-nutrient tropical carbonates – the modern Mauritania shelf: J Michel, H Westphal, G Mateu-Vicens

1045h CGC08405L Calcareous plankton evolution and the Paleocene/Eocene thermal maximum event: P Bown, P Pearson

1100h CGC08406L Benthic Foramminer al assemblages from the Images Site 97-2114 (sw Pacific Ocean): A tool for paleoecological reconstructions for the past 1 million years: I Trattenero, F Jorissen, N Mancin

1115h CGC08407L Polycystina (eudiradolaria) in the Arctic Ocean: Evolution and speciation: S Kruglikova, K Bjorklund

1130h CGC08408L Reconstruction of sea surface temperatures for the neogene and Quaternary: P Smolka

CGC08409P Reconstruction of climate during Holocene in the tundra, taiga, mixed forests and steppe zones according to high resolution pollen records from lake sediments: T Sapelko

CGC08410P The Late Glacial in Pomerania (Northern Poland): Analysis of palynological records: G Miotk-Szpiroganowicz, J Zachowicz, L Jurys

CGC08411P Benthic foraminifer and calcareous nanofossil responses to Pleistocene climate changes in the south west pacific ocean: I Trattenero, C Lupi, N Mancin, M Cobianchi

CGC08412P Sedimentological, Geochemical, and Paleontological Evidences for Neoglacial Cold Event during the late Holocene in the Continental Shelf of the Northern South Shetland Islands, West Antarctica: H Yoon, Y Kim, K Yoo, J Kim, B Kim

CGC08413P Planktonic foraminifera in the last 500 years in the Southern Tyrrenhian sea: Paleoclimatic implication: M Vallefucco, F Lirer, I Ferraro, M Sprovieri, I Bellucci, S Albertazzi, S Giuliani

CGC08414P Paleoclimatic and paleoceanographic changes in the Mediterranean sea during the last 20 kyr: The response of planktonic and benthonic communities: F Amore, G Ciampo

CGC08415P Asian monsoon variability recorded by terrestrial mollusk assemblages in the Chinese loess plateau since the last 500 ka: N Wu, X Chen, F Li, D Rousseau

1030h EGC04405L Geochemistry of Europe – the importance of sample material and scale: C Reimann, R Salminen


1130h EGC04408L Environmental geochemical atlas of Italy: B De Vivo, A Lima, M Bove, G Sabatini, P Frizzo

1145h EGC04409L Multipurpose geochemical mapping of Russia: The technology and the results: A Morozov, E Burenkov, A Golovin, A Kremenetskiy, T Chepkasova

1400h EGC04410L Multi-scale geochemical mapping in China: X Wang

1430h EGC04411L Compiling methods on national regional geochemical series maps of China: Y Xiang, R Liu

1445h EGC04412L Geochemical mapping in the type area for laterite, Malappuram district, Kerala, India: M Joseph, D Rout

1500h EGC04413L Regional geochemical baseline mapping in Medak district, Andhra Pradesh, India: S Dantu

1515h EGC04414L Application of a fractal method relating concentrations and areas for separation of geochemical anomalies from background in stream sediments: M Pirouzbakht, M Ahadi, B Esfandiar

1600h EGC04415L The North American Soil Geochemical Landscapes Project: D Smith, M Goldhaber, A Renez, J Salinas

1630h EGC04416L Multi-scale geochemical mapping of soils: Natural and anthropogenic patterns from the national to the local scale: J Chiprès, J Salinas, J Castro-Larragotia, F Diaz-Barriga, I Razo, S Gamino, M Monroy

1645h EGC04417L Spatial patterns of natural variation, anthropogenic impact, and chemical reactivity in Dutch soils: J Spijker, G Van Der Veen, G Moll

1700h EGC04418L Geochemical environment characterisation of Sardinia: V Paolo, A Marcello, S Pretti

1715h EGC04419L Low-density, continental-scale geochemical mapping: Are the resulting geochemical patterns robust?: D Smith, C Reimann

EGC04420P Biogeochemical prospecting at Khetry Copper Deposit of Rajasthan, India: S Trivedi Kumar

EGC04421P Northern Europe Geochemistry (NEG) Project – Assessment of Environmental status: O Tomilina, V Chekushin, R Salminen, K Lax, C Reimann, V Gregorauerkiene, V Petersell, A Gilucis, N Guljaeva

EGC04422P Northern Europe geochemistry (NEG) project – Map of ore related anomalous geochemical fields of fennoscandian shield and it’s eastern frame at the scale of 1: 5 000 000: V Chekushin, L Selenok, L

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Saturday 0830h

EGC-04 Geochemical mapping from the global to the local scale: The Arthur Darlney Symposium

0845h EGC04401L From geochemical prospecting to international geochemical mapping: A historical overview: C Reimann, R Garrett, D Smith, X Xie

0900h EGC04402L The national geochemical survey of Australia: Outline and update: P de Caritat, I Lambert

0930h EGC04403L Geochemical atlas of Colombia, exploring the Colombian territory: G Prieto, L Gonzalez, O Vargas, G Garcia

0945h EGC04404L Geochemical baseline project: A preliminary result from cell N06E04, southern Nigeria: O Ogedengbe, T Ariskeola, E Ayoade, S Malomo, A Abimbola

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Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.

EGC04423P Recent results from a geochemical survey in the New South Wales part of the Thomson Orogen in Australia: Implications for mineral exploration: M Lech, P Caritat de

EGC04424P Indications of deposits of gold and platinum group elements from a regional geochemical stream sediment survey in north-western Tanzania: R Salminen, J Kashabany, V Myunumbila, F Petro, M Partanen

EGC04425P Application of a risk assessment method on European wide geochemical baseline data: S Rapant, R Salminen, T Tarvainen, K Krcmova, V Cveckova

EGC04426P Geochemical investigation of radon in soil within the igneous-sedimentary complex of southern Serbia – ecological significance: V Gordanic, A Cricic, D Jovanovic

EGC04427P The environmental geochemical atlas of the Natural Park of Nehrodi (Sicily, Italy): A Cosenza, S Albanese, D Civitillo, B de Vivo, A Lima, E Macaione, A Messina

Saturday 0830h

EGC-07 Frontiers of stable isotope analysis for environmental science and biogeochemistry

0830h EGC07401L Stable silicon isotopes as a tracer for Late Quaternary changes in the continental biogeochemical cycle of Si: F Street-Perrott, P Barker, M Leng, M Wooller, K Ficken

0900h EGC07402L Lead isotopes as a tool for tracing the contamination in soils and stream sediments affected by mining and smelting industry: V Ettler, M Mihaljevic, M Komarek, O Sebek

0915h EGC07403L Heavy metals and Pb isotopic compositions of aquatic organisms in the pearl river estuary, south China: X Li, C Ip, G Zhang, W Zhang, C Wong

0930h EGC07404L Application of Pb isotopic geochemical mapping to establishment of environmental background and pollution sources: X Chang, B Zhu, X Tu

0945h EGC07405L Anthropogenic versus geogenic lead in podzolic soils using lead isotopes: O Saether

1030h EGC07406L Extreme isotope ratios in lakes during a Snowball Earth glaciation: I Fairchild, H Bao, C Spoel, P Wynn

1100h EGC07407L 
13C partition during bacterial ureolysis and formation of CaCO₃: a tool to study CO₂ sequestration: C Millo, S Dupraz, M Ader, B Menez

1115h EGC07409L Stable isotope ratios of chemically separated carbon forms in ²³⁴⁰pb-dated peat monoliths: Role of temperature and wetness: M Novak, E Prechova, I Jackova, F Buzek, P Pacherova, M Adamova

1130h EGC07410L The sulfur isotope composition of tin-silver-polymetallic deposits of Verkhoyansk folded belt (Sakha-Yakutia, Russia): E Anikina, N Bortnikov, G Gamyanin

1145h EGC07411L Carbon isotope mass balance modelling of atmospheric vs. oceanic CO₂: T Segalstad

EGC07412P Geochemical study of soils and isotopic lead from littoral Domizio-Flegreo, Italy: G Grezzi, R Ayuso, B De Vivo, A Lima

EGC07413P Hydrogeochemical and stable isotope characteristics of the River Idrizija (Slovenia), the boundary watershed between the Adriatic and black seas: T Kandu, D Kocman, N Ogrič

EGC07414P Isotope component characteristics of groundwater in the area of Suzhou, Wuxi and Changzhou, China: Y Jiang, J Jia, N Xu, X Kang

EGC07415P Lead isotope composition as atmospheric pollutant tracer in an urban system: São Paulo city – Brazil: S Gioia, M Babinski, A Kerr, T Veríssimo

EGC07416P Pb isotopes patterns in sediments from Rio de Janeiro State (Brazil): Evidence of anthropogenic sources: M Geraldes, M Babinski, K Mansur, C Valeriano

EGC07417P The effect of atmospheric lead deposition on Pb concentrations and isotope ratios in spruce tree rings (Black Triangle, Central Europe): M Novak, J Kosler, M Krachler, E Prechova, J Mikova

EGC07418P The use of S, Pb and Fe isotopes to study the dynamics of groundwater movement in the vicinity of a toxic industrial waste repository on granite bedrock: M Novak, L Erbanova, I Jackova, P Pacherova, F Buzek

Saturday 0830h

EID-05 Mantle petrology

0830h EID05401L Advances in mantle geochronology: N Pearson, S O’Reilly, W Griffin, O Alard

0900h EID05402L The chlorine isotopic composition of mantle endmembers: T John, G Layne, K Haase

0915h EID05403L Petrology of peridotite xenoliths from Calatrava (Spain): New insights on the genesis of Fe-rich mantle domains: G Bianchini, I Beccaluva, C Bonadiman, G Pearson, F Siena, M Wilson

0930h EID05404L Continental spinel-peridotites from northern Victoria Land (Antarctica): relationships between oxidation state of upper mantle and metasomatism: C Perinelli, G Andreozzi, P Armienti, A Conte, G Giuli, S Eckhout

0945h EID05405L Mantle xenoliths from intracratic eastern Paraguay (south America latform) and andean domain: A comparison: P Comin-Chiamonti, F Lucassen, A De Min, C B. Gomes

1030h EID05406L Petrological-thermomechanical modeling of subducting slab dynamics: T Gerya, Y Mishin, J Connolly

1100h EID05407L The importance of self-consistently calculated mineralogy and petrology on the thermo-chemical evolution of the mantle as predicted by numerical simulations of mantle convection and plate tectonics: P Tackley, T Nakagawa, F Deschamps, J Connolly
1115h EID05408L Mantle petrology and geodynamics: Insights from the Lanzo peridotites: G Piccardo
1130h EID05409L Origin and evolution of garnet pyroxenite xenoliths from the Bakony – Balaton highland volcanic field, western Hungary: E Bali, K Torok, C Szabo
1145h EID05410L Re-fertilisation process in mantle xenoliths from Eastern Transylvanian Basin: B Faccini, M Poltorti, C Bonadiman, T Ntaflo, I Seghedi, S Harangi
1400h EID05411L Ultra-refractory mantle in the oceanic domain: E Neumann, N Simon
1430h EID05412L Ancient ultra-slow spreading peridotites in the Alpine-Apennine ophiolites: G Piccardo, E Nakamura, N Shimizu, R Vannucci, L Guarnieri, M Padovano
1445h EID05413L The composite xenoliths from Spitzbergen: Evidence of the circulation of MORB-related melts within the upper mantle: M Gregoire, J Chevet, S Maaløe
1500h EID05414L Petrology of mantle xenoliths and water determination in NAMS from Subei basin (central-eastern China): Y Hao, M Poltorti, C Bonadiman, L Dallai, B Faccini, Q Xia
1515h EID05415L Petrological study of mantle xenoliths in alkali basalts, South Korea: H Lee
1600h EID05416L Compositional variations in the continental lithosphere constrained by non-geochemical data: I Artemieva
1630h EID05417L Isotopic evidence for chaotic imprint in upper mantle heterogeneity: P Armienti, D Gasperini
1645h EID05418L Upper mantle eclogite and peridotite paleogeotherms: S Simakov
1700h EID05419L Magma underplating and Hannuoba present crust-mantle transitional zone composition: Xenolith petrological and geochemical evidences: Q Fan, J Su, N Li, Q Sun
1715h EID05420L The intraplate alkaline-basaltic volcanism of arctic shelf and continental margin of North-East Asia: V Sakho, A Surnin
    EID05421P Iron content of magmatic rocks as a marker of mantle heterogeneity: A Pilchin, L Eppelbaum
    EID05422P Some causes of initial mantle heterogeneity: A Pilchin, L Eppelbaum
    EID05423P Textural and fabric implications of peridotite xenoliths in basaltic rocks from Jeju island, South Korea: J Yu, K Yang, B Nam, G Falus, K Hidas, B Hwang, C Szabo
    EID05424P Water in Mid-Atlantic Ridge peridotite: Results from ODP/IODP-Legs 153 and 209: E Schmädicke, J Gose, A Beran
    EID05425P Cumulus processes in the upper mantle of northern Victoria Land (Antarctica): implications for the thermal evolution of sub-continentaephosphorus: C Perinelli, P Armienti
    EID05426P The Iherzolite-websterite xenolith suite from Northern Patagonia (Argentina): Evidence of mantle-melt reaction processes: C Dantas, M Gregoire, J Cottin

EID05427P Plagioclase-spinel 5-phase iherzolite from Mount Morning, Antarctica: Oxidation state and trace element geochemistry of shallow mantle from a continental rift: A Martin, A Cooper, M Palin, C McCammon
EID05428P The magmatic genesis, geochemistry and tectonic setting of western Avaj Area Gabbrons: R Mohammadi
EID05429P The Avachan peridotite xenolith suite from Kamchatka arc as a window to sub-volcanic front mantle processes: S Arai, S Ishimaru

Saturday 0800h
EUR-17 4-D topography evolution in Europe: Uplift, subsidence and sea level change (TOPO-EUROPE)
0800h EUR17401L Topo-Europe: The geoscience of coupled deep Earth and surface processes: S Cloetingh
0815h EUR17402L EuCRUST-07 as a basis for a new model of the European lithosphere: M Tesauro, M Kaban, S Cloetingh
0830h EUR17403L Thermo-mechanical models for coupled lithosphere-surface processes: E Burov
0900h EUR17404L Assessment of the deep structure of the lithosphere beneath the Iberian Peninsula: The IBERARRAY seismic platform: R Carbonell, A Pazos, J Morales, J Garcia-Lobon, D Cordoba, J Pulgar, J Diaz, A Villaseñor, J Gallart
1030h EUR17405L Lithospheric structure of the southern Scandes and Oslo Graben: Results from MAGNUS-REX, new crustal scale refraction profiling of southern Norway: W Stratford, H Thybo, J Faleide, Ø Olesen, A Tryggvason
1100h EUR17406L Landforms and uplift, the Scandinavian example: K Lidmar-Bergström, J Bonow, P Japsen
1115h EUR17407L Sea-level changes, tectonism, and climate: What are the controlling factors in filling the eastern North Sea Basin during the Neogene: E Rasmussen, K Dybkjaer, S Piasecki
1130h EUR17408L Active tectonics of Georgia (Caucasus): S Adamia, N Sadradze, E Tsereteli, N Tsereteli, O Varazanashvili
1145h EUR17409L Stepwise landforms and Quaternary episodic uplifts of mountains around Xining basin, Fenwei graben system, northern China: S Zhang

Saturday 0800h
GEP-16 Improved understanding of the clastic reservoirs through the use of new technologies
0800h GEP16401L Refined lithological classification through structured multivariate analysis: K Brandsegg, E Hammer, R Sinding-Larsen

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium's oral presentations.
Saturday 0830h

GEP-17 Unconventional gas – coalsed, shale, and tight gas-sands gases

0830h GEP17401L Australia the new global benchmark producer in the coaled methane industry: D Mathew

0900h GEP17402L CBM development in China: G Liu

0915h GEP17403L Coalbed methane resources of the Appalachian Basin, eastern USA: R Milici

0930h GEP17404L Coalbed methane development in Canada: challenges and opportunities: M Taylor, M Bustin, B Hancock, R Solinger

0945h GEP17405L Coalbed methane generation in a biogenic system: Insights from the Illinois basin: M Mastalerz

1030h GEP17406L Gas saturation: Controls and uncertainty in biogenically-derived coalbed methane, examples from New Zealand coal fields: T Moore, T Mares, C Butland

1045h GEP17407L Coalced methane in Australia: Diverse gas sources and geological settings of the major producing fields: M Faiz

1100h GEP17408L Geologic and hydrologic characteristics of North American coal-bearing basins with biogenic gas accumulations: P Warwick, R Flores

1115h GEP17409L Untapped coalbed methane resources in the Philippines: R Flores, R Pendon, G Stricker, A Rasdas

1130h GEP17410L Distribution and controls on microbial methane generation in fractured organic-rich shales: J McIntosh, S Osborn, M Schlegel

1400h GEP17411L Organic-rich shales as important, potentially prolific unconventional petroleum reservoirs – the US experience: N Fishman, R Hill

1430h GEP17412L Unconventional gas systems in China: J Zhang, B Xu, H Nie, X Tang

1445h GEP17413L Tight gas potential in Indian sedimentary basins: R Misra

1500h GEP17414L The mechanism of permain shanxi tight reservoir of Changhe gas field – Ordos basin: X Zhang, D Zhong, B Gong, H Deng, L Li

1600h GEP17415L Tight gas reservoirs, offshore southeast Korea: B Son

1615h GEP17416L Structural diagenesis: Fracture opening and sealing processes: S Laubach

1630h GEP17417L The heavy oil resource of the Partitioned Zone (PZ), Saudi Arabia and Kuwait: W Meddagh, D Barge

1645h GEP17418L The role of oil shale in the future of hydrocarbon production: J Boak, D Nummedal, Y Bartov

GEP17419P Coalbed methane potential of Paraná Basin coals, Brazil – Results from test well CBM001-ST-RS: W Kalkreuth, M Holz, J Casagrande, T Oliveira, M Kern, J Lewandowski, A Busch, B Krooss

GEP17420P Source rock characterization and petroleum systems of Eocene Tyee basin, southern Oregon Coast range, USA: I Ryu, J Hee-Jung, S Ryu

GEP17421P Element contents and organic matter -element relations for the oil shale deposits in NW Anatolia: A statistical assessment: R Kara-Gülbaş, S Korkmaz

GEP17422P New potentialities for hydrocarbon resources increase due to unconventional deposits: I Balanyuk, A Dmitrievsky

GEP17423P Carbon isotope fractionation mechanism and influencing factors of coalbed methane: L Duan

Saturday 0830h

GEP-20 Outcrop studies: Fundamental to petroleum reservoir characterization and modeling

GEP20401P Outcrop study of the South Caspian Pliocene HC production unit: Basinward environmental changes and reservoir characterization: N Huseynova
GEP20402P Multi-scale modelling of the Lourinhã Fm, Lusitanian Basin, Portugal: An outcrop analogue for the Statfjord Fm, Norwegian North Sea: K Keogh, S Leary, A Taylor, S Gowland, A Martinius, I Viste

GEP20403P Sedimentology and geomodelling of small scale fluvial architecture from the Lourinhã formation, Portugal: A Ekeland, N Pedersen, J Howell, W Nemec, K Keogh

GEP20404P Poroperm signatures of Upper Cretaceous carbonate slope deposits: G Sælen, A Sande, P Svendsen, I Grunnaleite, N Jensen, L Spalluto, M Talbot, G Osso, N Paoli

GEP20405P Reservoir characterization of upper cretaceous megabreccias; Examples from outcrops of the monte Sant’Angelo megabreccia, gargano: G Sælen, P Svendsen, I Grunnaleite, A Sande, N Jensen, L Spalluto, M Talbot, G Osso, N Paoli

GEP20406P Complexity in low-accommodation coarse-grained deltas deposited in tectonically active basins: B Leren, J Howell, A Martinius

GEP20407P Integration of multiple outcrop data into 3D carbonate reservoir models: I Grunnaleite, G Sælen, N Jensen, M Talbot, B Larsen, P Gutteridge, S Buckley, K Soltev, T Johansen, A Siahana, H Elvebak, G Osso

GEP20408P Fractured carbonate reservoirs: Field observations, numerical models, and permeability development: B Larsen, I Grunnaleite, A Gudmundsson

GEP20409P Field studies and modelling of rock-fracture apertures: T Simmenes, A Gudmundsson, S Kusumoto, S Philip

Saturday 0830h
GSS-01 General contributions to soil science
0830h GSS01401L Environmental Indicators for Italian Soils (SIAS project): development of a new approach from regional to harmonised national data: I Rischia, M Di Legnino, F Fumanti, P Giandon, S Obber, I Rischia, I Vinci

0845h GSS01402L From rock to soil: Geochemical relations and changes in low mountainous and hill area: S Chen, A Zhukovskaya

0900h GSS01403L Climatic control on the soil properties: A case study on the soils developed upon Deccan flood basalts, India: E Khan, G Wagh, M Sayyed

0915h GSS01404L Holocene climatic variability effects on the geoenvironmental evolution of the Terni basin, Central Italy: M Bertacchini

0930h GSS01405L The erosion in geological formations of Albania: A Serjani, B Koci

0945h GSS01406L Probable genesis and depositional process of the coastal ochre sands of Lebanon: G El Kaireh

1030h GSS01407L The oldest laterite on Earth? Paleoproterozoic low-latitude lateritic weathering profile from Botswana: K Yamaguchi

1045h GSS01408L Calibrating denudation chronology through 40Ar/39Ar weathering geochronology: P Vasconcelos, I Carmo

1100h GSS01409L Formation mechanism of bole beds of Deccan Traps, Gujarat, India: S Sarkar, A Sarkar, S Bhattacharya, P Sanjay

1115h GSS01410L Re-weathering of deep weathering profiles: P Vasconcelos, H Monteiro, K Farley, C Spier

1130h GSS01411L Studying the role of soil parent rocks from an agriculture point of view: B Kerek, I Szentpetery, L Kuti, J Vatai, J Kalmar

1145h GSS01412L A geochemical case study of Arsenic-tainted paddy soils in Guanu, Taipei, Taiwan: S Lin, T Chang, M Wang, G Shyu, P Yao

GSS01413P Study on strain-softening behavior of over-consolidated clay by Ring Shear Tests: Y Hong

GSS01414P Evaluation sensitivity classification of rock units to erosion in the Anzali Basin, North-Iran: K Khakar

GSS01415P On computation of associated green’s tensor and wave propagation in the random granular elastic medium: R Bhattacharya

GSS01416P Implications of historic soil pollution for floodplain renaturation concepts: T Raab, K Hürkm, J Völkel, O Bens, R Hüttl

GSS01417P The process of clay soil formation in the presence of organic substance: N Kuten, D Zdobi

GSS01418P Influence of geological factors on soil forming and morphology in coastal Lowland, Latvia: R Kasparinskis, O Nikodemus, V Zelchs

GSS01419P Heavy metals distribution in lasi and the surrounding areas in relation with land use and the soil cover: O Iancu, C Secu, L Apostoae, N Buzgar

GSS01420P Rare earth element patterns in the regolith: Clues to weathering history: K McQueen

GSS01421P A new indicator concerning the cadmium mobility in soil: N Rizea, R Lazar, V Stroe, M Aldea

GSS01422P Mercury contents in the upper horizon of soils from the surroundings of lassy municipality: M Lungu, M Aldea, O Iancu, N Buzgar

Saturday 0800h
HPF-01 General contributions to paleontology and historical geology – Part 2
0800h HPF01425L Benthonic foraminiferal diversity and residue abundance patterns in the Globigerina ooze of the Catapsydrax stainforthi Zone, Cipero Formation, Trinidad, west indies: B Wilson

0815h HPF01426L Comparative anatomy of seep carbonates in Japanese neogene muddy slope facies: Light on vesicomid bivalve radiation: T Nobuhara

0830h HPF01427L Middle miocene fossil malacoforma and palaeoecology of san andres island (colombian caribbean): G Patarroyo Camargo, J Geister, I. Petter David

0845h HPF01428L Stratigraphic Subdivision of the Cenozoic carbonate formations of Lebanon using the Nanofossil technique: M Mroueh, C Muller, E Barrier, C Homberg, G Aoun, H Jaafar, W Hamdan, F Hijazi

0900h HPF01429L Taxonomy of badenian (middle miocene) foraminifera from the western part of the pannonian basin (Slovenia): O Katarna

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.
0915h HPF01430L The Upper Miocene flora and vegetation of Western Dacian Basin: V Paraschiv
0930h HPF01431L Recent microorganisms of the Colombian Caribbean: An approach from the shelf to the slope: F Fiorini, K León Palma, V Torres Torres, J Flores
0945h HPF01432L Development of Devonian Tabulate corals in Timian-Notchern Ural region: V Lukin

Saturday 0830h
HPF-09 Marine and non-marine Jurassic; Global correlation and major geological events
0830h HPF09401L The Jurassic of Scandinavia: V Vajda, G Peter
0900h HPF09402L Palynological evidence of synchronous changes within the terrestrial and marine realm at the Triassic/Jurassic boundary (Csővár section, Hungary): A Götz, K Ruckwied, J Pálfi, J Haas
0915h HPF09403L A new U-Pb zircon age for an ash layer at the Bathonian-Callovian boundary: S Kamo, A Riccardi
0930h HPF09404L The water column dynamic in response to the environmental perturbations at the Triassic/Jurassic boundary: M Clemence, G Paris, A Bartolini, S Gardin, V Beaumont, K Page, J Guex
1030h HPF09405L Non-marine-marine correlation of the Australasian Jurassic: J Raine
1100h HPF09406L The Upper Jurassic-Lowermost Cretaceous series of Northern Tunisia: A chronostratigraphic and palaeogeographical synthesis: M Bougdhiri, M Ben Ismail, M Soussi, H Sallouhi, S Haddad, K Maalaoui
1115h HPF09407L Composition and palaeoecological characteristic of archostematan fauna from the late Mesozoic in northeast China: D Ren, Y Zhao, J Liu
1130h HPF09408L Permian to Jurassic climatic oscillations in the Eastern Asian continental margin: Palaeontological and isotope evidences: Y Zakharov, J Sha, S Shorochova, E Volynets, A Popov, A Biakow, T Punina
1145h HPF09409L Liau-Dogger tectono-sedimentary event in Central High-Atlas, Morocco: E Chellai
1400h HPF09410L Marine and terrestrial Jurassic system of China: J Sha, Y Pan, H Cai, Y Wang, X Zhang
1430h HPF09411L Potential for a fish biostratigraphy for Jurassic marine/non-marine correlation: S Turner
1445h HPF09412L Taphonomic features of Middle Jurassic vertebrates locality Berezovskiy Razrez: S Ivanstov
1500h HPF09413L Biostratigraphy allows to place the hispanic corridor across the Gulf of Mexico during its triple junction origin: J Rueda-Gaxiola
1515h HPF09414L Foundations and methods of creation of parallel zone Mesozoic scales on parastratigraphic groups (on an example of Jurassic scales of Siberia on macrobenthos): B Shurygin
HPF09415P Tithonian foraminifers of the Western Caucasus and the adjacent territories: Stratigraphical and paleobiogeographical aspects: V Vuk

Saturday 0830h
HPF-12 Environmental micropaleontology: Past, Present, future – Part 2
0830h HPF12406L Development of the Cretaceous-Paleogene Radiolarians: V Vishnevskaya
0845h HPF12407L Environmental development of radiolarians: Past and present: M Afanasieva, E Amon
0900h HPF12408L Lithostratigraphy and microbiostratigraphy of the Ruteh Formation in Northwest of Khur, Central Alborz, North Iran: M Mahdavi, S Vaziri
0915h HPF12409L High rank taxa of Radiolaria-Polyphystina and bioindication of paleoenvironment: S Kruglikova
0930h HPF12410L Oligocene larger foraminifera from the United Arab Emirates, the Sultanate of Oman and Northern Western Desert, Egypt: O Abdelghany, M Boukhary, Y Hussein-Kamel, S Bahr, M Abdelraouf, A Alsayigh
0945h HPF12411L Main factors influencing the foraminiferal response in a polluted site and in the reference area: E Romano, L Bergamin, M Celia Magno, G Pierfranceschi, F Ventii, M Gabellini
1030h HPF12412L New Upper Triassic foraminifers of Sambosan Accretionary Complex (Japan): A tool for sedimentological and paleobiogeographic understanding of the Panthalassian Ocean: J Chabrais, R Martin, S Rigaud, E Samankassou, T Onoue, S Hiroyoshi
1045h HPF12413L First occurrence of remarkable foraminiferal associations in the Martin Bridge Formation (Carnian-Norian), Wallowa terrane, NW United States: S Rigaud, R Martin, J Chabrais, G Stanley Jr., E Samankassou
1100h HPF12414L Lithofacies and microbiofacies (foraminifers and radiolarians) of the Surmaq Formation in Hambast valley, Abadeh area, central Iran: M Haji Motamed Altojari, S Vaziri
1115h HPF12415L Foraminiferal morphgroups and sea-level changes in Jurassic shelf deposits of Svilbard (Arctic Realm): M Reolod, S Hess, J Nagy
1130h HPF12416L Important diatoms of the mangrove ecosystem, Qeshm island (Persian gulf): M Sohrabi-Mollayousefi
1145h HPF12417L Dinoflagellate cysts as indicators of cultural eutrophication in coastal waters: B Dale

Saturday 0830h
HPF-17 Trace fossils – ichnological concepts and methods
0830h HPF17401L Deep-Sea evolution reflected by trace fossils: A Seilacher
0900h HPF17402L Middle to Upper Triassic deep-water trace fossils from the Ashin Formation, Nakhilak area, Central Iran: S Vaziri, F Fürsich
0915h HPF17403L Ichnoassociation: A useful concept in Ichnology: J Gamez Vintaned, E Mayoral, F Muniz, E Linan
0930h HPF17404L The early roots of ichnology: Aldrovandi’s studies in the 16th century: A Baucon

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0945h HPF17405L Ichnological methods as tool in reservoir characterisation: **D Knaust**

1030h HPF17406L An integrated ichnological-sedimentological model of shoreface and deltaic successions: **S Pemberton, J MacEachern, K Bann, M Gingras**

1100h HPF17407L Ichnofabrics as evidence of depositional dynamics on a prograding carbonate wedge: An example from the Pleistocene of Rhodes, Greece: **J Nielsen, J Nielsen, S Helama, R Worthington**

1115h HPF17408L High-resolution track-beded stratigraphy of carbonate tidal flat deposits in the Triassic Germanic Basin of central Europe – millions of reptile tracks as tool for palaeogeographic reconstructions: **C Diedrich**

1130h HPF17409L Feeding traces of the Ediacaran animals: **A Ivantsov**

1145h HPF17410L Burrowing behaviour of Euzonus in response to beach morphodynamics: Implications for palaeoecology of the trace fossil Macaronichnus segregatus: **K Seike**

1400h HPF17411L Continental Ichnology: Conceptual framework and prospects: **L Buatois**

1430h HPF17412L Ichnotaxa for bite traces of tetrapods: A new area of research or a total waste of time?: **R Bromley, A Jacobsen**

1445h HPF17413L Burrowing armored worms: Machaeridians: **J Vinther**

1500h HPF17414L Ethological structures: Another approach to Ichnology: **J Gamez Vintane, E Linan**

1515h HPF17415L Anthrapology of trace fossils: Behaviours beyond myths: **C Neto de Carvalho, A Baucon, E Chambino**

**HPF17416P Ichnology of Tertiary deposits from the Lake district, southwestern Turkey: Sedimentation dynamics and oxygenation:** M Gormus, J Nielsen, K Uysal

**HPF17417P Characterisation of a Campanian deep-sea fan system in the Norwegian sea by means of ichnologies:** D Knaust

**HPF17418P Exceptionally preserved benthic organisms and their traces from a middle triassic (Muschelkalk) mud flat of Germany:** D Knaust

**HPF17419P Trace fossils of crustacean origin as indicators of ecological maturity and glacial-to-nonglacial transition in lacustrine varves: A case study from the late Pleistocene of New England, U.S.A.: R Knecht, J Benner, J Ridge**

**HPF17420P Shallow-marine trace fossils from the Upper Ordovician of the Ringerike area, Oslo region, Norway:** N Hanken, A Uchman, J Nielsen, S Olausson, T Eggebo, R Steinsland

**HPF17421P What is the impact of ichnology on popular science?: A Baucon, C Carvalho**

**HPF17422P Pramollo: A fluvio-marine ichnolagerstätte from the Carnic Alps (Carboniferous, Italy-Austria): A Baucon, C Carvalho**

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**Saturday 0830h**

**HPS-07 Pliocene-Pleistocene correlations and global change**

0845h HPS07401L Siberian mammoths, climate, and the Pleistocene extinction: **P Nikolskiy**

0900h HPS07402L Adaptation, migration, extinction of biota as response to climate change: **D Magri**

0915h HPS07403L Changes of the environment in the central Asia reconstructed from deep sedimentary records obtained from Lake Baikal: **M Kuzmin**

0930h HPS07404L Lake baikal, a continental archive registering the pliocene climate change: **H Oberhansli**

0945h HPS07405L Paleoclimate record from Lake Baikal: A link between marine and terrestrial Plio-Pleistocene stratigraphies: **A Prokopenko, G Khursevich, E Bezrukova, L Hinno, M Kuzmin**

1030h HPS07406L Progress in palynology of the Gelasian-Calabrian stages in Europe: Recognising trends, cycles and events: **S Leroy**

1045h HPS07407L Plio-Pleistocene climate history over north-central China: Records from loess deposits: **Z Ding, S Yang**

1100h HPS07408L Quaternary stratigraphy and ice cores: **G Orrombelli, V Maggi, B Delmonte**

1115h HPS07409L Antarctic climate evolution during the Quaternary (last 2.6 Ma) from continental margin, Southern Ocean and ice core records: **T Naish, E Wolff, L Carter, R McKay, R Powell**

1130h HPS07410L Pliocene oxygen isotope records of the onset of Northern hemisphere glaciation and the origin of Quaternary-style climates: **M Sarnthein**

1145h HPS07411L Pliocene changes in mediterranean inflow water before and after Gibraltar: **N Khelifi, M Sarnthein, M Frank, M Weinelt, N Andersen, D Garbe-Schönberg**

1400h HPS07412L Constraining the Plio-Pleistocene stratigraphy of the lomonosov ridge, central Arctic Ocean: **M Oregan, J King, J Backman, J Martin, H Palike, K Moran, H Clifford, T Sakamoto, T Cronin, J Richard**

1415h HPS07413L Louis Agassiz and the theory of the ice ages: **J Clague**

1430h HPS07414L The case for the undecapitated Neogene: **F Hilgen, M Aubry, B Berggren, B McGowran, J Van Couvering, F Steininger**

1445h HPS07415L The Quaternary: It's character and definition: **M Head, P Gibbard, S Amos**

1500h HPS07416L The Plio-Pleistocene marriage of magnetostratigraphy and cyclostratigraphy: **C Langereis, F Hilgen**

1515h HPS07417L On the Neogene-Quaternary database: **L Lourens**

1600h HPS07418L Where is the base of the Quaternary?: **B Pillans**

1615h HPS07419L The Early – Middle Pleistocene Transition: Characterization and proposed guide for the defining boundary: **M Head, B Pillans, S Farquhar**

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**Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.**
1630h HPS07420L The ion stage in southern Italy: N Ciarni, A D'Alessandro, A Girone, F Lirer, P Maiorano, M Marino, N Pelosi, L Sagnotti, S Stefanelli, M Brilli, P Macri, A Cascella

1645h HPS07421L Global stages, regional stages or no stages for the Plio/Pleistocene?: B Pilans, M Cita

HPS07422P Climatic and tectonic significance of neogene-quaternary lacustrine diatomites in central Mexico: I Israde-Alcantara, G Victor Hugo, M Wade, R Miguel, B John

HPS07423P Late Pleistocene to Holocene coastal marine terraces and sea level curves derived from 818O proxies: Is the 125 ka high stand the only higher-than-present event?: W Doar, III, C G. St. C. Kendall

HPS07424P Plio-Pleistocene tephrochronology in central Japan: I Tamura, H Yamazaki, K Mizuno

HPS07425P Proposal for Pliocene and Pleistocene land-sea correlation in the Mediterranean area: A Bertini, M Marino, M Palombo, N Ciarni

Saturday 0830h

HYH-06 Groundwater development – experiences from low-income countries, foreign aid projects and disaster relief – a symposium including the UNESCO-IUGS-IGCP project GROWNET – Part 2

0830h HYH06410L USGS firm yield estimator model: Evaluating the influence of small reservoirs on groundwater recharge: M Aliali

0845h HYH06411L Aquifer vulnerability assessments in faulted urban areas. Irapuato and Salamanca Mexico: R Rodriguez, I Rodriguez

0900h HYH06412L Hydrological, hydrochemical and environmental isotope data to characterize the hydrogeology of Lake Awassa catchment, Central Ethiopian Rift Valley, Ethiopia: Z Tessema

0930h HYH06413L Comparison of geophysical signals at success and failed wells in a klondiatic terrain: V Bekkam

1030h HYH06414L Remote sensing and geo-electrical soundings data for the location of suitable ground water zones in vindhyan supergroup compact rock terrain: G Mayachar

1045h HYH06415L Application of combined IP – resistivity soundings for delineation of Aquifers in the Ganga Alluvium – a case study: V Sharma, D Singhal, A Awasthi

Saturday 0830h

IEI-19 Digital standards, security and authentication of web-based database

0830h IEI19401L Data storage on microfilm: Space-saving and stable: P Hayoz

0845h IEI19402L Standardization of digital geological map: Enacted JIS codes for symbols, terms and so on, and the use method: Y Nishioka

0900h IEI19403L Development of G-INDEX based on WebGIS: D Kawabata, Y Murata

0915h IEI19404L Web-GIS system for management and publication of geotechnical survey reports: T Nemoto, F Nakada, R Kouda

0930h IEI19405L The notarization and authentication of geologic information on web-GIS: R Kouda

IEI19406P Virtual node computing pool technology of national geological spatial information grid: C Li, D Yang

IEI19407P Research development of geomatics web-services in national mineral resource assessment: K He, Y Tang, K Xiao, K He

Saturday 0830h

MPE-01 General contributions to experimental petrology and mineralogy in honour of Professor Surendra Saxena

0830h MPE01401L Graphite resistive heated membrane drive diamond anvil cells for in situ determination of EoS, phase transitions and material textures at simultaneous high-pressure and – temperatures: H Liermann, S Sinogelkin, G Shen, S Merkel, L Miyagi, H Wenk, H Cynn, W Evans

0900h MPE01402L Thermal conductivity of iron under conditions of planetary interiors: Z Konopkova, P Lazor, F Tutti

0915h MPE01403L Experimental study of dissolution rates of silicate minerals in water up to 435 °C at pressures of 23 to 333MPa: X Zhang, R Zhang, S Hu

0930h MPE01404L Water molecular spectra of NaCl aqueous solutions at high temperatures and pressures: R Zhang, S Hu, X Zhang

0945h MPE01405L Liquid immiscibility in the fluorine saturated model granite system and the influence of lithium on phase equilibrium: Y Alferyeva, E Gramentskii, T Shchekina

1030h Thermal State of the Earth: S Saxena

MPE01406P Study of the Earth’s deep interior using synchrotron radiation: G Shen

MPE01407P Temperature-induced phase transition in phlogopite revealed by raman spectroscopy: F Tutti, P Lazor

MPE01408P Petrogeochemical characteristics of dyke swarms’ of granulitic terrain, southern karnataka: B Mahadevappa

MPE01409P Stability and crystallization features of tourmaline in hydrothermal solutions: T Setkova, Y Shapovalov, V Balitsky

MPE01410P Experimental study of system peridotite-basalt-volatle with implication for mantle-crust interaction and magma origin: N Gorbachev, D Sultanov

MPE01411P Experimental test of the Cr-in-Cpx geobarometer: P Nimis, I Dencker, P Ulmer

Saturday 0830h

MPI-04 Mafic dyke swarms: A global perspective – Part 2

0830h MPI04408L Magmatic and metamorphic constraints for the petrogenesis of the Jönköping Anorthositic suite: L Brander, J Hogalm

0845h MPI04409L Restoring Proterozoic deformation within the superior craton using mafic dykes: D Evans, H Halls

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.

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0900h MPI04410L Indian dykes – an update: N Chalapathi Rao, R Srivastava
0915h MPI04411L Precambrian mafic dykes in south Indian shield: palaeomagnetism, isotopic dating and geochemical perspective: R Tallavajhala, J Mathew
0945h MPI04412L Synplutonic mafic dykes from late Archaean plutons of the Dhawar craton, southern India: implications for magma chamber processes and crustalization of Archaean crust: J Mudlappa, T Miyazaki
1030h MPI04413L A radiating Paleoproterozoic dyke system in central north America: The marathon large Igneous province: H Halls, D Davis, G Stott, R Ernst, M Hamilton
1100h MPI04414L A 1.78 Ga Large Igneous Province in the North China craton: The north China Dyke Swarm and the Xion’er Volcanic Province: P Peng, M Zhai, R Ernst, J Guo
1130h MPI04415L The subcontinental lithospheric mantle property of the northern Yangtze Craton: Evidence from the Neoproterozoic ultra-mafic-mafic sill swarms in the Suizhou-Zaoyang Belt, southern margin of the Tongbaishan Orogen, central China: H Xue, F Ma
1145h MPI04416L 2965 Ma and 2685 Ma U-Pb baddelyeite ages for two key dolerite dike swarms in the Kaapvaal Craton (South Africa): Plausible links to major volcanic rift forming events: J Olsson, U Söderlund, M Klausen, R Ernst

Saturday 0830h
MPI-07 Alkaline and carbonatite magmatism and related ore deposits
0830h MPI07401L Magmatic and mantle processes in the genesis of the Gardar Alkaline province, south Greenland: B Upton
0900h MPI07402L Development of a ‘transient’ interfacial tension between carbonatite and silicate magmas: Results from numerical modelling: L Valentini, K Moore
0915h MPI07403L Formation conditions of graphite-bearing carbonatites: I Rybachikov, L Kogarko, S Kryvdiľk, V Turkov
0930h MPI07404L Magma compositions and genesis of the alkaline rocks and carbonatites from the Belaya Zima carbonatite complex (Eastern Sayan, Russia): Evidence from melt inclusions: I Andreeva, V Kovalenko
0945h MPI07405L Molten Chagatai carbonatite as a growth medium for diamond and syenogenic carbonate and carbonite minerals (experiment at 8.5 GPa): A Spivak, Y Litvin, F Divaev
1030h MPI07406L Composition and paragenetic relationships of Na-Ca-Nb-Ti-Zr silicate minerals in nepheline syenite pegmatites in the Langesundfjord area, Oslo Rift: T Andersen, M Erambert, A Larsen, R Selbekk
1100h MPI07407L Mesoproterozoic ferrocarbonatite magmatism and related metasomatic processes, Namibia: K Drueppel, S Littmann, R Romer
1115h MPI07408L Melilitites and associated alkaline silica-undersaturated rocks of the Vogtland/W-Bohemia (Germany/Czech Republic): M Abratis, L Viereck-Goette, J Ulrych, D Munsel
1130h MPI07409L Melting relations and diamond synthesis in alkaline peridotite (eclogite)-carbonate carbon melts at 7.0-8.5 GPa – carbonatite model of diamond genesis: A Bobrov, Y Litvin
1145h MPI07410L Carbonatites in Phong Tho, Lai Chau Province, Northwest Vietnam: Their petrogenesis and relationship with Cenozoic Potassic Alkaline magmatism: C Nguyen Trung, F Martin J.F., H Duong The
1400h MPI07411L Pyrochlore composition as a tool for magmatic reconstruction: A Costanzo, A Joao Mateus Bambi, A Olimpio, M Joan Carles
1415h MPI07412L Geochemistry and mantle sources for Archean alkaline rocks from Greenland, the Baltic and Northern Norway: D Zozulya, T Bayanova, N Eby, K Kullerud, E Ravna
1430h MPI07413L CO2 degassing and carbonate-silicate liquid immiscibility as alternative mechanisms of evolution of CO2-rich alkaline melts: Evidence from microinclusions: I Solovova, A Giris, I Ryabchikov
1445h MPI07414L Two mantle sources of kimberlite formation: S Kostrovitsky
1500h MPI07415L Cation-exchange in zeolite crystals: experimental study and geological implications: E Lovskaya
1515h MPI07416L Depleted mantle source of superlarge rare metal deposits from the Kola Peninsula (first data on the Lu-Hf system): L Kogarko, Y Lahaye, G Brey
1600h MPI07417L Identification of multiple carbonatite events in the magmatic history of the Poços de Caldas Massif using the trapped fluid phase: A Costanzo, K Moore, M Feely
1615h MPI07418L Proterozoic alkaline magmatism as a precursor of Paleozoic magmatic events in the north-eastern Fennoscandian Shield: A Arzamastsev
1645h MPI07419L Insight into the “eye of Africa”: G Matton, M Jebrak

MPI07420P About genesis of alkaline rocks of the Ukrainian Shield: K Esipchuk, O Ponomarenko, V Kalinlin
MPI07421P Paleozoic alkaline magmatism of Dniper-Donetsk depression: N Donskoy, N Kompanets
MPI07422P Accessory minerals in the rocks of Khibiny alkaline massif: O Ageeva
MPI07423P Trace elements partitioning in dike rocks and minerals from the Kola Alkaline Province, NW Russia: Basis for magma evolution modelling: A Arzamastsev, F Bea, L Arzamastseva, P Montero
MPI07424P Carbonatites and kimberlite: Space and time interrelations, ore mineralization and its prognostic evaluation: S Belov, A Burmistrov, Â Frolov
MPI07425P Hydrothermal zircons from proterozoic carbonatite tikkiozero massif: B Belyatsky, E Savva, N Rodionov, A Antonov, S Sergeev
MPI07426P Extrusive calcite carbonatite from Catanda, Angola: Magmatic and hydrothermal history from studies of pyroclore: A Costanzo, A João Mateus Bambi, A Olimpio, J Melgarejo, J Manuel, P Alfonso


MPI07428P Mineral chemistry of carbonates bearing Fe-REE deposits in Hongcheon area: H Lee

MPI07429P Geochemistry and mineralogy of alkaline ultramafic, mafic rocks in Northeastern Vietnam: T Nguyen, T Nguyen

MPI07430P Taimyr carbonatite province: P Paderin, O Petrov, V Proskurnin

MPI07431P Within-plate alkaline basaltic magmatism in western Kamchatka: A Perpelev, A Ivanov, M Puzankov

MPI07432P Geodynamic control on the geochemistry of carbonatites and kimberlites: I Rass, I Rass

MPI07433P Geochemical fingerprints of fluid – melt interaction in carbonatites and related alkaline rocks: I Rass, A Gurnis

MPI07434P Yakutian Kimberlites and their diamonds typomorphic features varieties: A Rotman, I Bogush, A Gerasimchuk, O Kovalchuk

MPI07435P Diamonds in carbonatites of Fuerteventura island: T Shimulova

MPI07436P Experimental evidence of carbonatite and sulphide liquid immiscibility at 7.0 – 20.0 GPA: Application forogenesis of the mantle-derived diamond: A Shushkanova, Y Litvin

MPI07437P Graphite-bearing carbonatites from the Gremiakha-Vyrmes massif of the Kola Peninsula: N Sorokhtina, L Kogarko, V Zaytsev, V Sevastyanov

MPI07438P REE-Nb-Zr ores from the Turupya deposit (Northern Urals): O Udoratina

MPI07439P Characteristics of a metasomatized lithospheric mantle: Insight from mica and apatite macrocrysts in lamprophyres: J Woodard, O Eklund, J Boettcher

MPI07440P A Cenozoic alkaline and carbonatite magmatism related to mantle plume at the northeast boundary of Tibetan plateau, China: X YU, X Mo, Z Zhao, G Dong

MPI07441P Evolution of intraplate magmatism of Atlantic ocean: V Zaytsev, L Kogarko

0930h PMP02403L Microimpurities in genetically different quartz varieties and their influence on the degree of purification of raw quartz upon dressing: L Danilevskaya

0945h PMP02404L Properties of cristobalite formation in shock-heated metallurgical quartz: K Aasly, T Malvik, E Myrhaug

1030h PMP02405L Microcharacterization of the defect structure of quartz using cathodoluminescence microanalysis: M Stevens-Kalceff

1100h PMP02406L Radiation-induced hole-like centers in quartz: EPR characterization and theoretical modeling: Y Pan, M Nilges, S Botis, B Hu, R Mashkovtsev

1115h PMP02407L What can we learn from parallel studies of trace element and oxygen isotope zoning in quartz?: A Jourdan, T Vennemann, J Mullis, K Ramsey

1400h PMP02408L Relationships between cathodoluminescence and trace element distribution in hydrothermal quartz: Insights into hydrothermal processes: B Rusk, H Lowers, A Koenig, K Blake

1430h PMP02409L Application of cathodoluminescence and trace element analysis of quartz for understanding ore forming process of the Asachinskoe epithermal gold deposit: R Takahashi, A Muller, A Van den Kerkhof, A Kronz, V Okrugin, H Matsueda

1445h PMP02410L Cathodoluminescent quartz textures in transitional magmatic-hydrothermal systems: A Muller, B Williamson

1500h PMP02411L Petrogenetic significance of trace elements in igneous quartz: R Larsen B., F Jacamom, B Sorensen

1515h PMP02412L Constraining geological conditions for high-purity quartz formation: P Ihlen

1600h PMP02413L Petrogenetic application of quartz research: Metamorphic quartz: A Van den Kerkhof, A Kronz, K Simon

1630h PMP02414L Cathodoluminescence of authigenic quartz: A fingerprint of crystallisation dynamics?: T Goette

1645h PMP02415L Coupled trace element mobilisation and strain softening in quartz during retrograde fluid infiltration in dry granulate protoliths: B Sorensen

1715h PMP02416L Trace element uptake in quartz cement – a function of temperature or fluid characteristics?: K Lehmann, F Driehorst, K Ramseyer, T Pettke, M Wiedenbeck

1718h PMP02417L Geochemical conditions of vein quartz formation of Sinilga gold ore manifestation, bubpolar urals: N Sokerina, Y Simakova

1721h PMP02418L High-quality vein quartz oh hydrothermal deposits in Subpolar Urals: S Kuznetsov, V Lutoev, Y Kotova, S Shanina

1725h PMP02419L High-temperature treatment of quartz concentrate in reducing atmosphere: L Skobel, V Valuev, A Mitrofanov

Saturday 0830h

PM02 Frontiers in quartz research: The genesis, crystal chemistry and economic importance of igneous, metamorphic and hydrothermal SiO2-polymorphs

0830h PMP02401L Chemistry, textures and physical properties of quartz – geological interpretation and technical application: J Götze

0900h PMP02402L Application of quartz in the Ferro-Silicon and silicon metal industry: T Brenden-Veisal

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium's oral presentations.
Saturday 0830h
MRD-13 Ore deposits associated with black shales: from their origin to their environmental impacts
0830h MRD13401L Metalliferous organic-rich black shales: Are exhalative hydrothermal processes fundamental to their genesis?: P Emsbo
0900h MRD13402L Fossil Fe-Mn-oxide chimneys?: M Polgári, A Tóth, M Tóth, T Németh, T Vigh, L Bíró
0915h MRD13403L Chamhir deposit: A sedimentary-exhalative Zn-Pb deposit in Bafq basin, Central Iran: A Rajabi, E Rastad, N Rashidnejad Omran, R Mohammadi Niaei, R Mohammadi Niaei
0930h MRD13404L Sulfur isotope values in the Talvivaara Ni-Cu-Zn and Outokumpu Cu-Co-Zn-Ni-Ag-Au deposits: Evidence for a genetic connection between black shale and sulfide ore: K Loukola-Ruskeeniemi, L Pratt, T Heino, J Hladikova
0945h MRD13405L Markasheh sediment-hosted stratiiform Cu mineralization in the Ravar region, Central Iran: A Mahdavi, E Rastad, M Hosseini Barzi
1030h MRD13406L Re-Os ages of black shale in the glaciogenic Vazante Group: Evidence for Mesoproterozoic ice ages in Brazil?: A Kaufman, N Geboy, R Walker, K Miller, N Sievers, S Poulton, T de Oliveira, A Misi
1100h MRD13407L Carbonaceous tuff-stratiiform barite association in Mangampet deposit, Andhra Pradesh, India: Implications on depositional environment and origin: M Deb, K Bheemalingeswara
1115h MRD13408L The distribution of Cd in sulphides and carbonates from the sediment-hosted Pb-Zn deposit at Jinding, Yunnan province, China: Mining and environmental implications: B Spiro, X Zhang, C Halls, R Herrington, J Spratt
1130h MRD13409L New constraints on the genesis of the Toarcian black shale-related manganese ore deposit, Urukút, Hungary: I Cora, T Weiszburg
MRD13410P Rhenium and PGE in the marine and non-marine organic-rich sediments from Egypt: H Baioumy, B Peucker-Ehrenbrink
MRD13411P Local prediction of large-volume gold deposits in black shales strata using analysis of gold placers and crusts of weathering in their development field: R Rodin, L Gess
MRD13412P Gold-sulphide ores in black slates of the Amantaytau deposit (Uzbekistan): Geology, ore composition, micromineralogical features: A Jukov, M Zavarzina
MRD13413P Mesothermal gold deposits as an ore component of the granite – diorite – dolerite fluid – magmatic complexes: I Kucherenko, R Garivol
MRD13414P High-carbonaceous non-coeval units – complex mineral resources: N Matvienko, F Migursky
MRD13415P Discussion on origin of the witterite deposits in large barium ore belt, southern Qinling Mountains, China: J Liu, Z Liu, W Su, Y Yang, J Wang
MRD13416P A micro-scale study on the Toarcian black shale-related manganese ore deposit, Urkut,
MRD15414P Genesis of mineralized and barren magmatic rocks in the Noril’sk district Likhachev: A Likhachev

MRD15415P REE distribution in the rocks of PGE-bearing east Pana layered massif: E Ibragimova, T Epifanova, O Kazanov

Saturday 0800h
MRD-17 Gold deposits: Reflections of their tectonic environments
0800h MRD17401L Temporal-spatial relationships between tectonism, magmatism, and orogenic gold deposit formation in the north American Cordillera: R Goldfarb
0830h MRD17402L The source of the world’s largest accumulation of gold: H Frimmel, A Zeh
0900h MRD17403L Synchronous vertical and horizontal tectonism at the late stages of Archean cratonicization is an important process for gold mineralization: S Lin
0930h MRD17404L Are epicontinental rift sedimentary basins fertile tectonic environments for gold? reflections on the north-central Nevada gold province: P Emsbo, R Scott, S Bull
1030h MRD17405L The relationship between tectonic setting, magmatism, and chemical characteristics of epithermal ore deposits: J Hedenquist
1045h MRD17406L Characteristics of ore geology and geochemistry of the Weishangench gold-silver-ore belt, Longhai county, China: Implication for metallogenic type: J Zhang, Y Chen, Y Yang
1100h MRD17407L Tectonic environments and distribution of gold deposits in the Pan African Nubian Shield: M Hassaan
1115h MRD17408L Age and tectonic setting of gold mineralisation in the Fennoscandian shield: V Ojala, P Elfu, I Mänttäri
1400h MRD17409L Recognizing the links between tectonics and orogenic gold deposits in northern Eurasia: A Yakubchuk
1430h MRD17410L Fluid flow and gold mineralization beneath ancient and modern collisional mountains: D Craw, P Upton

MRD17411P Gold-bearing veins in transcrustal fault zone in the Transantarctic Mountains (northern Victoria Land, Antarctica): L Crispini, L Federico, G Capponi, F Talarico

MRD17412P Auriferous epochs of the Earth: M Krutoyarskyi

MRD17413P Using a hybrid algorithm for gold prospectivity mapping in NW of Iran: A Jafari Rad

MRD17414P Tectonic of gold-ore deposits associated with collisions in eastern margin of the north Asia craton: V Fridovsky

MRD17415P Terrigenous suites-hosted gold deposits, their types and characteristic features: B Vikhter

MRD17416P Geodynamic settings of gold deposits forming within the Central Kyzylkum region of the southern Tien Shan (western Uzbekistan): J Mikhailova, M Mansurov, S Smirnova

MRD17417P Metallogeny of Uzbekistan on the geodynamic basis: F Usmanov, A Kustarnikova, T Voronich

MRD17418P Gold mineralization within different geotectonic settings during Carboniferous-Permian time – an example from lower Silesia (Poland): S Mikulski

MRD17419P Hydrothermal vs. shear zone gold ores: Are they similar or dissimilar?: S Udubasa, L Petrescu, G Udubasa

Saturday 0830h
0830h OSS03412L Investigating submarine landslides and sediment failures through geotechnical instrumentation, in situ testing and numerical modelling: N Sultan
0900h OSS03413L Logging, sampling and testing for submarine slope stability: E Tervoort
0915h OSS03414L Core-log-seismic integration of mass transport deposits in the shallow subsurface of the Ursa basin, northern Gulf of Mexico: D Sawyer
0930h OSS03415L Pore pressure penetrometers document high overpressure near the seafloor where multiple submarine landslides have occurred on the continental slope, offshore Louisiana, Gulf of Mexico: P Flemings, B Dugan, D Sawyer, J Schneider, H Strong
0945h OSS03416L Factors leading to slope instability in the Ursa Basin, gulf of Mexico continental slope: R Urgeles, J Locat, P Flemings, B Dugan, N Binh, D Sawyer
1030h OSS03417L Seafloor instabilities and sediment transport on the deep and seismically active Ligurian margin (North-Western Mediterranean): A Caffanero, S Migeon, C Larroque, B Mercier de Lépinay, E Euelian, F Sage, M Sosson, N Corradi, Y Le Gonidec, F Fanucci
1045h OSS03418L Using seismic reflection data to investigate free gas in a landslide area: An example from Finneidfjord, Norway: E Morgan, M Vanneste, O Longva, I Lecomte, L Baise, B Mcdoo
1100h OSS03419L Multi-directional simple shear testing of fine-grained marine sediments: C Rutherford, G Bisconti
1115h OSS03420L Numerical simulations of the hinlopen-ermak landslide and possible tsunami, Arctic Ocean: M Vanneste, C Harbitz, F De Blasio, S Glismdal, J Miener, A Elverhøi

Saturday 0830h
PEG-01 Groundwater: reservoir for a thirsty planet
0830h PEG01401L Sustainability of groundwater resources in the north China plain: C Zheng, J Liu
0900h PEG01402L WHYMAP and the map of groundwater resources of the world at the scale of 1: 25 000 000: W Struckmeier, Dr, A Richards
0930h PEG01403L Hydrogeological zoning: From local to global scales: J Van der Gun, Š Vasak, J Reckman
1030h PEG01404L Groundwater in the 21st century – meeting the challenges: K Hiscock

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1100h PEG01405L Solution for integrated management of watersheds and aquifer systems under extreme drought scenarios: J Lobo-Ferreira

1130h PEG01406L Characterization of threats to groundwater: Rural and urban strategies in Benin, west Africa: S Silliman, M Boukari, P Crane, F Azonsi

PEG01407P Arsenic in groundwater - a major challenge towards sustainable use of groundwater as source of drinking water: A Sinha

PEG01408P Integrated water resources management in Yemen: K Albanna

Saturday 0830h

PES-02 The Earth’s Critical Zone and Hydopedology

0830h PES02401L The outcomes of the first international conference on hydopedology: H Lin, D Chittleborough, K Singha, H Vogel, S Mooney

0900h PES02402L SoilCirCZone – towards understanding the life cycle of soils: V Ragnarsdottir, U Mankasingh, N Nikolaidis, S Banwart, J Leake, J Gaillardet, M Novak, P van Gaans, S Rousseva, W Blum, P Aagaard, T White, S Brantley

0930h PES02403L Terrestrial environmental research and geophysics: Quo vadis: H Vereecken

1030h PES02404L Inner space: Biota sense and react to their soil environment: J Crawford, D Grinev, A Spiers, P Dello Sterpaio, Y Iain

1100h PES02405L Soil Infrastructure, Interfaces and Translocation Processes in Inner Space (Soil-it-is): L de Jonge, P Moldrup, P Schjønning

1130h PES02406L Soil landscapes – the need for a new paradigm in soil science: M Sommer

1400h PES02407L Structures and processes of the initial ecosystem development phase in an artificial water catchment: R Hüttl, I Kögel-Knabner, J Zeyer, T Raab

1430h PES02408L Soil moisture spatial-temporal patterns and subsurface preferential flow network at the Shale Hills catchment: H Lin, Z Jun, K Takagi

1500h PES02409L Water infiltration in soil at catchment scale: Consequences for cold-climate regions: J Stolte, H French, C Risetha

1600h PES02410L Hydopedology in stepped hillslopes weathered from Glen Limestone of Lower Cretaceous age: L Wilding, C Woodruff, Jr., B Wilcox

1030h SDD01405L Initial results of magnetic fabric analysis from IODP NanTroSEIZE Expedition 316 (Shallow Maga Splay and frontal thrust): Y Kitamura, X Zhao, T Kanamatsu, Expedition 316 Scientists


1100h SDD01407L IODP expedition 323: Drilling the wilks land continental margin to obtain the record of cenozoic east Antarctic ice sheet evolution: C Esclutia, H Brinbuis, A Cooper, S Ettireim, M Tanahashi, T Ishihara, L De Santis, P O’Brien, E Domack, R Dunbar

1115h SDD01408L Rapid sedimentation drives overpressure and submarine landslides in the deepwater Gulf of Mexico: IODP expedition 308: P Flemings

1145h SDD01409L ANDRILLs drilling success during the 4th International Polar Year (IPY): D Harwood, F Florindo, T Naish, R Powell, R Levy, F Niessen, G Kuhn, A Pyne, F Rack, F Talarico, G Wilson, M Science Team, S Science Team

1400h SDD01410L Advances and challenges in continental scientific drilling: R Emmermann, U Harms

1415h SDD01411L Detection of subsurface stress/strain changes with active source monitoring at the Parkfield SAFOD drill site: P Silver, F Niu, T Daley, E Major

1445h SDD01412L Characterization of gas from seismogenic depths of the San Andreas fault at SAFOD: T Wiersberg, J Erzinger

1500h SDD01413L ICDP FAR-DEEP: field mission accomplished – 3600 m of drillcores from 2500-2000 Ma rocks from Russian Fennoscandia for tracking the emergence of the aerobic Earth System: V Melezhik, A Lepland, N Philippov, A Romashkin, D Rychanchik, Y Deines

1515h SDD01414L The Lake El’gygytgyn drilling project – Objectives and current stage of preparation: O Juschus

1600h SDD01415L Continental deep subduction and exhumation dynamics: Constrains from the main hole of the Chinese continental scientific drilling and the sulu HP-UHP metamorphic terrane: Z Xu, J Yang, Z Zhang, W Yang

1615h SDD01416L Continental scientific drilling and the study of terrestrial impact craters: C Koebel


1645h SDD01418L Projection of mechanical properties from shallow to greater depths: M Ask, J Morgan

1700h SDD01419L Kanto Asperity Project (IODP): General aspect of monitoring of seismicity and crustal movement toward mitigation of great hazards in the Tokyo Megalopolis region: Y Ogawa, R Kobayashi, Y

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.
Yamamoto, M Shishikura, T Nishimura, D Curewitz, W Kanto Asperity Project

SDD01421P Towards an understanding of the evolutionary and environmental history of ancient Lake Ohrid: B Wagner, T Wilke, C Albrecht, A Lotter, G Kostoski, G Daut, S Krastel, J Reed, K Reichert, A Schwalb, R Sulpizio, G Zanchetta, S Trajanovski, H Vogel

SDD01422P The core drilling technique of Chinese continental scientific drilling (CCSD): X Zhang, H Zhang

SDD01423P Coring drilling technique of No. 1 Songke Well (north well) for the Cretaceous period continental scientific drilling in China: Y Zhu, Y Zhang, W Wang

SDD01424P In-depth research of geology is inseparable from the support of advanced drilling technology: H Zhang, X Zhang

SDD01425P The analysis and research of tight hole and control: X Wu, P Sun, J Cai

SDD01426P Elastic-anisotropic properties of some crystalline rocks from the section of the Outokumpu drill hole (OKU): F Gorbatsevich, I Kukkonen, M Kovalskiy, O Trishina

SDD01427P Deep structure and evolution of Pre-Cambrian suture structures (from drilling data of voronezh parametric borehole): V Skryabin, A Kremenetskiy, R Terentiev, T Polyakova, A Alekseeva, V Nenakhov

SDD01428P National strategy of studying the deep zones of continental crust from data of scientific deep and superdeep drilling: A Kremenetskiy, A Alekseeva, S Fedorov, N Militenko, V Gorbatchev

SDD01429P Lake Biwa drilling project: Providing improved paleoclimate variations and island arc tectonics during the past 1 Ma: K Takemura, M Okuda, T Nakagawa, A Hayashida, P Meyers

SDD01430P The MOLE drilling project: Laboratory at depth on an active low-angle normal fault in central Italy: M Cocco, P Montone, M Barchi, G Dresen, M Zoback, M Mariucci, S Pierdominici

SDD01431P The swedish deep drilling program: H Lorenz

SDD01432P Lake Van drilling project ‘PaleoVan’ (ICDP): T Litt, S Krastel, M Sturm, R Kipfer, S Orcen, N Cagatay


SDD01434P Fast access drilling and ice sheet bed sampling: S Vogel, C Bentley, R Powell, A Shtrumakov, S Tulaczyk

SDD01435P An anisotropic velocity model from VSP measurements in the ICDP outokumpu scientific drillhole, Finland: H Schijns, D Schmitt, P Heikininen, I Kukkonen

SDD01436P An active low-angle normal fault in the Northern Apennines (Italy): A possible site for ICDP drilling: M Barchi, F Mirabella, L Chiaraluce, M Cocco, P Montone

SDD01437P Stratagem for current in-situ stress determination in a deep fault zone drilling program: An example from Taiwan Chelungpu-fault drilling project: W Lin, E Yeh, H Ito, H Hung, W Soh

SDD01438P Results from friction experiments on fault zone materials from continental and ocean scientific drilling: A Kopf

SDD01439P Geomechanical model helps to explain unexpected high well productivity offshore Brazil: A Theophilo Silva, C Coelho de Lima, M Faerstein, F Salvini, F Balsini

SDD01440P A new view of the Neogene to Quaternary evolution of the Maldives carbonate platform (Indian ocean): C Hübscher, B Christian, L Thomas, J Reijmer, A Droxler, S Lindhorst

SDD01441P The Greenland-Scotland Ridge needs to be revisited: P Smolka

SDD01442P Hydrogeology from high-resolution stratigraphy at coastal drillhole determined from continuous core profile and borehole geophysics: B Wrange, R Weems, J Ilsley


SDD01444P Application of color coresscanner to digital visual information of drill cores: H Hyun

Saturday 0830h

STP-02 Deducing nature and magnitude of paleoearthquakes: Finding paleoevents and quantifying them – Part 2

0830h STP02409L The geological effects of the 1908 Southern Calabria – Messina earthquake (Southern Italy): V Comerici, A Blumetti, E Brustia, P Di Manna, D Fiorenza, L Guerrieri, M Lucarini, L Serva, E Vittori

0845h STP02410L Aquisgrana terrae motus factus est: Evidence for historical earthquake damage in the Aachen Cathedral (Germany): K Reichertar, A Schaub, C Gruetzner, T Fernandez-Steege

0900h STP02411L Cyclicity in the sedimentary record of a small pull-apart basin as paleoseismic evidence of surface faulting during the Holocene along the Ibagué fault, Colombia: H Diederix, J Osorio, N Montes

0915h STP02412L Paleoseismic evidence for reverse fault activity in relationship with a phreatomagmatic eruption in 1970 at Deception Island (West-Antarctica): R Pérez-López, M Rodríguez-Pascua, M Bejar, J Martinez-Diaz, J Giner-Robles, P Silva, P Villamar, J González-Casado

0930h STP02413L Paleoseismological analysis at a railway trench across an intraplate extensional structure: the Concud fault: P Lafiufente, L Arlegui, C Liesa, J Simón

0945h STP02414L Characterization of earthquake-induced clastic dikes by their magnetic fabric: S Marco, Y Yral, R Weinberger, T Levi, T Aifa

Saturday 0830h

STT-06 Marine and continental fold and thrust belts

0830h STT06401L Thrust-zone localization – the importance of distributed strains and buckling: R Butler
0900h STT06402L Pulsed south-westerly migration of the Zagros deformation front during the Miocene-Recent: Seismic evidence from the Persian Gulf: C Burberry, C Jackson, J Cosgrove, J Liu

0915h STT06403L Structure and evolution of a near-classic thrust and fold belt: The case of the Umbria-Marche Apennines (Central Italy): M Barchi, W Alvarez, D Shimabukuro

0930h STT06404L Comparing structural styles in the Apennines fold-and-thrust belt: constraints from thermal, thermochronometric and structural data: S Corrado, L Aldega, A Ascione, F Botti, W Butler, M D’Errico, C Invernizzi, S Mazzoli, A Pignalosa, M Zattin

0945h STT06405L Geometry and kinematics of thrust sheets in the High Zagros zone at Bakhtyari area, Iran: M Nemati, A Yassaghi, M Kamali

1030h STT06406L Evolution of the alpine-carpathian-dinaric orogenic system: S Schmid

1100h STT06407L A comparison of two orogenic margins: Central Scandinavian Caledonides and western Carpathians: R Greiling, N Oszczykpo

1115h STT06408L Understanding structures of fold and thrust belts using electrical borehole imaging technology. Alpine fore-land, Europe: P Toth

1130h STT06409L Plio-Quaternary folds and blind thrusts along the Algerian margin: Evidence from multibeam bathymetry and seismic reflection survey: P Strzerzynski, A Cattaneo, A Domzig, B Mercier de Lepinay, J Déverchère, K Yelles, R Bracene

1145h STT06410L A model for soft sedimentary, thin-skinned thrust-fault systems: S Pedersen

1400h STT06411L Internal architecture and growth history of a thrust-related anticline in a deep water fold belt: S Higgins, B Clarke, R Davies, J Cartwright

1415h STT06412L Deep-water fold-and-thrust belts in the Amazon deep-sea fan: A Dos Reis, C Guizan Silva, B Vendeveille, P Perovano, C Gorini, E Ferreira, V Albuquerque, R Pederneiras, F de Melo

1430h STT06413L Passive Continental Margin Fold and Thrust Belts: H Leibt, L Jensen, J Thomas

STT06414P Relics of fold-and-thrust structures in zones of intense transpression (Pieniny Klippen Belt, western Carpathians): D Plašienka

STT06415P The geometry and kinematics of a pop-up structure: The Sivas Basin, Central Anatolia, Turkey: H Temiz, A Sagiroglu, K Ersin

STT06416P Anticlockwise rotation of the Central-East Iranian Microcontinent and the Eurasian-Indian collision: S Bagheri

STT06417P Plate tectonics and horizontal tectonic layering of the lithosphere -- _ basic concepts of development of external shells of the Earth (after the example of Mediterranean mobile belt): I Gamkrelidze

STT06418P Late Paleogene-Neogene dextral transpression in the South-Pyrenean zone: J Elez, N López Martínez

STT06419P Deep faults of the eastern Ukrainian carpathians and the adjacent regions: Y Krupsky

STT06420P The limestone breccias at the carboniferous deposits of the pechora ural: A Sandula

STT06421P Mediumfjellet thrust-stack in the Tertiary fold-thrust belt of Spitsbergen; developing an analogue petroleum model: T Larsen, A Braathen, N Schmidt, P Mauries, S Bergh

STT06422P A kinematic, metamorphic and geochronological framework for intracratonic reworking in the western Musgrave Block, central Australia: Evidence for lower crustal channel flow?: T Raimondo, A Collins, M Hand, A Walker-Hallam, H Smithies, P Evins

STT06423P Palaeomagnetic data of the western part of the Trans-Mexican volcanic belt: Tectonic implications: J Rosas-Elguera, A Goguichaisvili, A Alva-Valdivia, J Urrutia-Fucugauchi, R Maciel, M Alatore

STT06424P Construction of 2-d geological cross sections using remotely sensed satellite and airborne data: M Broadley, M Oehler, J Gines, J de Vera

Saturday 0815h

STT-08 Numerical and analogue modelling of deformation – from the micro- to the crustal scale

0815h STT08401L Modelling of stylolites and their use as in-situ palaeo-stress gauges: D Koehn

0845h STT08402L Numerical investigations of particle suspensions: E Jetteussen, D Schmid, M Dabrowski

0900h STT08403L Evolution of large amplitude 3D fold patterns: D Schmid, M Dabrowski, M Krotkiewski

0915h STT08404L Fold interference in constriction induced by curved and faulted boundary conditions: S Sengupa

0930h STT08405L Numerical models of hydrofracture propagation in mechanically layered rocks and comparison with field observations: S Philipp, B Larsen, A Gudmundsson, S Meier, D Reyer

0945h STT08406L Numerical and analogue models of the formation of parallel-dipping normal faults: S Butler, G Schreurs

1030h STT08407L Insights to the distribution of slip directions along normal faults from three-dimensional finite-element models: G Manialis, A Hampel

1045h STT08408L Mechanics of extension above detachment zones: The gulf of corinth case: G Exadaktylos, M Stavropoulou

1100h STT08409L Numerical models of extension and contraction in hot continental crust: S Richardson, K Gessner, K Regenauer-Lieb

1115h STT08410L Role of brittle-ductile coupling in defining the pattern of brittle fracturing: S Schueller, F Gueydan, P Davy

1130h STT08411L A damage rheology for modeling stresses and strain rates in actively deforming tectonic plates: C Hieronymus

1145h STT08412L Numerical modeling on present-day patterns of active faulting in Guangzhou area, China: L Chen, H Li, Y Li

STT08413P Background stress state estimated from the 1996 Lijiang earthquake sequence: Y Zhang, F Xie, S Gross

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.
STT08414P Continental mantle lithosphere heat production and intraplate deformation: S Neves, A Tommasi, A Vauchez

STT08415P Deformation of rock mass caused by strike-slip faulting: 3D analysis of analogue models by helical X-ray computed tomography: K Úeta

STT08416P Kinematic evolution of tectonic wedges using physical and numerical models: L Cruz, G Hilley, A Take

STT08417P Numerical modelling of fluid migration along faults and fractured zones and formation of giant gas deposits: A Dmitrievsky, M Balanyuk, A Zatsepina

STT08418P Structure development around a rigid circular inclusion in an anisotropic host subject to simple shear: M Dabrowski, D Schmid

STT08419P Tectonic styles and deformation analysis in Luiju Copper District, Dayao, Yunnan, China: H Zou, R Han, W Fang, M Liu

Saturday 0830h

UHP-05 General topics of geology, tectonics and petrology of collisional orogenic belts: Implication to UHP-HP metamorphic rocks

0830h UHP05401L What, exactly, is ultra-high-pressure metamorphism?: H Green, L Dobrzynetskaya

0900h UHP05402L Deep root of the continental-continent collision belt: Evidence from the CCSD-MH and the Sulu metamorphic terrane, eastern China: Z Xu, W Yang, Z Zhang, J Yang, S Ji, Q Wang

0930h UHP05403L Basal subduction tectonic erosion (STE) and the construction of HP-UHP metamorphic belts: A new model for the Alps and its comparison with the Maksyutov Complex, southern Urals: M Osmaston

0945h UHP05404L Paleozoic eclogites from within the northern margin of the North China Craton: m zhai, Z NI

1030h UHP05405L Tectonic and exhumation structure of the Kokchetav HP – UHP metamorphic belt (Northern Kazakhstan): Constraints from 40Ar/39Ar geochronology: F Zhimulev, A Travin, J De Grave, M Buslov

1045h UHP05406L Genesis of garnet peridotites in the Sulu UHP belt: Examples from the CCSD-MH, PP1 and PP3 drillholes: J Yang, T Li, S Chen, P Robinson, R Allherr

1100h UHP05407L Omphacite-bearing garnet peridotite from Pohorje, Eastern Alps: Constraints on the protoliths and UHP metamorphism of mantle-derived rocks: M Janak, M Vrabec, N Froitzheim, C de Hoog

1115h UHP05408L Fluids in deeply subducted continental crust: Petrology, mineral chemistry and fluid inclusion of UHP metamorphic veins from the Sulu orogen, eastern China: Z Zhang, K Shen, W Sun, Y Liu, J Liou

1130h UHP05409L Wellbore breakouts of the main borehole of Chinese Continental Scientific Drilling (CCSD) and determination of the present tectonic stress state: C Jun-Wen, W Lian-Ji, L Peng-Wu, T Zhe-Min

1145h UHP05410L Recycled crustal zircon from the upper mantle; evidence from ophiolites: P Robinson, R Trumbull, A Schmitt, S Kostrowski, J Yang, J Erzinger, R Emmermann

1400h UHP05411L Structural geometry of an exhumed UHP terrane and its implication for continental collisional processes: A case study from Yangkou Bay, Sulu orogen: L Wang, T Kusky, S Li

1415h UHP05412L High- to ultra-high pressure partial melting in orogenic belts: Implications for the formation of felsic granulites from the Bohemian Massif: R Nahodziola, S Faryad, P Tropper, J Konzett

1430h UHP05413L Progresses, controversies and challenges of studies on South Altyr Tagh-North Qaidam HP/UHP metamorphic belt, northwestern China: J Zhang

1445h UHP05414L The intrusive nature of quartzites of the Makbal complex, Tien-Shan, Kyrgyzstan: A Bakirov, K Sakiev, M Tagiri, A Takasu

1500h UHP05415L Petrography and evolution of Somdo eclogites, Qinghai-Tibetan plateau: Another possible continental plate subduction belt: T Li, J Yang, Z Li, X Yu, Y Ren, R Wang, W Zhang

1515h UHP05416L The eclogite, blueschist in central Qiangtang, Tibet, China: The record of Triassic subduction belt: Q Zhai, X Xiao, C Li

UHP05417P HP-metamorphic evolution of mafic dikes (Gridino area, Belomorian eclogite province of Fennoscandia shield, Russia): K Dokukina, A Konilov

UHP05418P Preliminary research on Kangjina podiform chromite deposit in Tibet: X Xu, J Yang, d Ba, Q Fang, S Chen, W Bai, H Li

UHP05419P Geochronology of HP-UHP rocks from the South Altyr Tagh, NW China and its tectonic implications: L Liu, W Chao, D Chen

UHP05420P Thin skin tectonics through the entire continental crust in the Dabie Shan, eastern China: W Wu, S Xu, X Yuan, Y Liu

UHP05421P Ilmenite-magnetite exsolution geothermometry and oxygen barometry from the main-hole of the Chinese Continental Scientific Drilling Project (CCSD-MH) and its geological implication: X Qi, Z Xu

UHP05422P The Sumdo eclogite in the Lhasa block: Remains of the Paleo- Tethys Oceean basin?: S Chen, J Yang, T Li, X Xu, Z Li, Y Ren

UHP05423P Genesis of the zonal amphiboles in Wengeqi Ultramafic Complex in Guyang, Inner Mongolia: H Chi, S Su

UHP05424P Exsolutions of diopside and magnetite in olivine from mantle dunite, Luobusa Ophiolite, Tibet: Y Ren, J Yang, F Chen

UHP05425P Mid Jurassic to Eocene multi-phase subduction and metamorphism in the Greek Rhodope: K Krenn, C Bauer, A Proyer, G Hoinkes

UHP05426P Exhumation kinetics of northern Sulu ultrahigh-pressure metamorphic belt, Rongcheng area: Z Cai, Z Xu, Y Yang
Saturday 9 August – Late Morning

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The following symposia begin in this session. Some symposia continue on the next day. Next day presentations may be found in the next day section.

Saturday 1030h
IEI-20 Free and open-source geospatial software: applications in Earth Sciences and recent development
1030h IEI20401L The Generic Mapping Tools (GMT) open source software system: P Wessel
1100h IEI20402L Spatial data infrastructure best practices: A Christl
1115h IEI20403L Supporting marine monitoring activities with help of WebGIS-technologies: R Pesch, W Schröder, A Unruh, L Vetter
1130h IEI20404L Visualization, analysis and management of high-resolution LiDAR topography within a geospatial database framework: M Smith, D Finnegan, K Schmidt
1145h IEI20405L Free and open source geospatial software – a geologist’s point of view: H Lorenz
IEI20406P 3D seismicity maps for Chroma Depth 3D glasses using the generic mapping tools: Y Okamoto
IEI20407P Sharing and disseminating of geoscience information using the open source web GIS software: J Han, K Chi, B Yoo, Y Yeon, J Hwang
IEI20408P Modelling and 3D visualisation of geological data using open-source software: M Tomaszczyk, J Chelminski, L Nowacki, E Szyknaruk
IEI20409P Hierarchical drainage network extraction, management and storage using JGrass, uDig and PostgreSQL-GIS open source softwares: J Busnelli, R Rigon, D Giacomelli, A Antonello, E Ghesla, S Franceschi

Saturday 1030h
STP-03 Paleoseismology for seismic hazard: Constructing paleo-earthquake histories and deducing seismic hazard implications
1030h STP03401L Observations of mode-switching from long paleoseismic records of earthquakes on the San Jacinto and San Andreas faults: Implications for making hazard estimates from short paleoseismic records: T Rockwell
1100h STP03402L Recurrent earthquakes associated with the south-eastern branch of the M8.2 1911 Kemin earthquake (Tien Shan) surface rupture: Paleoseismological evidence: D Delvaux, K Abdurakhmatov, H Havenith, A Strom, E Vittori
1115h STP03403L Paleoseismological analysis of the North Tehran Fault, Iran: Analysing prehistoric ruptures for the past 30.000 ka: H Nazari, J Ritz, S Balescu, M Lamothe, R Salamati, M Talebian, M Ghorashi, A Saidi
1130h STP03404L Evidence of two large seismic gaps in Nepal Himalaya: Potential for future mega earthquakes: B Upreti, Y Kumahara, T Nakata
1145h STP03405L Earthquake hazard and growth of faults around Bam in Eastern Iran: M Talebian, S Tabatabaei, M Fattahi, A Beitolahi, M Ghorashi, H Nazari, M Riahi, A Ghalandarzadeh
1400h STP03406L The role of active (capable) faults in paleoseismicity: L Serva, A Gurpinar
1430h STP03407L Anomalous concentration of rock avalanche deposits at the eastern slope of the Argentinean Andes between 36°-38°S: I Penna, A Folguera, R Hermans
1445h STP03408L Paleoseismic investigation in the Dodoma area, Tanzania: A Macheyeki, D Delvaux, M De Batist, A Mruma
1500h STP03409L Lacustrine sedimentary records as complements to trench paleoseismic investigations: An example along the Bocón fault, north-western Venezuela: C Beck, E Carrillo, F Audemard
1515h STP03410L Migration of fault activity in the southwestern kanto plain, central Japan: H Yamazaki
1600h STP03411L Temporal clustering of surface ruptures on stable continental region faults: A case study from the Cadell Fault scarp, southeastern Australia: D Clark, R Van Disser, M Cupper, C Collins
1615h STP03412L Importance of paleoseismic data for seismic hazard assessment: K Atakan
STP03413P Detection of broad flexural deformation related to blind fault by identifying displaced foreshore deposit in the Ishinomaki Plain, northeastern Japan: M Shishikura, Y Okamura, S Fujino, Y Namegaya, Y Sawai, J Komatsubara, T Aung, T Ishiyma
STP03414P Seismotectonic features of Aegean-Peloponnisos plate and the position of the Fethiyev-Burdur Fault Zone, SW Turkey: F Yagmurlu, N Özgür, S Pavlides, A Chatzipetros, Z Kamaci, A Pinar, M Senturk, K Uyusal, E Sener
STP03415P The seismoacoustic examination of the palaeolakes in the Gulf of Gdańsk region: P Przedziecek, J Krzyminska, L Mil

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.
### Saturday 9 August – Early Afternoon

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The following symposia begin in this session. Some symposia continue on the next day. Next day presentations may be found in the next day section.

**Saturday 1400h**

**ASI-04 Evolution of the Arabian-Nubian Shield and its Orogenies**

1400h ASIO4401L Expressions of Neoproterozoic icehouse earth in the Arabian-Nubian Shield: **N Miller**


1515h ASIO4405L Socotra: A missing part of the Arabian basement puzzle: **M Whitehouse**, S Al Khirbash, V Pease.

1600h ASIO4406L How wide in the Arabian plate is the Najd fault system?: **A Al-Mishwat**.

1615h ASIO4407L New evidences for a tectonic escape model as origin of the najd fault system: **S Mogren**, D Fairhead, J Saad, A Abdulfrahim, A mamdoh, A Al Laboun.


1645h ASIO4409L Low-angle extensional shear zone boundary between the central and south eastern deserts, Egypt: Implications for post-collision orogenic extension: **A Fowler**, A Osman.


1715h ASIO4411L Origin of Neoproterozoic ophiolitic serpentinites and their economic potentialities in the Eastern Desert, Egypt: **M Azer**.

1730h ASIO4412L Geology and geochemistry of the karara rocks in the kamis mshayt quadrangle, Asir region, southwestern Arabian shield, Saudi Arabia: **H Sindi**.

### ASIO4413P Zircon composition and internal structure as significance for different granitic phases in Wadi El Atrash, eastern desert, Egypt: **B Ali**

1415h ASIO4415P A calc-alkaline Neoproterozoic dike suite from the northernmost Arabian-Nubian Shield, Quweira area, south Jordan: **G Jarrar**.

1445h ASIO4416P Petrogenesis of ophiolitic complexes and their relationships with younger intrusions in the western Islamic Republic of Iran: **M Arian**, S Maleki.


**Saturday 1400h**

**CGC-13 Fjords: climate and environmental change**

1400h CGC13401L Regional change and local input: The significance of local events for the interpretation of environmental change from fjord sediments: **M Paetzol, T Dale**.

1415h CGC13402L The exceptionally thick, expanded sedimentary fill of the Crane Glacier Trough: a new-born fjord following the collapse of Larsen B Ice Shelf, Antarctica: **M Rebescos**, E Domack, F Zigr, A Leventer.

1430h CGC13403L The medieval warm period and the Little Ice Age in marine sediments from Maxwell Bay, King George Island, West Antarctic Peninsula: **H Hass**, G Kuhn, M Forwick, T Vorren.


1500h CGC13405L Scotland’s fjord landsystem: **M Stoker**, T Bradwell, J Howe.

1515h CGC13406L Long-term morphodynamic evolution of a fjord formed by tidewater glaciers in Svalbard: **S MacLachlan**, J Howe.

1600h CGC13407L Present fjord sediments as a key to the epicontinental Jurassic past: **M Paetzol**, H Schrader, J Sinnenhe Damste.

1615h CGC13408L Temperate glacimarine sediment yields during glacial advance: **L Trusel, W Willemers, R Powell, L Mayer**.

1620h CGC13409L Compactional subsidence in Modern Yellow River Delta: **M Gao**.

1625h CGC13410L Climate variability during the last millennium: Records from the fjordic coastal environments of the NW European shelf: **W Austin, A Cage, P Gillbrand**.


1635h CGC13412L Early to mid Holocene sediment flux and seasonal provenance using x-ray fluorescence and backscattered electron microscopic studies from anoxic fjord, Saanich Inlet, BC, Canada: **K Kanamaru**, R Francis, R Bradley.

1640h CGC13413L Deglacialization of western Scotland: Multibeam bathymetry and marine sediment archives from a fjordic landsystem: **K McIntyre, T Bradwell, T Shimmield, J Howe**.

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Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.
1645h CGC13414L Paraglacial sediment processes within fjord systems: B Hjelstuen, H Halldíason, H Sejrup, A Lyså
1650h CGC13415L Deglaciation history of Storfjorden, southwestern Svalbard, preliminary results: L Plassen, T Rasmussen, D Klitgaard Kristensen, T Nielsen, N Koč
1655h CGC13416L The influence of glaciers and rivers on the sedimentation in Tempelfjorden and Sassenfjorden, Spitsbergen: M Forwick, T Vorren, C Vogt

Saturday 1400h
GEC-01 General contributions to coal geoscience
1400h GEC10401L On-line control of ash content in coals according to data of nuclear-and-geophysical studies: Y Pak, D Pak
1415h GEC10402L Petrological atlas of fossil organic matter of Russia: V Vyalov, Ò Petrov, Ò Volkova, G Belenetskaya
1430h GEC10403L Organic petrology of coastal peatlands from Eastern Spain, quaternary evolution and basin analysis application: A Lopez-Buendia, M Whateley
1445h GEC10404L Pore structure and permeability of tectonically deformed coals related to underground gasification from the Huaiabei-Huainan coalfield: Y Ju, Ò Hou, X Li
1500h GEC10405L Health impacts of coal: Possible solutions: R Finkelman
1600h GEC10406L Sunspots and wildfires: An ~300 m.y.a record of solar cycle effects in bituminous coal, Appalachian Basin: T White
   GEC10407P Experimental assessment of the potential role of dawsonite as a mineralogical CO₂ storage host: J Declercq
   GEC10408L One kind of borehole hydraulic coal mining system: B Xia, X Zeng, Z Mao
   GEC10409L Resources of hard coal in Polish coal basins: Z Albin, A Zdanowski
   GEC10410P Statistical analysis of relations between petrographic and geochemical indices of petroleum generation potential in coals and related source materials: L Tsai, H Lee, L Sun
   GEC10411P The distribution characteristics of sulfur and the main harmful trace elements in Chinese coal: S Tang, S Sun
   GEC10412P The evolving petroleum potential of humic coals: T Vu Thi Anh, B Horsfield, R Sykes

Saturday 1400h
HPF-07 Rise and fall of the Ediacaran (Vendian) biota
1400h HPF07401L Supermountains and Earth’s O₂-rich elixir of life: Extreme erosion and the rise of animals: I Campbell, C Allen, R Squire
1415h HPF07402L Wide distribution of Horodyskiia- and Palaeaspisichnus-like fossils in upper Ediacaran cherts of South China: S Xiao, L Dong, B Shen, C Zhou, X Shi, G Jiang
1430h HPF07403L New discovery of Tianzhushania ornata from the lower Doushantuo Formation in Yangtze Gorges and its biostatigraphical implication: C Yin, P Liu, F Tang
1445h HPF07404L Bacterial symbiosis: The driver for morphological peculiarities of the Vendian organisms?: E Serezhnikova
1500h HPF07405L Mat communities of the Ediacara biota in South Australia: J Gehling, M Droser
1515h HPF07406L Growth and development of early Ediacarans: G Narbonne, M Lafflamme, E Bambforth, L Flude, J Gehling
1600h HPF07407L Oldest Vendian-Ediacaran fossils in the oseisk group: Contribution to Late Neoproterozoic (Ediacaran) age of sea transgression and origin of the Siberian platform cover: J Sovetov, L Solovetskaya
1615h HPF07408L New insights into Pteridinium morphology using geometric morphology: M Meyer, P Harries
1630h HPF07409L A Neoproterozoic chordate with possible affinity to the ascidians: New fossil evidence from the Vendian of the White Sea, Russia and its evolutionary and ecological implications: M Fedonkin, P Vickers Rich, B Swalla, P Trusler, M Hall
1645h HPF07410L Growth, stasis and decline in the metazoan diversity during the late Vendian: The bilaterians take over the ocean: M Fedonkin, A Ivanov, M Leonov, E Serezhnikova
1700h HPF07411L The Neoproterozoic skeletal bloom: J Gamez Vintaned, A Zhuravlev, E Linan, A Fedorov
   HPF07412P The Terminal Neoproterozoic “gap” in evolutionary progress of the algal flora: Artifact or reality?: M Leonov
   HPF07413P Treptichnus pedum and the Vendian-Cambrian boundary: A Ragozina, D Dorjnamjaa, A Krayushkin, E Serezhnikova
   HPF07414P Ocean salinity, supermountains and the rise of animalia: P Vickers Rich
   HPF07415P Portraits of the past: P Vickers Rich, P Trusler
   HPF07416P Discovery of the first macroscopic carbonaceous algal assemblage in the terminal Proterozoic of Namibia: M Leonov, M Fedonkin, P Vickers-Rich, A Ivanov, P Trusler, K Hoffmann

Saturday 1400h
HPS-10 Stratigraphic subdivisions of the Cretaceous System: State of the art
1400h HPS10401L Cretaceous chronostratigraphy: Why only 25% of the stages have a ratified GSSP?: I Premoli Silva
1430h HPS10402L The Aptian stage: Input from the historical stratotype: B Granier, M Moulaide, P Rolopo, G Tronchetti, W Kuhnt
1445h HPS10403L Definition of the upper Albian (Early Cretaceous) based on inoceramid bivalves: J Crampton, A Gale, W Kennedy
1500h HPS10404L Geochronology for the Aptian-Albian and Cenomanian-Turonian Stage Boundaries, north Germany: Implications for the Re-Os organic-rich sediment geochronometer: D Selby, J Mutterlose, D Condon
1515h HPS10405L Turonian-Coniacian boundary: definition, recognition and stratotype problems: I Walaszczyk, C Wood

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.
1600h  
**HPS10406L** A Cretaceous epicontinental sea: How far from the standard biostratigraphic schemes planktonic foraminiferal faunas of northern South America are? D Espitia Vanegas, O Mantilla Muñoz, C Caicedo Núñez, M Pulido Taborda, V Torres Torres

1615h  
**HPS10407L** Inoceramus Ianjaonais Sornay, 1973 – an inoceramid marker for the base of the Upper Maastrichtian: I Walaszczyk, W Jagt, N Keutgen

1630h  
**HPS10408L** Astronomical calibration of the Cretaceous-Palaeogene boundary: Cyclostratigraphy from core photographs of ODP holes 762C, 1001A and B: D Husson, B Galbrun, J Laskar, E Huret, S Gardin, N Thibault

**HPS10409P** The Santonian-Campanian boundary in the Northern Carbonareous Alps (Austria/Germany): M Wargleich, H Summesberger, A Kroh

**HPS10410P** Modifications to the Upper Cretaceous UC calcareous nanofossil biostratigraphic zonation scheme to reflect results of recent stage-boundary research: J Lees, P Bown

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**Saturday 1400h**

**HYH-08 Management of coastal aquifers**

1415h **HYH08401L** Areal exploitation of groundwater in coastal dunes: S Carretto, E Kruse

1430h **HYH08402L** Hydrogeological overview of the Adriatic karst islands based on diverse parameters: J Terziev

1445h **HYH08403L** Two coastal aquifers in India respectively in Oman and management options: G Jacks, C Unnikrishnan Warrier, M Shammars

1500h **HYH08404L** Impact of groundwater resource management on coastal aquifers and adjacent wetlands in south Portugal: T Stigter, A Carvalho Dill

1600h Meeting of UNESCO-IUGS-IGCP Project 523 “GROWNEN” (AGID)

**HYH08405P** Three-dimensional numerical simulation of density-dependent groundwater flow and salt transport at a proposed coastal low and intermediate level radioactive waste disposal site: C Oh, J Kim

**HYH08406P** Hydrogeological, hydrochemical and isotopic study of the Sfax deep aquifer groundwater in Tunisia: B Chulli, M Bedir

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**Saturday 1400h**

**IEI-06 Data models and architectures**

1400h **IEI06401L** Modelling of geoscientific information systems: A Ritchie, B Simons

1415h **IEI06402L** Ontological geosciences: An example of a layered Earth concept data model: X Guo, K Sun, Q He, L Xie

1430h **IEI06403L** Ontological geosciences: An experiment to represent geodynamics using modeling languages: X Cai, K Sun

1445h **IEI06404L** Migrating a geological database to the Arc Hydro Groundwater data model: T Whiteaker, P Ganey-Curry

1500h **IEI06405L** Exploiting the power of the OGC observation and measurement standard to rapidly develop interoperability in the earth sciences and beyond: L Wyborn, S Cox

1515h **IEI06406L** Data model geology – the structure for geological data sets in Switzerland: N Oesterling, P Baland Renaud, A Kuehni

**IEI06407P** Standardization of data elements: a primary step for a geological and mineral ontology: X Ma, C Wu, F van der Meer, J Carranza

**IEI06408P** Ontological geosciences: Geoscientific concept space for data mining: H Hu, K Sun, X Yang

**IEI06409P** Development of an effective database system for managing petrophysical data in the oil and gas industry: Y Choi, J Suh, H Park, J Choe

**IEI06410P** The GeoSciML logical model: J Laxton

**IEI06411P** A relational data model for active fault database of Japan and its reconstruction to an object oriented model for XML schema: Y Fusejima

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**Saturday 1400h**

**IEI-22 Adding an extra dimension: moving geological surveys to a 3D culture**

1400h **IEI22401L** The geological maps of the future: 3Dd modelling at BGS using the GS13D software and methodology: S Mathers, H Kessler, H Sobisch

1415h **IEI22402L** GIS and 3d modelling for the megapolis geological and environmental mapping: O Mirnov

1430h **IEI22403L** Pragmatic 3D geological mapping of structurally complex regions: M Rattenbury, R Paner

1445h **IEI22404L** The transition to 3D, web-accessible geological mapping: H Thorlefsen

1500h **IEI22405L** 3D subsurface characterization of the Netherlands: Results from stochastic modeling: J Stafleu, D Maljers, J Gunnink, A Menkovic, F Busschers

1515h **IEI22406L** Tools and methods for constructing 3D geological models in the urban environment: B Bourgine, A Prunier-Leparmenter, C Lembezat, P Thierry, C Luquet, C Robelin

1600h **IEI22407L** 3D Mineral systems of the Yilgarn Craton: P Henson, R Blewett, T Brennan, J Walshe

1615h **IEI22408L** WEB-GIS three-dimensional information system of boring database, geological map and three-dimensional model of ground: K Kimura, T Nemoto, Y Ishihara, S Takami, M Toyoda

1630h **IEI22409L** 3D geological modelling: an inescapable practice in geosciences applications: G Courrioux, B Bourgine, P Calcagno, A Guillen

1645h **IEI22410L** Outdoor Augmented Reality as a tool for bringing 3D geology to the field: the RAXENV project: L Frauciell, J Vairon, P Nehlig, P Thierry, I Zendejebi, F Ababsa

1700h **IEI22411L** Integrating geology and geophysics in a 3D geology and prospectivity model for improved drill targeting of mineral alteration systems: P Mclnerney, P Pearson, B Rodriguez

1715h **IEI22412L** Additional geological constraints for 3D litho-inversion of geophysical data: R Lane, R Seikel

**IEI22413P** 3-D geological modeling and application of Cube Predicting Model: J Chen, J Zhao

**IEI22414P** Introducing geological concepts to guide computer generated 3D modeling: Subsurface mapping
of the Cretaceous in Flanders (N-Belgium): J Matthijs, D Lagrou, K De Nil

IEI22415P Uncertainty quantification of stacked two-dimensional geological models: D Maljers, J Gunnink, M Bakker

IEI22416P Potential landslide identification by 3D visualization in the Three Gorges area: p Jin, R Yang

IEI22417P 3D Geological model of the Mont Terri rock laboratory: N Oosterling, P Bossart, U Eichenberger, C Nussbaumer, A Kuehni

IEI22418P Application of multiple point statistics (MPS) on a fluvial-estuarine depositional environment: F Busschers, D Maljers, S van Gessel

IEI22419P 3D Integrated crustal model of the southwestern Barents Sea: C Barrère, J Ebbing, L Gernigon

IEI22420P 3D modelling of alpine Mohos in southwestern Alps: D Schreiber, J Lardeux, G Courrioux, G Martelet, A Guillen

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Saturday 1400h

MPI-05 Large Igneous Provinces: Initiation, evolution and origin

1400h Introduction

1415h MPI05401L Continental sills formation as an indicator of mantle plume manifestation: G Fedoseev

1430h MPI05402L Hydrothermal venting in volcanic basins: S Planke, H Svensen, A Mazzini, A Malthé-Sorensen, J Jamtev

1445h MPI05403L Initiation of the Ferrar LIP, Antarctica: Multiple shallow level sill intrusions within wet sediments associated with hydroclastic eruptions with strombolian components: L Vieriek-Goette, M Abratis, R Schoener, M Elsner, J Schneider, B Bomfleur

1500h MPI05404L West Siberian traps: S Saraev, T Batyrina, A Kletz, A Kopilova

1515h MPI05405L Distribution and anatomy of the Kalkarindji large igneous province: L Evans, D Phillips, F Jourdan, T Blenkinsop

1600h MPI05406L Ediacaran volhynian flood basalts in western margin of east European craton – large continental igneous province: N Bakun-Czubara, A Bialowolska, Y Fedoryshyn, Z Pecsak

1615h MPI05407L Giant layered mafic intrusions and mafic magmatic shear zones of the c. 1075 Ma Gile Event: P Evans, H Smithies, H Howard

1630h MPI05408L Geochemistry of ~1.1 Ga Midcontinent Rift related volcanic and intrusive rocks: Implications for source region and emplacement history: P Hollings

1645h MPI05409L Petrology and geochemistry of the mafic flows and dykes of eastern deccan volcanic province, India: D Paul, T Lala, A Chaudhary

MPI05410L Permian basalts of the Tarim basin of NW China: Is a large igneous province? Z Li, H Chen, S Yang, C Langmuir, C Jia, G Wei

MPI05411L The age of plume-tectonic processes in the Early Proterozoic Pechenga Area on the isotope Sm-Nd data: T Bayanova, P Skuřín

MPI05412P Two different Palaeoproterozoic large igneous provinces at the eastern Fennoscandian Shield: E Shkarov, A Chistyakov, I Krassivskaya

MPI05413P High-magnesian rocks in early Precambrian large igneous provinces of Fennoscandia: V Kulikov, Y Bychkova, V Kulikova

MPI05414P Crustal anatexis during LIP formation: Evidence from the Voring Plateau (NAIP) and North Victoria Land (FLIP): M Ábraháti, L Vieriek-Goette, J Hertogen, R Meyer, R Pedersen, M Elsner, R Schoener

MPI05415P (U-Th)/He thermochronology of the Fe-bearing Korshunovskoe diatreme breccia, Siberian Large Igneous province: A Polozov, N Evans, B McNees, P Reiners, K Farley, A Saunders, L Morgan, K Pierce, M Widewson, Y Xu

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Saturday 1400h

MRD-07 Geology and mineral potential of CIS countries

1400h MRD07401L Silver-antimony deposits of the Asia and their relationship with magmatism: G Pavlova, A Borisenko, A Obolenskiy, A Travin

1430h MRD07402L The first occurrence of native rhenium in natural geological systems: A Bobrov, D Hurskiy, I Merkushyn, O Voloshyn, L Stepanyuk, O Lyseenko, S Goshovski

1500h MRD07403L Multi-ring structures and large ore clusters of Central Kazakhstan: D Gurevich

1515h MRD07404L Nickel laterites of Russia and Kazakhstan: L Mordberg

1600h MRD07405L Perspectives of development of mineral resources in North-Asian craton: O Dyuzhikov, A Mkrtych’yann, G Mkrtych’yand

1615h MRD07406L Raw material potential and wealth of Russian subsurface: state and trends of their innovative utilization: S Kimelman, O Petrov, I Nezhensky, V Shatov, B Mikhailov, Y Vorobjev, A Tatarkin, A Sholomentsev, E Aksenov

1630h MRD07407L Evolution of the uranium ore-forming processes in the Aldan and Anabar shields from Archean to Mesozoic: A Molchanov, A Khudoley

1645h MRD07408L Post-collisional Hercynian magmatism in the Tien Shan: Lithospheric shearing vs. mantle plume origin: D Konopelko, R Seltmann, G Biske, D Matukov, S Sergeev

1700h MRD07409L Placer deposits of Russia: mineraogenic analysis of polymetamorphic placer provinces: N Patyuk-Kara, T Makanova, E Bardeeva, A Lesin, R Chefranov

1715h MRD07410L Perha beryllium deposit of the Ukrainian shield as the unique ore object: L Galetsksy, L Romanik

MRD07411P A new type of precious metal mineralization the “intrusion related” (Uzbekistan): R Koneev, R Seltmann

MRD07412P Connection of alunite secondary quartzites with gold mineralization (South-west part of Chatkal ridge, Uzbekistan): O Sidorova

MRD07413P Russian orogenic gold deposit: Physical-chemical conditions of formation and
geochemical features of ore-forming fluids: V Prokofiev, N Bortnikov

MRD07414P Glaucosite deposits of Russia: Perspectives of development: E Levchenko, N Patyk-Kara, M Levchenko

MRD07415P Perspectives of diamondiferousness in the territory of Polisiski tecton (Ukraine) V.O. Lavro: V Lavro

MRD07416P Large-size gold deposits of folded areas in southern Siberia: Regularity in distribution and genesis questions: A Shepel, M Gavrilenko, V Lepelin, E Belonozhko, R Rodin

MRD07417P Epochs of manganese mineralization in folded regions of Siberia: E Kassandroff, N Lidin, E Kassandroff, N Bazhenova, R Rodin

MRD07418P Cobalt mineralization of Tuva, SE Altai and NW Mongolia: V Lebedev, M Lebedeva

MRD07419P Distribution of Pd and Pt in different ore deposits of the Polar Urals: J Pašava, I Kněšl, A Vymazalová, L Gurskaya, L Kolbantsev

MRD07420P Ore cluster – a key taxon of metallocenic system of Russia: V Shatov, E Plyushchew

MRD07421P Nanodiamonts in the rocks of the Cryptexosol structure Onego (Central Karelia): V Kulikov, V Kulikov, A Ternovoy

MRD07422P The PGE metallocenic potential of Russian Far East: Major features of mineralization and related rock association types: V Ivanov

MRD07423P Gold mineral base – natural limits of the development (Uzbekistan): M Parnazarov

MRD07424P Fluid explosive breccias, a new type of endogenous ore-bearing rocks: L Sharpenok, L Lukianova

Saturday 1400h

1400h OSP-04 Contourites

1400h OSP04401L The significance of contourites for submarine slope stability: J Laberg, A Camerlenghi

1430h OSP04402L A record of the MOW off the North Iberian margin (Spain): The Le Danois Contourite Depositional System: F Hernandez Molina, J Iglesias, D Van Rooy, D Casas, M Gomez Ballesteros, E Llave


1500h OSP04404L Hatton drift textural evidence of late quaternary changes of deep western boundary current: V Sivkov

1515h OSP04405L Deposits of thermohaline currents on slopes in the North East Atlantic Ocean – implications for climate change: N Owen, L Toms, P Haughton, R Edwards, P Shannon


1615h OSP04407L High resolution imaging of modern current activity in Santos Channel, Santos Drift System: C Duarte, A Viana

1630h OSP04408L Bottom currents and gravity driven deposits in the deep-water pelotas basin: M Mepen, C Silva, A dos Reis, T Corrêa

1645h OSP04409L The contourite depositional system in the Argentine margin: F Hernandez Molina, M Paterlini, P Marshall, M de Isasi, L Somoza, R Violante, M Rebesco

1700h OSP04410L Contourites: the multidisciplinary perspective gained from the editing of the forthcoming book of the series developments in sedimentology: M Rebesco, A Camerlenghi, A Authors


OSP04412P Paleoenvironmental and climate changes implications from two Contourite Depositional Systems along the Iberian Margin: Gulf of Cadiz and Le Danois (Bay of Biscay): E Llave, F Hernandez-Molina, J Iglesias, G Ercilla, D Van Roorij, M Gomez-Ballesteros, D Casas

OSP04413P Sequence stratigraphy of contourite drift deposits in North Atlantic basins: D Stow, J Hernandez-Molina

OSP04414P Textural records of bottom-current variability during the last deglaciation, northern Rockall Trough and Faeroe Bank Channel, NE Atlantic: J Howe, K McIntyre

OSP04415P Seismic identification of contourites: T Nielsen, P Knutz, A Kuijpers, J Faugères, D Stow, P Imbert, A Viana

Saturday 1400h

PED-01 Deep Earth: from crust to core

1400h PED01401L1l – founding partner of international year of planet earth: Frontiers in integrated solid earth sciences: S Cloetingh, D Negenkam

1415h PED01402L Lithosphere-asthenosphere interactions: Coupling between partial melting, melt transport, and deformation: A Tommasi, V Le Roux, V Soustelle, J Bodinier, A Vauchez, C Garrido

1445h PED01403L Fate of continental crust during ultradepth subduction: Experimental studies: L Dobrzhinetskaya

1515h PED01404L Effects of accelerated glacial melting on the growth and collapse of volcanoes: Plancho-Peteroa volcano, southern Andes: D Tormey, F Pasquare, A Tlibaldi

1600h PED01405L From magma intrusions to eruptions: The control of tectonic stresses and topography – ILP Task Force II: A Tlibaldi, F Pasquare, T Daniel


1700h PED01407L Dynamic topographic evolution in Central Asia since Mesozoic: Q Wang

1715h PED01408L The ILP regional coordination committee DynaQlim: M Poutanen, S Gregersen, S Haubrock, E Ivins, V Klemann, J Kukkonen, H Scherneck, B Vermeersen
Saturday 9 August – Late Afternoon

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The following symposia begin in this session. Some symposia continue on the next day. Next day presentations may be found in the next day section.

**Saturday 1600h**

GEP-01 General contributions to petroleum geoscience

1600h **GEP01401L** The exploration play, what do we mean by it?: H Doust

1630h **GEP01402L** The workstation for exploration geoscientists; how can it support collaboration?: Ø Steen, R Helland, J Granli

1700h **GEP01403L** Exploring for the truth: C Campbell

1730h **GEP01404L** Petroleum exploration history: Discovery pattern versus manpower, technology and the development of principles: A Spencer, K Chew

**GEP01405P** Site Surveys & Shallow Gas Assessments within statoilHydro, a necessary and exciting operation for all exploration- and development-wells: T Reichel, D Lundqvist, H Johansen, B Christiansen

**GEP01406P** The presence of hydrocarbons in southeast Norway: N Hanken, M Hansen, J Nielsen, S Olausen, B Buchardt, T Eggebo, R Steinsland

**GEP01407P** Organic matter in the Carpathian rocks from Poland and Ukraine: K Jarmolowicz-Szulc, I Dudok, L Jankowski

**GEP01408P** Source organic matter and depositional environment in Prinos oil field (Greece): P Kioumourtzi, N Pasadakis, E Manutsoglu, A Zelilidis, K Papakonstandinou

**GEP01409P** The evolution for oil or gas generation in north Iraq: M Issa

**GEP01410P** Natural reservoirs and petroleum potential of the Upper Orlovickian-Lower Devonian carbonate complex, Timan-Pechora oil-gas province (European north): V Makarevich, F Chimbilatov

**GEP01411P** Oil zones in situ in the Orenburg gas condensate field: A Dmitrievsky

**GEP01412P** Depth geology of the western mugalzhar according to the results of the seisimc survey by cdp method: V Li, B Baimagambetov

**GEP01413P** Role of transformation of petroleum pollution in formation acoustic, electric and thermal properties of freezing soils: J Nefedyeva, R Motenko

**GEP01414P** Sequence-stratigraphy and oil-gas complexes of the pacific margin: L Margulis

**GEP01415P** Functions of Uranium contained substance on the evolution of organic matters in kerogen under the thermal simulation experiment of source rocks: J Miao, X Li, J Zhao, C Liu, Z Liu

**GEP01416P** Characteristics of carbon sequence stratigraphy in Tarim basin, northwestern China: T Fan, H Wang, Z Gao

GEP01417P Petroleum geological data drilling in northern Tibetan Qiangtang basin: L Zhongxiong

GEP01418P Identification of different grade sequence boundaries of YanChang formation upper Triassic in ordos basin: H Zhao, B Dong, W Li

GEP01419P Petroleum accumulation systems in Liaohe sub-basin: X Li

GEP01420P Characteristics of organic matter from the drilling core sediments, Cheju basin: Y Lee, J Kim, J Oh, T Cheong, M Park

**GEP01421P** Sequence stratigraphy and petroleum potential of indus offshore, Arabian sea: N Sattar

**Saturday 1630h**

HPF-10 Dawn of the Danian

1630h **HPF10401L** The ammonite fauna of the type Danian (Denmark) and adjacent areas: E Håkansson, M Machalski, C Heinberg, J Jagt

1700h **HPF10402L** Ecology of a poisonous sea: E Håkansson, C Heinberg, E Thomsen

1715h **HPF10403L** Origins of post-K-Pg Danian macroinvertebrates and vertebrates from the southern high latitudes: New data from Antarctica and New Zealand-Chatham Islands: J Stillwell, S Hope, C Consoli

1730h **HPF10404L** A high-resolution planktic foraminifera biostratigraphy and mass extinction patterns across the K/T boundary at Bidart: F Caballero, E Apellanz, J Baceta, X Orue-Etxebarria, V Pujalte

1745h **HPF10405L** Planktic foraminiferal catastrophic mass extinction and assemblage evolution across the Cretaceous/Paleogene (K/Pg) boundary at Bidart (SW France): N Gallala, D Zaghbibi-Turki, É Molina, I Arenillas, J Arz

**Saturday 1600h**

IEI-07 Interoperability and exchange formats – developments in XML, GML, GeoSciML, OGC, ISO and other standards

1600h **IEI07401L** GeoSciML 2.1.0: Significant changes and additions to the CGI-IUGS geoscience data model: B Simons, C Bellier, B Brodaric, S Cox, Y Fusejima, D Janjou, B Johnson, J Laxton, O Raymond, S Richard

1615h **IEI07402L** Standards-based methodology for developing a geoscience markup language: S Cox

1630h **IEI07403L** Two eWater web application for multilingual interoperable interface to groundwater data: M Hansen

1645h **IEI07404L** GeoSciML borehole implementation: C Bellier, J Laxton

1700h **IEI07405L** The thumbnail definitions of terms in the british geological survey's rock classification scheme: B King

1715h **IEI07406L** The importance of standard rock taxonomies to higher and lower levels of geological knowledge: C Smyth, D Poole, R Sharma

**IEI07407P** The Australian mineral occurrence data exchange model: A Seymour, B Simons, O Raymond, L Wyborn

**IEI07408P** Effective management of rock names in databases using a faceted taxonomy: P Davenport

**IEI07409P** eEarth and eWater multilingual digital geological database: D Eápvá

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Saturday 1600h
UHP-06 Numerical modeling of deep subduction and exhumation of UHPM fragments: Implication to Earth’s interior

1600h **UHP06401L** Deep subduction of crust to the core-mantle boundary and its subsequent distribution around the mantle: **P Tackley**, T Nakagawa, J Connolly, F Deschamps

1615h **UHP06402L** Continental crust recycling: Insights from numerical modeling: **M Faccenda**, T Gerya, S Chakraborty

1630h **UHP06403L** Continental subduction the role of surface processes and P-T-t-z conditions: **E Burov**

1700h **UHP06404L** Numerical modeling of polyphase formation and exhumation of HP-UHPM rocks in continental subduction zone: Implications for the Sulu UHP terrane in eastern China: **Z Li**, T Gerya

1715h **UHP06405L** Tectonic evolution from oceanic subduction to continental collision inferred from North Qaidam UHP belt, NW China: **S Song**, Z Lifei, N Yaoling, L Su, Z Guibin

**UHP06406P** Double subduction dynamics: Insight from petrological-thermomechanical numerical models: **Y Mishin**, T Gerya, J Burg

**UHP06407P** The role of numerical implementations on models of subduction dynamics: **M Quinquis**, S Buiter

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Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.
Monday 11 August – Early Morning

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The following symposia begin in this session. Some symposia continue on the next day. Next day presentations may be found in the next day section.

Monday 0830h
AAA-07 Russian-Norwegian scientific co-operation in the Barents Sea region
0830h Opening address and welcome: Minister L Stubbolt
0900h Cooperation between the Russian and Norwegian Authorities: Minister A Varlamov
0915h AAA07601L Presentation of the geoForum and introduction to ongoing geoscientific co-operation projects: E Ormaasen
0930h AAA07602L Arctic research cooperation: A Stoupakova, E Henriksen, M Ivanov
1030h AAA07603L The Svalbard – Frans Josef Land Project – A Russian/Norwegian geoscience cooperation program for unravelling the tectono-magmatic history of the northern Barents Sea continental margin: H Brekke
1100h AAA07604L PETROBAR – petroleum related studies of the Barents Sea region: J Feidele
1400h AAA07606L Cenozoic sandy systems in the Barents sea region: T Vorren, K Andreassen, J Laberg, H Haflidason, E Henriksen, M Ivanov
1415h AAA07607L Scientific collaboration between VNIOkeangeologia and Norwegian organizations in the Barents Sea: V Kaminsky, V Glebovsky, V Petrova, V Poselov, O Suprunenko, A Zayonchek
1430h AAA07608L Potential field data of the Barents and kara seas – Reevaluated: S Werner, J Ebbing, T Litvinova, O Olesen
1445h AAA07609L Floating University: An international co-operation for training in marine sciences: M Ivanov, A Suzyumov, N Kenyon, J Woodside, G Akhmanov, E Kozlova
1500h AAA07610L Russian-Norwegian education cooperation in field teaching of oil geology: A Nikishin, E Henriksen, A Stoupakova, S Bolotov
AAA07611P Geological map of Spitsbergen (Svalbard) and adjoining shelf in 1:1 000000 scale: A Tebenkov, A Sirotkin, V Sharin, A Lajba

Implications for the trans-border correlations with Cameroon: F Toteu, G Moloto, J Penaye, W Van Schmus, C Lerouge, A Cocherie
0900h AFR01602L Evidence of Ca 1.6-Ga detrital zircon in the bafia group: implication for the chronostratigraphy of the pan-African belt north of the Congo craton: J Numbem Tchakounte, S Toteu, W Van Schmus, J Penaye, D Etienne, J Mvondo Ondoa, M Bouyo Houketchang, W M. White
0915h AFR01603L Nd-Sr isotopes in the granitoids from Dschang region and their implications for crust evolution during the PanAfrican fold belt in West-Cameroon: M Kwekam, E Njonfang, R Affaton
0930h AFR01604L Pan-African (Neo-)proterozoic to Cambrian) cycle and related minerals resources in Africa: Y Deschamps, E Le Goff, J Milesi, S Toteu, M Billot, J Salpeteur, V Boucho, F Maladan
1045h AFR01606L New geochronological data by single zircon Pb-Pb-evaporation method in North-eastern Tanzania: Regional implications for the Tanzanian Mozambique belt and gemstones mineralization: E Le Goff, Y Deschamps, C Guerrot, A Cocherie, J Milesi, D Ketto, E Malisa, S Muhongo
1115h AFR01608L Decoupled deformation in the deep crust – constraints from the Eastern Granulites of northern Tanzania: H Fritz, V Tenczer, C Hauenberger, S Muhongo, E Wallbrecher, G Hoinkes
1130h AFR01609L Contribution of pre Pan-African crust to the formation of the northernmost Arabian Nubian Shield: Evidence from SIMS U-Pb dating of zircon: Y Be’eri-Shlevin, Y Katri, M Whitehouse
1145h AFR01610L Geochemistry of the Neoproterozoic clastic sedimentary rocks from the Ikorrongo Group, NE Tanzania: Implications for provenance and source rock weathering: C Kasanuz
1400h AFR01611L Proterozoic sedimentary basins within the Southern East African Orogen: A gondwana link: A Collins, P Kinny, M Santos, T Razakamanana, C Clark
1415h AFR01612L Probable Neoproterozoic retro-arc basins on the southern Kalahari craton: The search for an active margin bordering southern Gondwana: U Zimmermann, J Tait, T Miyazaki, T Naidoo
1430h AFR01613L Provenance of the cape supergroup in the Cape Fold belt of South Africa – preliminary results: U Zimmermann, P Fourie, T Naidoo, A Simonetti
AFR01614P The interplay of the Eburnian and of the Pan-African orogenies in the Palaeoproterozoic granitoids of Zenaga inlier (Central Anti-Atlas, Morocco): N Ennih, J Liégeois, E Errami
AFR01615P Petrography, chemostratigraphy and age dating of detrital zircons in Upper Neoproterozoic rocks from Witpüzt (southern Namibia): U Zimmermann, J Tait, G Straathof, A Simonetti

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium's oral presentations.
AFR01616P Hercynian granitoid melts generation in the Inner Caucasian Microplate: A Okrostsvardze, L Bashaleishvili, D Bluashvili

AFR01617P Tillite, glacial diamicite or diamicite: the Neoproterozoic Blaubeker Formation in central Namibia? Petrographic, sedimentological and geochemical constraints: J Tait, U Zimmermann, A Simonetti

AFR01618P Shrimp u-pb dating of single magmatic zircon grains from granitoid gneisses and detrital zircon grains from the Tsodilo Group quartzites in the pan african damara belt, western botswana: Age constraints, provenance and tectonic evolution: R Mapeo, M Wendorff, R Armstrong, V Ramokate


Monday 0830h
CGC-01 General contributions to climate change

0830h CGC01601L Can metamorphic reactions influence atmospheric greenhouse gas concentrations?: A Skelton

0900h CGC01602L The enigma of short-lived glacial episodes at times of global high pCO2 – a negative feedback mechanism for global warming?: A Vaughan

0930h CGC01604L Equable climates and the low gradient problem: Progress in understanding Eocene Climate: M Huber

0945h CGC01605L Evidence of Pliocene El Niño teleconnections in Florida associated with the lack of an east-west temperature gradient in the equatorial pacific: J Siko

1030h CGC01606L Toward an understanding of the role of deep-water circulation in ancient greenhouse climates: D Thomas

1100h CGC01607L The biotic environments of the late Miocene hominoids: J Agustí

1115h CGC01608L The late Miocene site of Udabno (Georgia) and the age of the last droythepine hominoids in Southern Caucasus: A Vekua, D Lordkipanidze, J Agustí, O Oms

1130h CGC01609L Cyclic record of the Neogene C3/C4 shift as conserved in paleosols in Cappadocia: P Lepetit, L Vierreck-Guécte, A Gurel

1400h CGC01611L Lomonosov Ridge off Greenland (LOMROG) 2007 expedition: Preliminary results on the paleoclimatic evolution of the Arctic Ocean: M Jakobsson

1430h CGC01612L Climate forcing in tierra del fuego since the LGM: N Waldmann, C Recasens, D Ariztegui, F Anselmetti, J Austin Jr., A Coronato, C Moy, R Dunbar

1445h CGC01613L Climatic periodicity, environmental hazard and atmosphere-ocean circulation in southamerican subtropic during the Holocene: J Sayago, M Collantes, M Sampietro, M Caria

1500h CGC01614L Relationships between paleoclimatic variability, desertification hazard and human occupations in mountains and valleys of a subtropical region in southern Andes: J Gómez Augier, M Caria, J Sayago, M Collantes

1515h CGC01615L Theory of the climate changers from a different perspective: I Kerimov, S Kerimov


CGC01617P Global warming and South American climate: Are we approaching a threshold?: J Milana

CGC01618P Late Miocene paleoenvironmental change of homioind sites in Kenya -mesowear analysis of Hipparion cheek teeth: H Nakaya, Y Kunimitsu, M Nakatsukasa, H Saegusa, A Fukuchi, K Uno, H Tsujikawa, T Sakai, Y Sawada

CGC01619P Plate tectonic paleoanthropology: The potential relevance of extension, topography, and tectonics to Miocene hominin evolution: T Redfield, M Often, W Wheeler

CGC01620P Late Miocene – Pliocene pollen and spore from the Taman peninsula: Climatic implications: E Grundan

CGC01621P Climate change and the contribution of renewable energies to a sustainable development in rural areas of the developing countries: M El Warliti, A Malaki, A El Ghannouchi, F El Yahyaoui, S Bahaj

CGC01622P Oxygen isotopic composition of shark teeth and coprolites as a proxy for climatic evolution during the deposition of Tunisian Paleogene phosphorite sediments: A Ounis, L Kocsis, F Chaabani, H Pfeifer

CGC01623P The calcareous nanoplankton response to short-lived episodes of global warming during the Early Eocene greenhouse world: Inferences from the Cicogna section (Italy): C Agnini, E Dallanave, D Spoforth, G Muttoni, H Pälike, D Rio

CGC01624P Environmental and climatic aspects of Late Cisuralian-Guadalupian floras from Paraná Basin (SE South America), West Gondwana, Brazil: F Ricardi-Branco, R Rohn, R Faría, T Tavares, I Cortez, R Neregato, J Fanton

CGC01625P The sudden increase of the precessional cycle duration at the beginning of the Hengelo interstad (-39 ka BP): M Ticleanu, P Constantin, N Ticleanu, R Nicolescu, G Borcan

CGC01626P Assessment of greenhouse gas mitigation potentials of alternative water regimes of rice fields by applying a biogeochemical process model: T Fumoto, T Yanagihara, T Saito, K Yagi

CGC01627P Westphalian climate and environmental reconstructions based on quantitative palynology: A new tool in palynostratigraphy and reservoir characterization: T van Hoof, O Abbink, J van Konijnenburg-van Cittert

CGC01628P Paleoclimatic perspective in the mass movement susceptibility on a subtropical region: M Collantes, J Busnelli

CGC01629P Paleosols in Late Moscovian (Carboniferous) epeiric-sea succession of Russian Platform revealing arid plain landscapes and climate

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.
change: P Kabanov, T Alekseeva, A Alekseev, V Alekseeva

CGC01630P Preliminary stable isotope analyses of Permian-Triassic pedogenic carbonate nodules from the Southern Urals, Russia: T Karsey, G Price, R Twitchett, S Grimes

CGC01631P Calcerees and records of reworked paleosols of semiarid continental Late Cretaceous deposits (Bauru Basin, Brazil): L Fernandes, A Alonso-Zarza

CGC01632P Primary research on the mechanism of geohazard chains and ways for hazard reduction: Y Lu, Y Lu

CGC01633P Reducing carbon footprints in Philippine geothermal operation: A De Jesus

CGC01634P The “mild-minima” mechanism for glacial terminations: A new perspective over Milankovitch’s theory: F Marra

CGC01635P The climatic change and its effects in Open Sea and Pluvial Lake(Closed Sea): A Motamed, M Ghorbanli

CGC01636P New OSL datings in the rautuvaara stratigraphical key section in northern Finland: P Sarala, P Hakala, H Hirvas, P Huhta, P Johansson, K Kenononen, J Valkama

CGC01637P Support for greenhouse climate models runs hot and cold in early Paleogene mid-latitude New Zealand: C Hollis, E Crouch, H Morgans, J Raine, E Kennedy, L Handley, R Pancoast, S Schouten, J Baker, J Creech, J Zachos, S Gibbs, C Burgess, P Pearson, M Huber

Monday 0830h

CGG-01 General contributions to glaciology and glacial geology

0830h CGG01601L iceberg calving flux from large Arctic ice caps: J Dowdeswell, M Sharp, A Glazovsky, T Benham, J Hagen

0900h CGG01602L Crustal effects on geothermal heat flux at the Greenland Ice Sheet base: T Leftwich, C van der Veen, R von Frese, B Csatho, A Braun, K Erkan

0915h CGG01603L Basal conditions along a 3000 km long transect of the Antarctic Ice Sheet: P Holmlund, S Fujita

0930h CGG01604L what causes the dark region in the melt zone of the Greenland ice sheet?: I Wientjes, J Oerlemans

0945h CGG01605L gradients of glacier mass balance sensitivity in the Southern Alps of New Zealand: B Anderson, A Mackintosh

1030h CGG01606L Characteristics and long term change of englacial channels in a cold based glacier, Austre Brøggerbreen, Svalbard: G Vatne

1045h CGG01607L what controls deep-ice melting under different climate conditions?: A Schomacker

1100h CGG01608L Glacial Quaternary geology of las Gonzales basin, pâramo los conejos, Venezuelan andes: M Bezada, O Gonzalez, J Carrera, C Santiago, D Diaz, A De Abrissqua, P Hernandez

1115h CGG01609L Progressive proglacial to subglacial deformation and syntectonic sedimention at the margins of the Middle Pleistocene British Ice Sheet: Evidence from north Norfolk, UK: E Phillips, J Lee, H Burke

1130h CGG01610L Middle Pleistocene retrograding dover spillway erosion: Implications for deposition in the southern north sea basin: K Cohen, P Gibbard, F Busschers

1145h CGG01611L The GlacioBasis monitoring programme at Zackenberg research station (NE Greenland): First achievements and long term plans: M Citterio, A Ahlstrom, R Fausto, C Sigsgaard, M Tamstorf

CGG01612P Late Ordovician glacial sediments in the Sahara: N McDougall, I Polonio

CGG01613P Classification of glacial sediments along the East Greenland margin: D Berger, V Jokat

CGG01614P High-resolution seismic stratigraphy and remote acoustic properties of glacioclastine sediments beneath Lake Windermere, U.K.: L Pinson, M Vardy, J Dix, T Henstock, J Bull

CGG01615P The pattern and timing of Quaternary ice sheet growth onto the north-western Irish continental shelf: S Mc Carron, X Montey

CGG01616P Hubbard Glacier, Alaska: Ice dam formation and stability: D Lawson, D Finnegan, G Kalli, W David

CGG01617P Properties of glacial tills in the upper valley of the Urumqi River, middle Tian Shan Mountains: C Yi, Z Zhu, Y Li

CGG01618P Imbricate thrust stack model for glacial rafting at an ice margin: An example from north Norfolk, UK: E Phillips, H Burke, J Lee

CGG01619P Insights into basal ice processes at Akademii Nauk ice cap, Severnaya Zemlya archipelago, High Russian Arctic: D Samyn, J Tison, H Meyer, R Schüt, D Fritzshe

CGG01620P pulsating degassing hypothesis of glaciations: V Yefipanov

CGG01621P A structural glaciological analysis of the 2002 Larsen B Ice Shelf collapse: N Glasser, T Scambos

CGG01622P Further insights into the Quaternary superficial geology of West Cumbria, England, using 3D geological modelling: Implications for Devensian palaeogeographic evolution: N Smith, J Merritt

CGG01623P How old are subglacial meltwater channels on the Antarctic continental shelf?: J Smith, C Hillenbrand, R Larter, A Graham, G Kuhn

CGG01624P Utilization of the thermal waters in Poland: J Jackowicz-Korczyński, J Dulewski

CGG01625P A phytotoxic dense gas flow produced during the crater lake breakout at Chilinaagak volcano, Alaska: M Pfeffer, J Schaefer

Monday 0830h

COC-02 New frontiers of geological sequestration of greenhouse gases

0830h COC02601L Nagoaka CO2 injection and monitoring project: a gateway of the intimate
understanding of CO2 behavior in the deep reservoir: D Tanase, T Yoshimura

0845h COC02602L CCS as a part of the German Mitigation Strategy – The willpower to act: L Stroink

0900h COC02603L Mineral CO2 sequestration into basalt: the Hellisheidi, Iceland project: S Gislason, W Broecker, E Oelkers, E Gunnlaugsson, A Stefánsson, J Matter, G Björnsson

0915h COC02604L Issues of CO2 storage in deep saline formations addressed by geochemical transport modeling: Recent advances and open challenges: T Xu, K Priess


0945h COC02606L Deep saline aquifers for sequestration of carbon dioxide: N Singh

1030h COC02607L A sensitivity analysis of the hydrological parameters in the CO2, geological storage: T Toshia, T Ishido

1045h COC02608L Experimental study of carbonate mineralization by interaction of plagioclase (rock) – CO2 dissolved water around 100°C: A Ueda, Y Kuroda, Y Yamada, Z Xue, T Matsuoka

1100h COC02609L Experimental investigation of material alteration around wellbore due to supercritical CO2: Y Yamada, M Kunieda, A Ueda, T Matsuoka

1115h COC02610L Dissolution kinetics of Ca-rich feldspar under supercritical CO2-water system: M Sorai, M Sasaki, Y Okuyama, T Toshia

1130h COC02611L Trapping mechanisms in CO2 geological sequestration: Z Xue, S Mito, K Kitamura, T Matsuoka

COC02612P Transportation of carbon dioxide and calcium during circulation test of hot dry rock system: N Yanagisawa

COC02613P Reactive geochemical transport simulation to study CO2 storage in aquifer using TGHEAT T code: the Tokyo Bay model: N Todaka, C Akasaka, Y Okuyama, T Toshia, S Ajima

COC02614P An introduction to underground geological CO2 storages in Iran: A Arash

COC02615P UNIS CO2-lab Longyearbyen, 78°N: A Braathen, A Mork, W Nemec, H Elvebakk, M Jochmann, G Sand

COC02616P Reducing global warming by CO2 injection in suitable geological formations: V Dimri

0930h EGG01604L The Tellus project – an integrated environmental survey of Northern Ireland: G Earls, M Young, D Smyth, D Beamish, D Jones, C Scheib, R Doherty

0945h EGG01605L Global warming as a possible effect of oil and gas production: D Kristofoorova

1030h EGG01606L Land cover and soil erosion changes over the past 50 years in hilly and mountainous areas of Emilia-Romagna Region (Italy): F Staffani, A Ciulli, L Disperati, N Filippi, E Guastaldi, A Rindinella, P Severi, M Tedde, S VIRDIS

1045h EGG01607L The development of lomonosov diamond deposit: V Osipov, N Rumyanstseva

1100h EGG01608L A strategic environmental assessment for the Namibian uranium province: G Schneider

1115h EGG01609L Environmental impact of mining operations waste on the transboundary territories of Central Asia countries: N Mavlyanova, S Turaeva, A Turabbaev

1130h EGG01610L Environmental mineralogy of the iron ores in the Kursk Magnetic Anomaly (KMA): T Posukhova, S Riakhovskaya

1145h EGG01611L Environmental assessment of Erdenet Mine area, Northern Mongolia: M Baatar, G Ochir, N Tsuchiya

1400h EGG01612L Environmental impacts in Paraná talc district, Brazil: A Gondim, L Mantovani, H Araki

1415h EGG01613L Sustainable city management – Example from geographical peculiarities of St. Petersburg City: D Frank-Kamenetsky

1445h EGG01614L Temporal variation of aerosol bound 210Be and 210Pb concentrations in Lisbon atmosphere: H Fonseca, M Reis

1500h EGG01615L Barrier islands in the eye of a human hurricane: Economic development vs climate change, sea-level rise, and storms: S Riggs, D Ames, S Culver, D Mallinson, D Corbett, J Walsh

1515h EGG01616L Geodetic significance in formation of tornadoes: S Mori

1600h EGG01617L Land use/cover change in the Tam Giang – Cau Hai Lagoon (Central Vietnam) by means of SPOT 5, Aster and Landsat images: I Disperati, S Viridis, M Sarti

1615h EGG01618L Influence of the urban scheme on the increase of eolic processes in the City of Fiambalá, Catamarca, Argentina: A Cacciaabue, A Niz, J Oviedo, M Savio, C Lamas

1630h EGG01619L Effect of water-rock interaction on the weathering and erosion of Pi-sandstone, Southern inner Mongolia, China: J Shi, H Ye

1643h EGG01620L Sudden flood in Barmer(2006) causing devastation in a large area and heavy casualties in the northwestern part of India: A meteorological study: H Sisodia, B Paliwal

1700h EGG01621L Hysteresis effect of runoff of the Heihe River on the vegetation cover in Ejina Oasis: X Jin

1715h EGG01622L Nitrate distribution, flow paths, and typology for groundwater/surface water interaction in stream valleys: E Nygaard, K Hinsby, M Dahl, J Vindum

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.
Monday 0800h
EIE-01 General contributions to exploration geophysics

0800h EIE01601L Aeromagnetic mapping of the Norwegian continental margin – from the Quaternary overburden to the deep basement: O Olesen, J Ebbing, L Gernigon, J Koziel, J Moggaard, J Skilbrei

0830h EIE01602L Uff da!: Interpretation and processing of large data sets for geological insight: M Ødegård, W Dickson

0845h EIE01603L A geophysical study on the Hwasun caldera in the Euisung sub-basin, Korea, using gravity and magnetotelluric data: J Eom, G Park, J Yang, B Kwon, H Lee

0900h EIE01604L The sub-basaltic structure revealed by potential field methods on the More margin: R Reynisson, J Ebbing, J Skilbrei

0930h EIE01606L Integrated geophysical approach for the imaging of the porto azzurro (Elba, Italy) plutons and the associated structures: A Siniscalchi, J Diaferia, M Liuni, M Loddo, C Magri, P Moretti, D Schiavone, S Tripaldi

0945h EIE01607L Over-sea-ice seismic reflection surveys in Antarctica using a GI air gun: M Speece, R Levy, D Harwood, S Pekar, R Powell, T Patterson, T Wonik, S Henrys, D Handwerger, D Schmitt, the SMS Science Team

1030h EIE01617L Predicting the geophysical signatures of alteration using reactive transport geochemical modelling: R Chopping, J Cleverley, P Henson, I Roy

1100h EIE01618L Insights into a major uranium province from 3D geological mapping and potential field modelling of west Arnhem land, northern territory, Australia: R Lane, G Beckitt, M Duffett

1115h EIE01608L Gas chimneys and other hydrocarbon leakage anomalies interpreted on seismic data: H Loseth, L Wensaa, B Arntsen, M Gading

1145h EIE01609L Geology-geophysical structure and lateral heterogeneities in the Jurassic section of Bukhara-Khivan region: S Radjabov

1400h EIE01610L Application of reservoir seismic inversion in the Liaohe oilfield: Y Duan, Y Yang, F Li

1415h EIE01611L Standardized LFP interpretation products: E Ødegård

1430h EIE01612L High-Resolution 3D GPR imaging of Carbonate analogue reservoirs: P Takayama, P Menezes, T L, J Trassos, M

1445h EIE01613L DISA-6 – a MATLAB code for evaluation of dispersion curve identification methods in shallow seismic survey: R Gazdova, J Vilhellem

1515h EIE01614L Mobile sensor of rotational movement for seismology: J Strunc

1600h EIE01615L Joint P- and S-wave prospection and a new method of S-wave extraction: J Valenta, J Malek

1615h EIE01616L Geophysical well logs for evaluating seawater intrusion of western coast in Jeju island, Korea: S Hwang, J Shin, K Park, K Park

EIE01619P Technique for revealing of the latent cyclicity in the sedimentation processes based on processing of the borehole geophysics data: T Sim

EIE01620P Pulse electrical exploration for examination of spatially-nonhomogeneous geological and industrially impacted environment: E Soloviev

EIE01621P Effectiveness of natural field induced polarization for detecting multi-metal deposits: J Yang, M Wang

EIE01622P Combined use of first arrival travel-time tomography (FATT) and full waveform tomography (FWT) on high complex media. Application to the salt BP model: L Guasch, S Operto, V Sallarés, R Carbonell

EIE01623P Land parceling showing perspective in rich gold and uranium deposit in structural and stratigraphic unconformable zones (in the example of Elkinsky uranium-mine district, South Yakutia, Russia): K Soldatov, A Petrov

EIE01624P The structure of north Dobrogea (Romania) deduced from geophysical data: J Gorie, D Gorie, D Dordea, V Srinaceanu

EIE01625P Fuzzy c means clustering and AVA Inversion for marine sediment properties: R Raghavan Nair

EIE01626P Crustal structure in central Italy: New insights from seisimologic data along the Pescara-Latina DSS profile: G Mele, E Di Luzio

Monday 0815h
EME-09 Risks, Resources, and Record of the Past on the Continental Shelf

0815h EME09601L Humans and 135,000 years of climate change: R Hetherington, M Eby, S Marshall, A Weaver

0845h EME09602L The disappearance of Helike-Classical Greece: New geological evidence: G Ferentinos, G Papatheodorou


0915h EME09604L The late pleistocene history of the neoeconomic basin of the black sea and the caspian Khvalynian transgression: V Antonova, A Svitoch

0930h EME09605L Interaction of natural and anthropic factors on recent deltaic evolution: The case of the Adra River delta, northern Alboran Sea: F Lobo, A Jabaloy, P Bárdenas, A Azor, L Fernández-Salas, V Díaz del Río

0945h EME09606L Late Quaternary history of the NW Iberian sedimentary shelf system: H Lantzsch, T Hanebuth, V Bender

1030h EME09607L Effects of changes in volcanic activity on post LGM seismic stratigraphy: Example from the northern Campanian Shelf (Tyrrhenian Sea, Italy): E Martorelli, F Pielralisi, F Chiocci

1045h EME09608L Holocene water level changes in the Vistula Lagoon (southern baltic) based on coastal peatland’s study: G Miotk-Szpiganowicz, S Uscinowicz, J Żachowicz, M Jedrysek

1100h EME09609L Geomorphological indicators of the Late Holocene climatic environments in the Barents Sea

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coast (with Rybachii Peninsula, northwesternmost Russia, as an example): O Korsakova, V Kolk
1115h EME09610L Mineral resources on the continental shelf off Indian peninsula and its genetic processes: B Saha
1130h EME09611L The continental shelf as a repository for dredged sediment: Predicting site suitability: B Flaim
1145h EME09612L Quaternary evolution of Scott Reef, Australia North West Shelf: L Collins, A Shuckstes, M Page, V Testa

EME09613P Internal architecture of sand banks next to the Strait of Gibraltar, Gulf of Cadiz shelf: the imprint of powerful bottom flows: F Lobo, R Noormets, A Maldonado

EME09614P Occurrence and significance of gas-bearing sediments in gdansk deep of the Baltic Sea: V Sivkov, M Ulyanova, N Pimenov
EME09615P A Late Quaternary sedimentary shelf system under hyperarid conditions: Unravelling climatic, oceanographic and sea-level controls (Golfe d’Arquin, Mauritania, NW Africa): T Hanebuth, H Lantzsch

Monday 0830h
EUR-10 The Baltic Sea Basin
0830h EUR10601L The origin of the Baltic Sea depression: The lithospheric memory and glacial erosion: S Slaupa, A Zakarevicus, A Stanionis, E Parselienes, A Ershov, R Slaupiene
0845h EUR10602L Glacial erosion in the Baltic Sea region, and the effect on the post-glacial uplift: W Fjeldskaar, A Amantov
0900h EUR10603L Oil generation and migration in the Baltic basin: Combined results from 2D modelling and geochemistry: P Hoth, S Slaupa, H Wehner, J Piske
0915h EUR10604L History of the Baltic sea basin from the Eemian to the last glacial maximum: T André
0930h EUR10605L The Postglacial Baltic Sea: A dynamic history of water level changes, climate impact and temporal changes in hypoxia: S Björck
0945h EUR10606L Coastlines of the Baltic Sea – zones of competition between geological processes and a changing climate: J Harff, S Usćinowicz, M Meyer
1030h EUR10607L The Holocene evolution of an irregularly sinking coast: The interplay of sea-level rise, accumulation space and sediment supply: R Lampe, M Naumann, W Janke, E Endtmann, H Meyer, R Zieker
1045h EUR10608L Time-space palaeogeographic model for Estonian coastal zone: A Rosentau, J Vassiljev, L Saare, A Kriiska
1100h EUR10609L Palaeo-reconstruction of the Baltic Ice Lake in the eastern Baltic: J Vassiljev, L Saare, A Rosentau
1115h EUR10610L Drowned forests in the Gulf of Gdansk (Southern Baltic) as an indicator of the Holocene shoreline changes: S Usćinowicz, G Miotk-Szpioganowicz, J Zachowicz, M Witak, J Harff, H Lubi, F Tauber
1130h EUR10611L Sediment transport patterns and rapid estimates of net loss of sediments for “almost equilibrium” beaches of tideless embayed coasts: T Soomere, T Healy, A Kask
1145h EUR10612L Modelling coastline change of the Darss-Zingst peninsula with SEDSIM: M Meyer, J Harff, C Dyt
1400h EUR10613L Change of groundwater discharge as response to varying climatic conditions - a model study at catchment scale at the Wismar bay/Baltic sea: M Schafmeister, A Darsow
1415h EUR10614L Settlement development in the shadow of coastal changes – case studies from the Baltic rim: H Jöns
1430h EUR10615L Holocene climatic and environmental changes in coastal Denmark: Linking sea and society: L Jonathan, D Ryves, P Rasmussen, P Kaj Strand
1445h EUR10616L Managing the baltic sea ecosystem: G Schernewski

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**Monday 0830h**

**GET-05 Geothermal utilization – direct use, electrical production, heat pumps, industry and leisure**

0830h GET050601. Geothermal energy for desalination of sea water: G Hiriart

0845h GET050602. Geothermal resource exploration and development in Ethiopia: M Teklemariam

0900h GET050603. Geothermal water for district heating in Reykjavik, Iceland: E Gunnlaugsson; G Ivarson

0915h GET050604. Geothermal reservoir management. The Paris Basin district heating case: P Ungemach

0930h GET050605. Geothermal district heating project Zakopane, Poland: R Bloomquist

0945h GET050606. Recent geothermal activities and developments in Turkey and 2013 projections: O Mertoglu, N Bakir, T Kaya

1030h GET050607. Geothermal (ground-source) heat pumps – a Nordic perspective: J Lund, L Bjelm, R Bloomquist

1045h GET050608. Market development of shallow geothermal applications in Sweden: O Andersson

1100h GET050609. Carbon free energy from the ground – without resource depletion this time?: R Curtis

1115h GET050610. Geothermal heat pump systems using alluvial groundwater in Korea: Y Song, H Kim, G Park

1130h GET050611. The Lund geothermal heat pump plant. From a national point of view a unique district heating facility with regards to size and energy source: L Bjelm, P Alm

1400h GET050612. Examples of combine heat and power plants using geothermal energy: J Lund, A Chiasson, R Bloomquist

1415h GET050613. Case study of the tiwi and Mak-Ban geothermal fields, philippines: J Pedersen

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**Monday 0815h**

**GDP-03 Towards a common reference frame for plate motions and mantle dynamics**

0815h GDP030601. Kevin Burke – overture: T Torsvik, B Steinberger

0830h GDP030602. Feedback between Andean growth and plate motions in the South Atlantic and South Pacific: G Laffaldano, H Bunge

0900h GDP030603. Towards a global geodynamic reference frame that minimizes trench migration and subduction-induced viscous dissipation in the upper mantle: W Schellart, D Stegman, J Freeman

0915h GDP030604. Towards a subduction reference frame: D Muller, I Di Caprio, M Gurnis, T Torsvik

0945h GDP030605. Absolute plate motions and true polar wander in the absence of hotspot tracks: B Steinberger, T Torsvik

1030h GDP030606. Pacific mantle plume motion and bends in hotspot tracks: J Tarduno

1100h GDP030607. Pacific absolute plate motion since 145 Ma: Pushing the fixed hotspot hypothesis to the limit: P Wessel, L Kroenke

1115h GDP030608. Has a four billion year earth reference frame been identified?: K Burke

GDP030609. Inferring plate and mantle motions from the oceanic hotspot record: J O’Connor, P Stoffers, J Wijbrans, J Yokat

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**Monday 0800h**

**GEP-03 Geological basis for estimating the world’s petroleum resources: Challenges and uncertainties**

0800h GEP030601. Perspectives on the distribution of global petroleum resources: P Stark

0830h GEP030602. Why are remaining oil & gas reserves from political/financial sources and technical sources so different?: J Laherrere


0930h GEP030604. USGS methodology for assessing Arctic oil and gas potential: R Charpentier

1030h GEP030605. Oil field resource growth: K King

1100h GEP030606. Geological controls on the distribution of hydrocarbons in sedimentary basins: The impact of the Golden Zone on estimates for conventional global oil and gas resources: P Nadeau

1130h GEP030607. The yin and yang of energy: D Nummedal

GEP030608. Tectono-stratigraphic sedimentary accumulations of the Arctic Region (64°-90°N) that may be prospective for hydrocarbons: A Grantz, R Scott, S Drachev, T Moore, J Howard

GEP030609. Hydrodynamic distortion and alteration of oil pool shape, size, location and volume by flowing subsurface formation water: D Eric

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**Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.**

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**1000h EUR10617L** Remote sensing of the Baltic Sea- an overview: K Ebert, S Kratzer, K Sorensen

**1515h EUR10618L** Information system – Geology and resources of the Russian Sector of the Baltic Sea and its coastal zone: V Zhamoida, B Arseniev, D Ryabchuk, M Spiridonov, D Stepianov, G Gogoberidze

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**1600h Baltic Basin management meeting**

EUR10619P Formation of sand deposits in Estonian coastal sea: A Kask, J Kask, T Soomere

EUR10620P Future seafloor desertification – The Gulf of Finland (the Baltic Sea) case study: H Vallius, V Zhamoida, A Kotilainen, D Ryabchuk

EUR10621P Geological structure of the Quaternary thickness in the Klaipéda Strait, Southeastern Baltic: A Bitinas, A Damusyte

EUR10622P Hazardous geological processes at the bottom and coastal zone of the eastern Gulf of Finland and Kaliningrad area: M Spiridonov, D Ryabchuk, V Zhamoida, E Nesterova

EUR10623P Submerged coastlines in the eastern part of Gdansk Basin of the Baltic Sea: V Sivkov, D Dorokhov, M Ulyanova

EUR10624P The depositional quaternary history of Anholt Loch: Results of a high resolution seismic pre-site survey: A Trampe, S Krastel, V Spiess, T Andrén, R Endler, J Harff

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**The 33rd International Geological Congress, Oslo 2008**
1430h GET05614L Geothermal energy and the balance of power in New Zealand: C Harvey
1445h GET05615L An evaluation tool for the green field Geothermal capacity: R Bertani
1500h GET05616L The future is geothermal – recent developments & future trends in the Australian geothermal energy sector: G Cooper, G Beardsmore
1515h GET05617L Hot spring power generation: A breakthrough to japanese geothermal developments: H Muraoka, K Osato
1600h GET05618L Healing thermonuclear waters in the Novi Sad region: S Beljic, G Sekularac, D Stojiljovic
1615h GET05619L Experiment and modeling on the heat transfer of U-vertical ground coupled heat exchanger: H Lei, N Zhu
1630h GET05620L Numerical model development to predict the performance of a borehole heat exchanger system: B Shim, H Fuji, C Lee
1645h GET05621L Interpretation of thermal response tests for a borehole heat exchanger system: B Shim, C Lee
1700h GET05622L Subsoil thermal models providing the effective thermal power extractable by a geothermal heat pump: case studies in the Pianura Padana plain: F Tinti, L Cerica, R Bruno

Monday 0830h

GHZ-07 Integrating geological hazard assessment into urban planning and management
0830h Introduction
0900h GHZ07601L Detection and monitoring of ground deformation in urban areas with advanced multi-interferogram techniques: N Casagli, F Cigna, C Del Ventisette, V Liguori, G Manno
0915h GHZ07602L Contribution of Permanent Scatterers technique to the analysis of natural subsidence in urban area and multi-temporal urbanization impact: S Del Conte, C Proietti, A Corazza, N Casagli
0930h GHZ07603L Assessment of geological hazards and geoenvironmental conditions of Moscow: V Osipov, V Kutepov, I Kozylakova, P Mklyaev
0945h GHZ07605L Continuous creep dislocation of the valley fault system in Metro Manila, Philippines: Y Kinugasa, K Papiona, R Rimando, K Kurita
1030h GHZ07606L Lake Nyos (Cameroon Volcanic Line): A sustainable degassing method: J Tchouankoue, R Temdjm, C Tchawoua
1045h GHZ07607L Dynamic modelling of volcanic debris flows for urban planning and crisis management: G Falorni, M Nocentini, I Mattiageli, N Casagli
1100h GHZ07608L Interaction of the surface water with the ground water in some cities of northwestern India: The issue becoming a serious geohazard: B Paliwal
1115h GHZ07609L Analytical model to assess the potential for soil and groundwater contamination: D Rogers, M Kaufman, K Murray
1130h GHZ07610L Hydrogeological risk and mitigation measures in Italy: Results of the ReNDiS project: L Guerrieri, E Proietti Pannunzi, P Gallozzi, D Spizzichino, G Vizzini
1145h GHZ07611L A method of geohazards integrated assessment: O Krutkina, V Snezhko, E Minina
1400h GHZ07612L Geologic environment of the Kabul area: J Springer, A Kewla
1415h GHZ07613L Administrative measures for addressing geohazards in a densely populated country: B Marker
1430h GHZ07614L Institutionalizing an engineering geological and geohazard assessment (EGGA) procedure into the environmental impact assessment (EIA) and national land use plan (NLUP) systems: the Philippine experience: M Aurelio

GHZ07615P Earthquake-induced landslides: susceptibility mapping for crisis management: M Arenas, J Naranjo, J Clavero, L Lara
GHZ07616P Flood disaster in the Great Thar desert of the Barmer Basin, Western Rajasthan, India: S Chandra Mathur

GHZ07617P Monitoring urban landslide-prone areas: M Parizzi, J Cajaizero, C Nogueira, P Figueiredo
GHZ07618P Development of GIS system to assist in the management of underground structures that are at risk from corrosion and degradation: K Royse, R Lawley, H Napier, K Linely

GHZ07619P Geohazards in urban historical environment: Rome case study: G Urru, R Funiciello, R Nocera
GHZ07620P Geological, geographical and man-made factors controlling landslide potential of Rize province, NE Turkey: O Tüysüz, S Genç, U Tari, M Ertaç
GHZ07621P Potential risks for shallow groundwater aquifers in coastal areas of the Baltic Sea: B Backman, S Luoma, P Schmidt-Thomé, J Laitinen
GHZ07622P Unsuitable land use planning emphasized by a flooding: The case of Alba (Piedmont-Northern Italy): F Luino
GHZ07623P Liquefaction-Fluidization damage on lower part of landward slope in coastal sand dune: Geo-environmental survey in northern Cyuetsu area on the 2007 off cyuetsu earthquake: O Kazaoka, T Kawabe, K Furuno, Y Kasahara, T Yoshida
GHZ07624P The urbanized system at Campi Flegrei active volcano: Definition of emergency planning and collection zones for different volcanic event scenarios: I Alberico, G Maglione, L Bruno, S Dal Piaz, L Lirer, P Petrosino
GHZ07625P The use of emergency assessment after natural disasters for planning and Restoration. Methodological Examples regarding slope phenomena. Lessons Learned: M Zango-Pascual
GHZ07626P Urban sprawl and landslide risk in Italy: Outcome of IFFI Project: A Triglia, C Iadanza, D Spizzichino

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.
Monday 0830h
GHZ-11 Rock slope movements and early warning of catastrophic failure and related tsunamis

0830h GHZ11601L Real-time monitoring and Early-Warning of the Åkesøns rockslide in western Norway: L Blakra

0900h GHZ11602L Living with landslide: The anconic case history: S Cardellini, P Osimani

0915h GHZ11603L Sub-surface real time monitoring and early warning system (DMS) of the Ånes rockslide: M Lovisolo, L Foglino, L Blakra

0930h GHZ11604L Preliminary results of the real-time monitoring of an unstable slope by GB-InSAR technique: P Mazzanti, F Bozzano, A Prestininzi

0945h GHZ11605L Threshold definition of early warning systems to natural hazards: J Feinberg, Z Medina-Cetina, F Nadim

1030h GHZ11606L Event tree analysis of the Åkesøs rock slide: U Eidsvig, S Lacasse, F Nadim, L Blakra

1045h GHZ11607L Geological and structural model of Ånes landslide (Norway): T Oppikofer, M Böhme, L Blakra, M Jaboyedoff, A Saintot

1100h GHZ11608L Complex groundwater hydraulics of a large active rockslide (Ånes, Norway): S Loew, C Frei, R Thöny, K Evans, M Herfort

1115h GHZ11609L Numerical analysis of the Ånes rock slope based on measured displacements and geotechnical data: V Kveldsvik, H Einstein, B Nilsen, L Blakra, L Blakra

1400h GHZ11610L Modelling the tsunami from the potential Åkesøns rock slide, western Norway: S Glismael, C Harbitz, P Gauer, U Domaas, G Sælevik, A Jensen

1415h GHZ11611L The 1783 Scilla (Italy) rock avalanche: A reference case study for modeling coastal landslides and related tsunamis: P Mazzanti, A Bosman, F Bozzano, F Chiocci, S Martino

1430h GHZ11612L Anatomy of a catastrophe: The 1936 mass wasting and tsunami event in the Nordfjord region, western Norway: N Waldmann, C Simpson, D Ariztegui, E Chapron, A Nesje, L Hansen, K Vasskog, V Burki

1445h GHZ11613L The Tjellefonna fault system of western Norway: Linking late-Caledonian extension, post-Caledonian normal faulting, and Tertiary rock column uplift with the landslide-generated tsunami event of 1756: T Redfield, P Osmundsen

1600h GHZ11614L Surface exposure dating of large massive rock slope failures in western Norway indicate clustering of landslides at the end of the late Pleistocene, early Holocene: R Hermanns, L Blakra, S Ivy-Ochs, P Kubik, R Naumann, H Dahlé

1615h GHZ11615L Geological, structural and geomorphic analysis of potential instabilities at Hegguraksla (Tafjord, Norway): T Oppikofer, L Blakra, M Derron, M Jaboyedoff, A Pedrazzini

1630h GHZ11616L Slope stability and sea floor landslide run-out deposits, western Bowen Island and adjacent Howe Sound, British Columbia, Canada: L Jackson Jr, D Van Zeyl, R Hermanns, D Stead, A Blais-Stevens, C Jermyn

GHZ11618P Spatial analysis of rock slope instabilities in western Norway: M Böhme, L Blakra, M Derron, J Dehls, I Henderson, M Jaboyedoff, A Saintot

GHZ11619P Landslides on accumulation reservoirs – A field applicable hazard and risk evaluation scheme: M Thuering, M Cannata, J Hammer

GHZ11620P Geocryological characteristics and warning system of large rock glaciers failures: G Bondarenko

GHZ11621P Parameterization of earthquake-induced landslides for tsunami modelling: J Clavero, M Arenas, J Naranjo, L Lara

Monday 0830h
GTE-01 General contributions to engineering geology and geotechnics

0830h Introduction

0915h GTE01601L Geological and geomechanical investigations of cataclastic rock samples from various petrologies: towards a better rock mass characterization and geotechnical description: P Christe, P Turberg, V Labioise, A Parriaux

0930h GTE01602L Evaluation of the Post-cyclic loading strength of colloidal silica grouted fine to medium grained sand: M Mollamahmutoglu

0945h GTE01603L Listening to the coefficient restitution of rocks: E Barroso, G Dias

1030h GTE01604L Geotechnical characterization of the river Liz alluviums based on drilling and SPT tests: A Veiga, M Quinta-Ferreira

1045h GTE01605L Using the GeoGauge to measure the stiffness and deformability: M Quinta-Ferreira

1100h GTE01606L The use of high resolution reflection seismic data in sub-sea tunnel prospecting in a basaltic environment: T Varming, J Keser Neish

1115h GTE01607L Capillary barrier effects on sloping layered covers in landslide hazard modelling: V Simeone, D Mancarella

1130h GTE01608L Mitigation and control of geothermal hazards in an open pit mine: R Rodriguez

1145h GTE01609L Geomorphology and slope deformation processes in the Bamyan cliff (Afghanistan):G Delmonaco, C Margottini

1400h GTE01610L Slope stability analysis and liquefaction potential of the head of the Monterey Submarine Canyon, California: F Pascoletti, I Aiello, L Disperati, G Massa, E Aiello


1445h GTE01612L Rockfalls in a tuff slab riddled with manmade caves: integrated techniques for landslide hazard assessment: R Fant, P Canuti, N Casagli, G Gigli, L Lombardi

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.
1500h GTE01613L The huge landslide on which the Machu Picchu citadel was founded: D Spizzichino, C Margottini, M Panizza

1515h GTE01614L Engineering geology, rock mechanics and layout of the Henriksdal highway and railroad relocation project, Stockholm: L Hansen, L Bergkvist, P Nordberg, M Strang

1530h GTE01615L Brittle structures and construction suitability of Precambrian bedrock in southern Finland: Local examples from railway tunnels: M Vaarma, M Airo, T Elminen, P Harju, M Pajunen, P Wasenius, M Wennerström

1545h GTE01616L Subtropical weathered fracture zones in the Oslo Region cause tunnel problems: O Olesen

1600h GTE01617L Rock slide in spillway cut project: trasvase olmos: V Tore, Z Cabarkapa, W Tinto

1615h GTE01618L Geotechnical conditions for E-763 motorway construction from Belgrade to south Adriatic across the landslide Umka – Duboko: B Jelisavac, S Milenkovick, M Jotic, V Vujanic

1630h GTE01619L An application of GIS for drainage controls against fast change of landform: A case study at Pasir open-pit coal mine, Indonesia: Y Choi, H Park, C Sunwoo

GTE01620P A new Gypsiferous Soil classification – Engineering properties of Gypsiferous Soil in Iraq: M Al-Dabbas, T Schanz

GTE01621P Accessing Weathering and Damage of Gneissic Rocks on Historical Building: E Barroso, R Teixeira, V Farroco

GTE01622P Application of geomorphological mapping in site evaluation for hydropower projects: R Goldsmith

GTE01623P Applied geology (geo-engineering) maps for land-use planning: The case of Chiavari municipality (Liguria, Italy): F Faccini, A Robbiano, A Roccati

GTE01624P Bonding and yielding behaviour of some tropical clay soils of Dhaka, Bangladesh: A Hossain, D Toll

GTE01625P Characterization of discontinuity orientation against direction of excavation: B Ro

GTE01626P Design of emergency landslide remediations supported by finite and distinct elements analysis: G Benedetti, G Giacchetti, G Marchi, A Landuzii

GTE01627P Determination of the shear pressure of expansive soils based on the mineralogical content using a more precise method: K Kayabali, S Demir, O Tutuncki

GTE01628P Development of a 3D scanner technique to measure bulk density of fine grained soils: J Delgado-Martín, I Falcon-Suarez, F Sanchez-Tembleque, R Juncosa-Rivera

GTE01629P Distribution and impact of swelling clay in basalt: B Hoijaard

GTE01630P Engineering geological evaluation of slope stability for mine reclamation in California: P Johnson

GTE01631P Engineering geology along the planned northern stretch of the city line (Citybanan) tunnel system, north-central Stockholm, Sweden: U Andersson, R Swindell

GTE01632P Environmental consequence of unplanned urbanization and landslide hazards in Chittagong City, Bangladesh: A Hossain

GTE01633P Estimating submarine debris flow impact forces on pipelines and thicknesses of the overriding turbidity and deposited sediments: A Zakeri, V Maarten

GTE01634P Formative processes of non-tectonic faults in pelitic schist: S Yasamaki, M Chigira

GTE01635P Fractal analysis of landslide boundary traces applied to evaluate slope instability: S Wu, H Wang, J Shi, Y Zhang

GTE01637P Geo-engineering behavior of certain metamorphic rocks from Greece: T Rondoyannni, C Saroglou, G Tsiambas

GTE01638P Geological – Geotechnical investigations of Karst phenomena to gypsumiferous Messinian sediments in Cyprus: A Koutouveli, E Poyiatzi, N Nikolaou, E Kyriacou

GTE01639P Geomechanical features and landslide susceptibility of rock formations in northern Tuscany (Italy): G D’Amato Avanzi, F Falaschi, R Gionneccini, D Marchetti, A Pochini, A Puccinellin, M Valori, D Veneziano

GTE01640P Geotechnical Investigation of the Konakonu tunnel, Trabzon, Turkey: A Kaya, B Fulet

GTE01641P Geotechnical map of Kazakhstan scale 1:1 000 000: D Kasimbekov, A Kozhanazarov, D Kalitov

GTE01642P Geotechnical properties of Bahçeceik Travertine (Gümüşphane, Ne Turkey): H Ersoy

GTE01643P GIS assessment of coastal systems and shore protection structures in nw iberia: Geomorphic and geoeengineering approach: A Pires, R Pinho, A Gomes, A Perez Alberli, H Chamine

GTE01644P Potentials of providing materials for the road base of E-763 motorway, Belgrade- South Adriatic: S Jotic, B Jelisavac, S Gjojkovic, M Jotic

GTE01645P Repair of the slump on regional road r-116, Usce – Ivanjica, section: Savosnica – Ribnjak in the vicinity of Studenica monastery: N Basuric, P Mitrovic, M Jotic

GTE01646P Response of stratified, water-saturated sediments to pushed and free-fall Cone Penetration Tests: A comparative field study: S Stegmann, A Kopf

GTE01647P Subsurface Geology in Osaka plain using borehole database and its application: N Kitada, N Inoue, K Takemura, M Mitamura, A Oshima

GTE01648P The mining-induced geo-hazards and their control in Jiangsu Province, China: B Shi, H Jiang, N Xiong, Y Shi

GTE01649P The unloading deformation of squeezing soil in a fault zone: Z Yang

GTE01650P Thermoanalytical determination of alteration degree of rhyolite tuffs: P Rozsa, S Szakall, E Balazs
Monday 0815h
HPP-01 General contributions to Precambrian geology
0815h HPP01601L The Oldest rocks in China: S Wilde, D Liu, Y Wan
0845h HPP01602L An overview of the Archaean Antongil Block, northern Madagascar: B De Waele, R Thomas, D Schofield, W Bauer, G Walsh, D Lidke, K Goodenough, M Rabarimanana, J Rafahatelo, M Ralison, T Randrianamanaraja
0900h HPP01603L The Archean collisional orogen: The main events of the Belomorian province crustal evolution, Fennoscandian Shield: A Slabunov
0915h HPP01604L Assembling the laurentian craton: The age of a terrane boundary in the Lewisiad Gneiss Complex at Loch Laxford: K Goodenough, Q Crowley, M Krabbendam
0930h HPP01605L Deep crustal structure and evolution of the Neoarchaean Volgo-Uralian granulite-gneiss terrane, east European craton: Evidences of plume related origin of the granulite facies metamorphism: M Mints, I Phillippov, P Babayants, Y Blokh, A Trusov
0945h HPP01606L Structural framework, tectonic cycles and conceptual model for the tectonic evolution of the Fennoscandian Shield in south-eastern Sweden between 1.91 and 1.75 Ga: M Stephens, C Wahlgren, T Hermansson
1030h HPP01607L Geological evolution, characterisation and 3D modelling of the Palaeoproterozoic crystalline bedrock at the Laxemar-Simpevarp site, Sweden: C Wahlgren, P Curtis
1045h HPP01608L AMS data and their relationship to ductile deformation in Palaeoproterozoic crystalline bedrock at two sites in the fennoscandian shield, Sweden: H Mattsson, M Stephens, C Wahlgren
1100h HPP01609L Magnetic lineaments and their relationship to ductile structures and steeply dipping fracture zones at Forsmark, Fennoscandian Shield, Sweden: H Isaksson, M Stephens
1115h HPP01610L Character, kinematics and conceptual model for deformation zones at forsmark in the Fennoscandian Shield, Sweden: O Nordgulen, A Saintot, A Simeonov, M Stephens, A Saintot, A Simeonov, M Stephens
1130h HPP01611L Sub-horizontal reflections at 2–5 km depth at three different sites along the Baltic Sea and the Gulf of Bothnia: Fracture zones or mafic sheets: C Juhlin
1145h HPP01612L IR-spectroscopy and C isotope results of Palaeoproterozoic graphitic schists at outokumpu, Finland: L Taran, K Loukola-Ruskeeniemi, E Kozlovskaya, M Onoshko, N Michailov, I Kolosov
1400h HPP01613L Inclined transpression and multiple reactivation along the Precambrian “Mylonite Zone” of the Sveconorwegian orogen: G Viola, I Henderson
1415h HPP01614L Meso- and Neoproterozoic evolution of southern Siberia: A billion year gap in magmatism and sedimentation: D Gladkochub, E Sklyarov, T Donskaya, S Pisarevsky, A Mazukabzov, M Wingate
1430h HPP01615L Unique sedimentary meso-neoproterozoic deposits of the Southern Siberia: S Anisimova, N Ėllety, V Belichenko, T Dol’nik, S Kovalenko
1445h HPP01616L Geological evolution and minerageny of Early Precambrian Earth’s crust in Circumpolar Region: E Nalivkina
1500h HPP01617L Evolution of tectonomagmatic processes throughout the Earth’s history: E Sharkov, O Bogatikov
HPP01618P Mineralization in pegmatites within the late protérozoic granodiorites of the oban massif southeastern Nigeria: B Ekwueme, K Ero
HPP01619P Neoarchean weathering: Rate of the process and elemental composition of drainage solutions: N Alfimova, V Matrenichev
HPP01620P Oldest diamantiferous eclogites, TTG and basalt-comatites series: A probably model thier impact co-generation: B Blyuman
HPP01621P Precambrian(?) structures beneath the central Greenland Inland Ice from potential field modelling: A Dossing
HPP01622P The Fazenda Gavião high Ba-Sr granodiorite and coeval K-rich plutons as igneous records of arc-continent collision in the Palaeoproterozoic Rio Itapicuru greenstone belt, Sào Francisco Craton, Brazil: E Costa, E Oliveira
HPP01623P Integrated U/Pb and 40Ar/39Ar geochronology, and a conceptual model for tectonic developments in the Svecofennian orogen, central Sweden, from 1.91 to 1.84 Ga: T Hermansson, M Stephens
HPP01624P Paleotectonic setting of the Mesoproterozoic Heddersvatnet Formation basaltic lavas, Telemark, South Norway: J Köykkä
HPP01625P The transscandinavian igneous belt – A unifying model: J Mansfield
HPP01626P New findings of palaeosols in 1.1 Ga sediments and dispelling metasomatism as a detrimental factor: R Mitchell, N Sheldon
HPP01627P Intermediate rocks of some early Precambrian-Quaternary structures: A Romanko
HPP01628P Textural and geochemical characteristics of banded iron formation of Gandhamardan, Keonjhar district, Orissa, India: H Sahoo
HPP01629P Mesoproterozoic growth, rifting, drifting and continental collision in Rogaland, SW Sveconorwegian province: T Slagstad, M Marker, Ø Skår
HPP01630P A Mid-Archaean Malene “iron formation” from Simiat, NW Buksefjorden region, West Greenland: Petrogenetic constraints from trace element geochemistry: M Smith, R Dymek
HPP01631P EPMA U-Th-Pb monazite and SHRIMP U-Pb zircon geochronology of high-pressure pelitic granulites in the Jiaobei massif of the North China craton: X Zhou
HPP01632P Neoproterozoic uranium in Australia’s giant 1.5-1.7 Ga base metal deposits: A record of
Monday 0830h

**HPS-01 General contributions to stratigraphy**

0830h HPS01601L Progress and prospects toward a global chronostratigraphic subdivision of the Cambrian System: S Peng, L Babcock

0900h HPS01602L Middle and upper cambrian type sections of the siberian platform as potential stratotypes for the global stage subdivisions and their basal boundaries: T Pegel, Y Shabanov, S Sukhov, G Abaimova, K Pack, N Lazarenko, I Gogin, I Korovnikov

0915h HPS01603L Regional boundary sections: Towards greater precision in correlating with global standard stratotypes: T Koren

0930h HPS01604L Stratigraphic distribution of stromatoporoids in Silurian Subpolar Urals and their significance for correlation: E Antropova

0945h HPS01605L Recognising the Givetian Taghanic Event in the Devonian Baltic basin and its importance as a high-resolution international correlation datum: J Marshall, P Plink-Bjorklund, E Mark-Kurik

1030h HPS01606L Relationships between magnetic susceptibility of limestones and sea level change (“direct relationship and major crises on the earth”): J Hladil, L Slavik, L Koptykova, P Schnabl, F Vacek, O Babek, M Gersl

1045h HPS01607L Frasnian ammonoids in neritic facies – implications for correlations and the Kellwasser mass extinction: R Becker

1100h HPS01608L Organic carbon-isotope record from radiolarian bedded chert of the Panthalassa across the Triassic-Jurassic boundary; a global Paleo-environmental indicator: A Nagaoka, R Matsumoto, Y Kakuwa

1115h HPS01609L Plio-Pleistocene mammalian biochronology of Russia: theory and practice: A Tesakov, E Vangengeim

1130h HPS01610L Fourth-order climatic sequence stratigraphic model in the terrestrial lacustrine basin: J Wang, H Zheng

HPS01611P Jurassic – Cretaceous boundary in Arctic: The results of the magneto-and biostratigraphic correlation: V Zakharov, M Rogov

HPS01612P The Volgian Stage in the type area, its subdivision and worldwide correlation: M Rogov, D Kiselev

HPS01613P The Prosek section (Middle Volga Region, Russia), possible GSSP candidate for the Callovian Stage: M Rogov, D Kiselev, M Pimenov, A Guzhikov, A Manikin, S Maleonkina, O Goncharenko

HPS01614P Main lines of the development of the lower triassic paleosol from the continental red beds in part of NW Bulgaria and its stratigraphic position: G Adjaniycki

HPS01615P Paleobiogeographic and tectonic changes in Western Siberia in the Eocene-Oligocene transition (by foraminifera): V Podobina, G Tatyany

HPS01616P Progressive vs. discrete slumping: Combining 3D seismic (Nile) with large-scale outcrops (La Peña Canyon, Argentina): J Milana, B Kneller, M Dykstra

HPS01617P Upper ordovician and lower silurian in subpolar urals: T Beznosova, P Mannik

HPS01618P The Late Carboniferous to Early Permian glacial succession at the eastern/southeastern margin of the Paraná Basin, Brazil: Sequence stratigraphy and biostratigraphy: M Holz, P Alves de Souza, R Iannuzzi

HPS01619P Boundary architecture between Triassic epeiric and isolated carbonate platform succession of Karst Dinarides: D Buckovic, B Cvetko Tesovic, M Martinus

HPS01620P Stratigraphy of the Jurassic in the subbetic (Southern Spain): A synthesis: J Molina, A Martin-Algarra, L Nieto, F Rey, P Ruiz-Ortiz, J Vera

HPS01621P Middle-Upper Jurassic volcanic ash layers (bentonites) as potential interbasinal high-resolution stratigraphic and radiometric markers: P Pellenard, J Deconinck, D Fortwengler, D Marchand, F Monna

HPS01622P Cretaceous transgressive deposits above obducted ophiolitic nappe: The moka gora sequence (Western Serbia): G Nirta, F Menna, M Fazzuoli, F Garfagnoli, V Bortolotti, G Principi

HPS01623P Lower Albian microfossil assemblages with Charophyta and Dasycladales as indicator of brackish environment on the of Adriatic-Dinaridc carbonate platform (Mt. Velika Kapela, Karst Dinarides): B Cvetko Tešović, D Bucković, G Pecimotika

HPS01624P Late Cretaceous microfossils of Vojvodina, northern Serbia: M Dunic, G Bogicevic

HPS01625P High resolution cyclostratigraphy and astronomical time scale for the terrestrial late cretaceous Qingshankou formation in the Songliao Basin of Northeast China: H Wu, S Zhang, Q Huang

HPS01626P Microbiostratigraphy of the Taleh- zang Formation, South western Iran basin: I Maghfouri

Moghaddam

HPS01627P Cenozoic stratigraphy of the western Black Sea basin: P Gozhik, N Maslin, O Ivanik, A Klyushyna

HPS01628P New data on the drowning sequence of the paleogenetic carbonate ramp (Trieste Karst, Italy): G Burelli, S Biolchi, S Furlani, D Masetti, S Bensi

HPS01629P Data on Foraminifera Substantiating the necessity of re-establishing the Ladinian Stage: V Podobina

HPS01630P Rare earth and other trace element in biogenic fossils from the Cambrian-Ordovician Boundary section: Shiming Peng, W Yuyuan, W Yinxi, L Huiming

HPS01631P Neogene sediments in north of Iran (Review): F Garib, M Iran Maghfouri

HPS01632P How sedimentology helps stratigraphy (from the example of Yasamal Valley exposure of hydrocarbon bearing South Caspian Pliocene succession): N Huseynova

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.
HPS01633P Lithostratigraphic chart of the republic of Yemen: M As-Saruri

HPS01634P New scale of geological time: O
Ponomarenko, K Espichuk, V Kalinin

HPS01635P Formation: Types of boundaries and their relationship: V Tsyganko

HPS01636P Architecture, paleoenvironment and depositional patterns of the Levant Platform (Siarin, northern Israel and central Jordan): J Kuss, M Bachmann, J Bauer, F Schulze, J Wendler

HPS01637P Reference section for the lower Darrwiliwan (Ordovician) boundary on the Gorny Altai (south of west Siberia): N Sennikov, O Obut, E Bukolova

HPS01638P Geomagnetic field in Holocene time on example of the sections in the Chiric river basin of Uzbekistan: A Stelmakh, H Tochichev

Monday 0830h
ICG-01 International Consortium of Geological Surveys

0830h ICG01601L Geological Surveys of the world: A Dantas, J Machado, J Andrade

0900h ICG01602L Geological surveys in 2030: Major prospective issues: J Varet

0900h ICG01603L An Integrated Strategy for Government-Sponsored Science: M Myers

0915h ICG01604L The GSO’s: “practically useful and scientifically important” – Mission impossible or mission completed?: M Smelror, J Fredericia, J Fredericia

1030h ICG01605L Geological surveys facing global change: J Fredericia, M Smelror

1045h ICG01606L Contribution of geological surveys to prevention and mitigation of geohazards: M Komac

1100h ICG01607L The Geological Survey of Japan, Past, Present and Future: K Hirokazu, K Wakita, Y Suzuki

1115h ICG01608L The contribution of geological surveys to world-class science: J Ludden

1400h ICG01609L International large-scale mapping projects: Results of the European, Asian and North American geological survey cooperation: O Petrov, T Koren’, S Shokalsky

1415h ICG01610L OneGeology – an opportunity for Geological Surveys to make a global impact: J Jackson

1430h ICG01611L Why do we need a global organisation of geological surveys?: P Christmann

1445h Geoscience information and globalisation: Developing collaboration to sustain growth: K Asch

ICG01612P From geological collections to public awareness: S Marineca, A Seghedi, D Dumitras

Monday 0830h
IEA-01 General contributions to geoarchaeology

0830h IEA01601L Ice Age environment and Paleolithic settlements in Northern Russia – Results from geoarchaeological investigations along the Ural Mountains: J Svendsen, P Pavlov, H Heggen, J Mangerud, W Roebroeks, A Hufthammer

0845h IEA01602L The effect of ecological and climatic changes on the human population in Euphrates floodplain (Haditha area): During 11000 Y.B.P to present: A Al-Dulaimy

0900h IEA01603L Holocene climatic variability in southern Italy: Geoarchaeological and tephrostratigraphical data: V Amato

0915h IEA01604L Reconstruction of Alexandria’s coastal zone illuminates Homer’s validity: A Chalaris, S Papamarinospolus, G Papaetheodorou, G Ferentinos

0930h IEA01605L The well in the settlement, a source for human-environmental interaction and palaeohydrological situation in southern Sweden: M Hellqvist

0945h IEA01606L Constraints in identifying historical earthquakes using archaeological information: S Pavlides, A Chatzipetros

1000h IEA01607L Ascent of the Olympians: Geology, climate, or astronomy?: T Wyatt

1045h IEA01608L Did the Egyptians know Norway?: W Wickboldt

1100h IEA01609L Bosnian valley of the pyramids – scientific evidence: S Osmanagich

IEA01610P Prehistorical and historical landscapes at the Killadangan Complex, Ireland: Evidence from geoarchaeology, geomorphology and place-names: K Moore, K Ryan

IEA01611P Investigations on 2400-1600 B.C. charcoal remnants from Tell Mardik: G Coccolini

IEA01612P Geoarchaeological map of the Po plain near Imola, Northern Italy: S Marabini, G Vai

IEA01613P Biogeochemical assessments of possible tsunami deposits in a semi-dry lagoon at Patara, SW Turkey: S Unlu, B Alpar, Y Altinok, C Yaltirak, N Ozer, S Akcer

IEA01614P Integrated geoarchaeological research in the Bishri region, middle Euphrates: M Hoshino, T Tanaka, T Nakamura, H Yoshida, T Saito, K Tsukada, Y Katsurada

IEA01615P Reconstruction of the intentional fire history and environmental transition in the Soni Plateau, central Japan, based on the analyses of charcoal fragments and pollen of the mire sediments: J Inoue, R Nishimura, H Takahara

Monday 0800h
IEE-08 Earth sciences and the ethics of sustainable world cultures

0800h IEE08601L Earth systems and humans: Is our future sustainable?: P Reitan

0830h IEE08602L How should we think about long term consequences?: O Gjelsvik

0900h IEE08603L Sustainable Development – a framework for global climate change collaboration: K Halsnaes

0930h IEE08604L The ‘Lomborg case’ on sustainable development and scientific dishonesty: J Hansen

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.
Monday 0830h
IEI-12 Geological maps in the digital era: Quo Vadis?
0830h IEI12061L Role and influence of digital seamless (harmonized) geological maps in society: K Wakita, T Igawa, S Takarada, Y Fusejima, M Ozaki
0845h IEI12062L Integrated geological map database (GeoMapDB) and WAMS service in geological survey of Japan: S Takarada
0900h IEI12063L Geological ontology model in Korea: J Hwang, K Chi
0915h IEI12064L Delivering geological map information in the digital era: The geological map of Europe on-line: K Asch, A Müller, H Troppenhagen
0930h IEI12065L System of geological mapping in the Slovak Republic: M Polak, V Bezak
0945h IEI12066L The IUGS-CGI international geoscience information testbed 3 – interoperable web services with GeoSciML V 2.0: T Duffy, E Boisvert, B Caradoc-Davies, R Atkinson, C Cipolloni, Y Fusejima, D Percival, S Richard, A Ritchie, J Serrano, D Soller, L Stolen
IEI12067P Standardization and coding of geological map legend: Y Nishioka
IEI12068P Databases (GIS) in the structural geology: Building, processing, modelling and visualisation: U Stepien, P Karnkowski, M Klos
IEI12069P Geospatial analysis framework for depositional synthesis in the Gulf of Mexico: P Ganey-Curry, T Whiteaker, W Galloway
IEI12070P A unique Ukrainian geophysical publication: L Galetsky, N Cherniyenko
IEI12071P Proposed systematic mapping of world seafloor from beach to trench: GOMap (Global Ocean Mapping Project): P Vogt, M Cormier
IEI12072P Sharing subsurface models beneath out feet in living environments: An interactive Google Earth approach: G Sonke, T van Wees
IEI12073P The World Gravity Map (WGM) project: Objectives and status: S Bonvalot, M Sarraill, A Bríals, R Biancale, BGI Team
IEI12074P Tectonic zonation of Atlantic Ocean lithosphere resulted from cluster analysis of geological and geophysical parameters: N Sokolov

Monday 0830h
MPM-04 Platinum-group mineralogy
0830h MPM04601L Challenges to the study of PGE distributions in ores and products: L Cabri
0900h MPM04602L Re-investigation of some PGM and PGM-assemblages: T Evstigneeva, N Trubkin
0915h MPM04603L A new Pd,Pt,Te phase and its stable assemblages – Experimental approach: A Vymazalová, M Drábek, F Laufek
0930h MPM04604L Creararite a Pt-Bi-S mineral: A new occurrence and re-investigation of its chemical formula and crystal structure: A McDonald, S Krstic, B Vandenberg
0945h MPM04605L Self-aggregation of platinum group mineral phases and their genetic significance: V Distler, M Yudovskaya
1030h MPM04606L Platinum-group minerals in chromitite schlieren from the ouen island, new caledonia ophiolite: J González-Jiménez, T Augé, F Gervilla, L Bailly, J Proenza
1045h MPM04607L Origin of unusual oxidized platinum-group minerals (PGM) in the chromitite of Mugla Ophiolite, southwest Turkey: I Uysal, F Zaccarini, M Sadiklar, M Tarkan, H Bernhardt, G Garuti, S Bigi
1115h MPM04609L Diversity of Platinum group minerals (PGM) in chromitites from Brazil, preliminary results: G Garuti, F Zaccarini, J Proenza, N Angeli, O Thalhammer
1400h MPM04610L Os-rich alloys and Ru-Os sulphides from ultramafic complexes and placer deposits: constraints from osmium isotopes: K Malitch
1430h MPM04611L Pt-Pd selenides from river placers, northern Finland: K Kojonen, M Tarkan, F Melcher, R Törnroos
1445h MPM04612L Native PGE-alloys from alluvial deposits in Finnish Lapland: R Tornroos, K Kojonen, M Tarkan
1500h MPM04613L Platinum-group mineralogy in Cu-Ni-PGE deposits of the Paleoprotorozoic Monchegorsk complex, Kola Peninsula, Russia: T Grokhovskaya
1515h MPM04614L Platinum-group minerals in the PGE deposit of the Fedorovo-Pansky layered intrusion, Kola Peninsula: V Subbotin, A Korchagin, D Gabov, E Savchenko, E Nozdra, S Mineev, P Korchak
PM04615P Genesis of PGM from ophiolite complex: N Tolstyk, E Sidorov, A Kozlov
PM04616P Origin of Russian pentlandite by desulphurization reaction of laurite duringalteration of ophiolite chromitites: F Gervilla, J Gonzalez-Jimenez, T Kerestedjian, J Proenza
PM04617P Overview of the platinum-group mineralogy in ophiolites of the Urals, eastern Mediterranean and Caribbean orogenic belts: Implication for the origin of PGM in ophiolitic chromitites: G Garuti, J Proenza, E Pushkarev, I Uysal, F Zaccarini
PM04618P Platinum group elements in the chromites of the uae semail ophiolite: S Alaebed

Monday 0830h
MPN-01 General contributions to metamorphic petrology
MPN01601P P-T-t path and metamorphic evolution of Ribeira Belt based on textural reactions, thermobarometry and pseudosections: T Bento dos Santos, J Munhá, C Tassinari, P Fonseca, C Dias Neto
MPN01602P Petrology of lelva metamorphic sequence (South Carpathians): Evolutional pattern and tectonic affiliation: L Zaharia

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium's oral presentations.
MPN01603P Pluton emplacement and contact metamorphism at the Caribbean – SouthAmerican plate boundary (Alta Guajira, Colombia): M Lina Fernanda, Z Carlos Augusto

MPN01604P Geochemistry and provenance of metamorphosed rocks of the radiocov metamorphic complex, Papuk, Croatia: V Bisevac, D Balen, F Finger, D Tibijas

MPN01605P P – T pseudoequilibration of high – P, high – T granulites and eclogites, breaksea sound, Fjordland, New Zealand: M De Paoli, G Clarke


MPN01607P Petrology and P-T evolution of eclogites from northwest Spitsbergen: S Elvevold, E Ravna, L Labrousse

MPN01608P Fluid-metapelitisation interactions in subduction-zone melange: implications for mass transfer at the forearc slab-mantle interface: Y Mori, M Shigeno, T Nishiyama

MPN01609P Serpentinitization of wedge mantle peridotites in the Marianas forearc: H Maekawa, K Murata, K Yamamoto, H Yokose

MPN01610P Metasomatic zones around jadeite: Evidence for chemical interaction with Sr- and Ba-rich fluids during exhumation: M Shigeno, Y Mori, T Nishiyama

MPN01611P Margarite-corundum schists (metamorphosed high-sulfdiation alteration zones): A Pérez-Aguilar, C Juliani, I. Monteiro, J Bettencourt, A Fallick

Monday 0830h
MPN-02 Metamorphism and metamorphic processes

0830h MPN02601L Prograde history of the Archean Salma eclogites and piclogites (Belomorian eclogite province): A Konilov

0845h MPN02602L Metamorphic evolution of lower crustal granulite xenoliths from the Bakony – Balaton Highland volcanic field (W-Hungary) and its correlation with the formation of the Pannonian basin: J Dégi, K Török, R Abart

0900h MPN02603L Petrology and metamorphism of amphibolites with corundum from Priepolje, Dinaric ophiolite belt (Southwestern Serbia): D Milovanovic, S Eric, L Seke

0915h MPN02604L The eclogite-facies Allalin gabbro of the Zermatt-Saas ophiolite, Western Alps, a record of subduction zone hydration: K Bucher, R Grapes

0930h MPN02605L Obmaphcite breakdown reactions in relation to eclogite exhumation rates: D Moecher, E Anderson

0945h MPN02606L Bell-shape garnet zoning development during eclogitization of the corona textures: T Larikova

1030h MPN02607L Non-equilibrium thermodynamics and the coupling between deformation and metamorphism: A Ord, B Hobbs

1045h MPN02608L Contribution of quantitative chemical imaging to the understanding of metamorphism and to thermobarometric estimates: V De Andrade, O Vidal, E Lewin, B Dubacq, J Ganne

1100h MPN02609L Contribution to the reconstruction of geological evolution of the metamorphic basement of the cordillera darwin, Tierra del Fuego, Chile: P Arico’, P Ferla, A Decima

1115h MPN02610L Metamorphic inversion in the continental collision belt of the Himalayan orogen: G Ghatak, N Na

1130h MPN02611L Metamorphic evolution of the Helanshan Complex, Khondalite belt of the North China Craton: W Leung, G Zhao, M Sun, C Yin

1145h MPN02612L Transition of metamorphic series from the kyanite- to andalusite-types in the Altai orogen, Xinjiang, China: Evidence from petrography and calculated KMnFASH and KFMASH phase relation: C Wei, W Wang

1400h MPN02613L Fluid rock evolution of high-T calc-silicate marbles: Constraints on the P-T-T history of a granulite facies terrain: F Gallien, M Aberra, E Bjerg, S Delpino, B Castro de Machuca

1415h MPN02614L The retrograde PTX_fluid evolution of the Bamble sector – The record of fluid inclusions and fluid composition corrected phase diagrams of calc-silicates and cornudum-bearing rocks from Froland: B Sorensen

1430h MPN02615L High – pressure geology from the base of a doubly thickened magmatic arc, Breaksea Sound, Fjordland, New Zealand: M De Paoli, G Clarke, K Klepeis

1445h MPN02616L Low grade metamorphism and petrogenesis of the metamorphic rocks from Mouvic Area of northwest Iran: M Pohtkoohi

MPN02617P Deep crustal compressional reworking and associated P-T-D-Fluid evolution of UHT granulites: Recent data from eastern Ghats, India: K Das, S Bose, S Karmakar

MPN02618P The evidence of tension and shear deformation in Andalusite porphyroblasts, in the metamorphic rocks of Hamadan region, Sanandaj-Sirjan zone, Iran: L Izadi Kian, M Mohajel, A Alavi

MPN02619P Petrographic study of the mylonites N-W of Iran: K Mohammadiha

MPN02620P Magnesite-sapphire-gedrite high Mg-Al rocks from the Belomorian Mobile Belt, Northern Karelia: N Serebryakov

MPN02621P Ophiolite diapir geodynamics and oil-gas formation in forearc paleozone: R Yurkova

MPN02622P Granitization of metaagbbro-norites of the Belomor complex, Kandalaksha Bay area, Baltic Shield: S Korikovsky, L Khodorevskaya

MPN02623P Granitization of Metagabbro-Norites of the Belomorian Group: Compositional changes during fluid-rock interaction processes: L Khodorevskaya

MPN02624P The retrograde metamorphic evolution of UHT rocks of the Voronezh Crystalline Massif (Russia): M Novikova, S Pilsug, K Savko

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.

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MPN02625P Pressure – temperature – deformation – fluid evolution of a diatexitic granite-migmatite ensemble from the northern part of Eastern Ghats Granulate Belt, India: S Bose, K Das, J Torimoto, S Karmakar, M Arima

MPN02626P Very low grade–low grade metamorphism in Erzincan, NE Turkey; an example of epizonal metamorphic conditions: M Gucer, Z Aslan

MPN02627P Chlorite-smectite mixed layers in the “Macigno” sandstone formation: S Battaglia, F Cavalcante, L Leoni, M Lezzerini

MPN02628P Petrology and geochemistry of the Avren Complex, Rhodope Massif, Bulgaria: A Mogessie, G Scheipl, C Bauer, K Krenn, M Georgieva

MPN02629P Zircon age determinations and geothermo-barometry from the sierras Valle Fértil and La Huerta: F Gallien, A Mogessie, E Bjerg, S Delpino, B Castro de Machuca

MPN02630P Apatite as a fluid regime indicator of BIFs metamorphism of the Voronezh crystalline massif (VCM), Russia: K Savko

MPN02631P Mineralogy of East-Siberian platform metakimberlites and serpentinized deep xenoliths in them: E Sokolova, E Spiridonov

MPN02632P SiO2–Al2O3 miscibility at dry granite facies conditions revealed by formation of epitaxially exsolved Quartz inclusions in Corundum from a Sapphirine-Garnet boudine, Bamble granite terrane, SE Norway: J Kihle, D Harlov, O Frigaard, B Jamtveit

MPN02633P Pseudosection analysis for talc-Na pyroxene-bearing piemontite-quartz schist in the Sanbagawa belt, Japan: T Hirajima, T Ubukawa, K Mtsumoto

MPN02634P Metamorphic events in Precambrian East-European platform (EEP): K Savko, A Samsonov, V Glebovitsky

MPN02635P Anisotropic growth of high-P metamorphic garnet and morphological study: W Nishikanbara, M Toriumi

MPN02636P Retrogressed eclogite from the Variscan chain of Sardinia, Italy: G Cruciani, M Franceschelli, G Mallus, M Puxeddu, D Utzeri

MPN02637P Phase equilibrium modelling in the MnNCi(K)FMAASH system applied to the Metamorphic Evolution of the Ceán Schists (Malpica-Tui Unit, NW Iberian Massif): A López-Carmona, J Abati, J Reche

MPN02638P A framework of metamorphic interactions approach to the study of relations among deformation, metamorphism, fluid flow and melt migration in contact and regional–contact metamorphic settings: J Reche, F Martinez

MPN02639P Tracking cretaceous subduction and exhumation of the Scotia complex on Elephant Island (S. Shetland Islands, Antarctica) through metabasite pseudosection modelling in the MnNCKFMSASH system: J Reche, R Acevedo, F Martinez

MPN02640P Tectonic evolution of blueschist in southern central Andes: T Hyppolloito, C Juliàn

MPN02641P Northern Andes blueschists and their tectonic evolution: A Bustamante, C Juliàn, E Essene, C Hall

MPN02642P Geothermobarometry – A new database for the comparison of mineral chemistry and different geothermobarometric methods for metamorphic rocks: J Dégi

MPN02643P The Telêbiya shear zone: A major deformation feature of the Palaeoproterozoic crust in the west Lithuania: I Véjelytë
1600h  MRD08614L Geochemistry of sulphidic and graphic argillites of the Kidd-Munro Assemblage: toward a vectoring tool for concealed base-metal sulphide mineralization in the vicinity of the Kidd Creek mine area, Ontario, Canada: J Peter, D Layton-Matthews, J Chapman, B Gemmell

1630h  MRD08615L Trace-element budget of the Que River shale: Exploration implications of hanging-wall modification of sulfide minerals at the Hellyer deposit, Tasmania: D Layton-Matthews, B Gemmell, R Large, J Peter

1645h  MRD08616L REE-rich hydrothermal zircons in footwall chloritic hydrothermal haloes (Iberian Pyrite belt, Spain): a textural and chemical interpretation: E Pascual, M Toscano, T Donaire

1700h  MRD08617L Polygenetic origin of coticules and tourmalinites associated with the Sakoli VMS deposits, Central India: B Bandyopadhyay

MRD08618P Preliminary investigation for base and precious vein-type (sulphide) mineralization associated with quartz rhyolite porphyry (Uramah, Mudiah area, Abyan Province), Yemen: M Ba-bitat

MRD08619P Chahgaz: A metamorphosed Zn-Pb-Cu volcaniclastic massive sulphide deposit in the Sanandaj-Sirjan zone, southern Iran: F Mousivand, E Rastad, J Peter

MRD08620P Barika Au-Ag-(Zn-Pb-Cu) deposit: First recognition of gold-rich Kuroko-type VMS mineralization in Iran: A Yarmohamadi, E Rastad, F Mousivand, M Watanabe

MRD08621P The post-collisional crustal extension setting: Important mineralizing environment of volcanic-associated massive sulphide deposits in Jinsihaijiang orogenic belt: L Wang, Z Hou, X Mo, M Wang, Q Xu

MRD08622P The Francisco I. Madero massive sulphide deposit (Zacatecas State, Mexico): A jurassic metamorphic remobilization: J Trilla, G Levresse

MRD08623P Metalliferous deposition at a very early stage on Deception Island: S Tourn, D Mutti, A Caselli

MRD08624P Hydrothermal volcanic-sulfuric, orogenic gold mineralization, and gossans in the Ipitinga Group: M Faraco, J McReath, M Costa

MRD08625P Distribution of REE in sulphides from Uzelga deposit, South Urals: M Rimskaya-Korsakova, A Dubinin

MRD08626P Geology, facies architecture and volcanic-stratigraphic evolution of the 1.89 Ga Petkinäij South volcanic-hosted Zn-Pb-Cu-Au-Ag massive sulphide (VMS) deposit: D Schlatter, R Allen

MRD08627P Geochemical and tectonic characteristics of Neogene bimodal volcanic rocks in the Hokuroku Kuroko district, northeast Japan: T Mizuta, D Ishiyama, H Satoh, H Thura Kyaw, T Ogata, S Mikami

MRD08628P Petrology and geochemistry of the Cu-rich zone at the Brunswick No. 6 Zn-Pb-Cu-Ag VMS deposit, Bathurst Mining Camp, New Brunswick (Canada): C Conde, D Lenz, J Walker, F Tornos

Monday 0830h  
MRD-16 Iron Oxide Copper Gold deposits

0830h  Introduction

0845h  MRD16601L Iron oxide-Cu-Au deposits in the northern part of the Fennoscandian Shield: O Martinsson, Å Allan, T Niiranen, C Wanhainen, P Eilu, J Ojala, V Nykänen, P Weihe

0915h  MRD16602L The Mantoverde district: example of the distal chalcopyrite-sericite-carbonate facies of zoned IOCG systems: A Rieger, R Marschik, M Diaz, M Chirardia, J Spangenberg

0930h  MRD16603L Iron oxide Cu-Au vs. magnetite-(apatite) deposits: Examples from northern Chile: R Marschik, M Chirardia, S Jorge E., A Rieger, R Mathur

0945h  MRD16604L The magmatic source of IOCG deposits: Paragenetic and thermodynamic evidences: L Fontboté, A De Haller

1030h  MRD16605L The Carajás Province iron oxide-copper-gold hydrothermal systems: L Soares Monteiro, R Xavier, C Souza Filho, I Torresi, D Bortholoto, R Augusto

1045h  MRD16606L The tectonothermal and metasomatic evolution of the Mount Isa Inlier and the formation of iron oxide Cu-Au deposits: M Rubenach, N Oliver, L Fisher, M Bertolli

1100h  MRD16607L Constraints on uranium introduction into a hematitic breccia (Oak Dam IOCG prospect, Olympic Dam region): Can we take a leaf out of the unconformity-U page?: G Davidson, H Paterson, S Meifre, R Berry

1115h  MRD16608L Noble gas and halogen evidence on the origin of IOCG mineralising fluids: M Kendrick, N Oliver, M Honda, D Phillips, G Mark, D Gillen

1130h  MRD16609L Associations and origins of the giant magnetite and related copper and gold deposits in the Carboniferous Valerianovskoe belt, Kazakhstan: R Herrington, T Hawkins, M Smith

1145h  MRD16610L The iron oxide-apatite deposits in the Ningwu Cretaceous Basin in the lower reach of the Yangtze river valley, China: J Mao, Y Chen, J Yu

MRD16611P Geological and genetic constraints of the hydrothermal breccias-hosted copper mineralization at Eo-paleozoic Jilalbas Basin in Northeastern Brazil: Evidences of IOCG class deposits: C Parente, N Botelho, C Oliveira, R Santos, M Garcia

MRD16612P Geophysical and petrophysical characterisation of IOCG prospects in northern Sweden: A Sandin, S Elming, R Berggren

Monday 0830h  
NWG-02 Geology and disposal of nuclear waste: Nordic approach – special aspects of the disposal in crystalline bedrock

0830h  NWG02601L Importance of geosphere in hard rock nuclear waste repositories: J Andersson

0900h  NWG02602L Methodology for iterative and integrative geomodelling in a multidisciplinary workspace: R Munier
0915h NWG02603L Structural characterization of brittle deformation zones in crystalline rocks: contribution to SKB site investigation study for the disposal of highly radioactive nuclear waste: V Giulio, Ø Nordgulen, A Saintot, G Venvik-Ganerød
0930h NWG02604L Geoscientific understanding of the Forsmark site: K Ahlbom, K Skagius Elert
1030h NWG02605L Geoscientific understanding of the Olkiluoto Site: J Mattila, L Wikström, S Paulamäki
1100h NWG02606L Geoscientific understanding of the Laxemar – Simpevarp site: L Stenberg, A Winberg
1130h NWG02607L Åspö Hard Rock Laboratory most essential results in a 20 year perspective: P Hultgren
1400h NWG02608L The engineering focus for repository design in hard rocks: D Martin, R Christiansson
1430h NWG02609L Bridging the gap between site characterisation and performance assessment models for radionuclide transport modelling in the Åspö task force on modelling of groundwater flow and transport of solutes: G Gustafson, B Gylling, J Selroos
1500h NWG02610L The Posiva Flow Log Difference Flowmeter (PFL DIFF), developed investigation equipment in the nuclear branch: P Rouhiainen
1515h NWG02611L Laboratory investigations of porosity, diffusivity and sorption characteristics of crystalline rock: E Selnert
1600h NWG02612L Strategy for determination of thermal properties in crystalline rocks: J Sundberg, P Back, R Christiansson, L Ericsson, J Wrafter
1630h NWG02613L Major and trace elements in surface and ground waters in two near-coastal granitoidic settings in eastern Sweden: P Ronback
1645h NWG02614L How to licence a disposal site for spent nuclear waste?: K Hutrì, T Varjoranta, R Paltemaa
1100h PER01605L Sustainable development of non-renewable resources: A perspective for artisanal and small scale mining in India: M Deb
1115h PER01606L Considerations related to determinants in prospect evaluation: A Orheim
PER01608P Our Energy Paradigm in Flux: P Kay

Monday 0830h
SES-08 New insights into basin analysis: Palaeoenvironments, geochemistry and depositional processes
0830h SES08601L Higher latitude depositional systems – changes in latitudes, changes in attitudes: J Suter
0900h SES08602L Sediment diagenesis in high latitude sedimentary systems. Climate influences on mineral and geochemical processes during early diagenesis: R Worden
0930h SES08603L Submarine channels in high latitudes: Why are they so different to their equatorial counterparts?: J Peakall, R Corney, G Keevil, I Kane, B McCaffrey, D Masson
0945h SES08604L Geochronological and palaeoecologic studies of large deltas in cold tidal seas (case of the North Dvina, White Sea, Northern Russia): N Zaretskaya, A Simakova, O Uspenskaya, A Belichenko
1030h SES08605L Sequence stratigraphy of the fluvial Wapiti Formation, Grande Prairie region, Alberta, Canada: F Fant, O Catuneanu
1045h SES08606L Storm-dominated sediment transport in the shallow Beaufort Sea: G Lintern, S Solomon, T Walker
1100h SES08607L Evolution of the peripheral foreland basin and the Siberian craton deformation as a result of Cadomian orogeny: J Sovetov, S Moiseev, V Blagovidov
1115h SES08608L Transgressive – regressive cyclicity of the Eastern Parathethys from the Oligocene to Pliocene and eustasy: A Zastrozhnov, S Popov
SES08609P Geometric analysis of sedimentary filling of the Guadalquivir foreland basin (Betics, Spain): F Roldán-Garcia, C Marín-Lechado, J Rodríguez-Fernandez, J Azañón-Hernandez
SES08610P Litho-geochemical criteria of hydrocarbons distribution and transformation in the sedimentary systems: M Tugarova
SES08611P 38 ky East Asian monsoon record from sediments of Lake Biwa, Japan: P Meyers, K Takemura

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.
**Monday 11 August – Late Morning**

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The following symposia begin in this session. Some symposia continue on the next day. Next day presentations may be found in the next day section.

**Monday 1030h**  
**AAA-10 Arctic paleoclimate and its extremes**

1030h **AAA10601L** Information on the early Holocene climate constrains the summer sea ice projections for the 21st century: **H Goose**, E Drieschaert, T Fichefet, M Louitre

1100h **AAA10602L** Ecosystem response toDansgaard-Oeschger climate variability: **B Wohlforth**, L Ampel, M Blaauw, D Veres

1130h **AAA10603L** The Barents-Kara ice sheet coming and going the last 60,000 years: **J Mangerud**

1400h **AAA10604L** Ice marginal features by the shelf-based Kara Ice Sheet within the western Polar Urals, northern Russia: **M Henriksen**, D Nazarov

1415h **AAA10605L** Abrupt changes in the heat flux into the Arctic Ocean reflected in late glacial-Holocene marine climate records from the Norwegian-Barents Sea-Svalbard margins: **M Hald**, K Husum, L Wilson, K Rorvik, J Junttila

1445h **AAA10606L** Reverse phase valley and shelf glaciations on northernmost Greenland – the importance of an open Arctic basin as a moisture source: **P Möller**, N Larsen, K Kjær, S Funder

1545h **AAA10607L** Stratigraphic correlation in the Arctic Ocean using Mn cycles: **L Löwemark**, M Andersson, M Jakobsson

1500h **AAA10608L** Climate of the Siberian arctic through mesozoiic: **V Zakharov**

1515h **AAA10609L** Evidence for PETM carbon cycle disruption in the high Arctic: Results of the WUN-pACE initiative: **T White**, L Kump, C Junium

1600h **AAA10610L** Arctic early Paleogene environments with special emphasis on the Paleocene-Eocene thermal maximum: A dinoflagellate and biomarker perspective: **A Sluijs**, U Roehl, S Schouten, H Brinkhuis, F Sangiorgi, T ACEX & WUN-pACE Science Partie

1615h **AAA10611L** Reconstructing surface water conditions during the Eocene Arctic Azolla event using proxy and model data: **E Speelman**, J de Leeuw, G Reichart, J Sewall, H Brinkhuis, A von der Heydt, D Noone, J Sinninghe Damste

1630h **AAA10612L** Paleogene foraminiferal facies of Spitsbergen reflecting features of semi-isolated Arctic Ocean: Results of the WUN pACE initiative: **J Nagy**

1645h **AAA10613L** Arctic forests and climate in the Eocene greenhouse world 50 million years ago: Results from WUN pACE team: **J Francis**, J Poultier


**AAA10615P** The zonal branch of the North Atlantic Current in the SW Barents Sea during the last glaciation – early Holocene transition: **S Aagaard-Sørensen**, K Husum, M Hald, J Knies

**AAA10616P** Planktonic foraminiferal fauna in the Fram Strait during the last millennium: **K Zamelczyk**, K Husum, M Hald

**AAA10617P** Sediment and landscape signatures of ice-dammed lakes in NW Russia: **A Lysá**, M Jensen, E Larsen, I Demidov, O Fedin

**AAA10618P** Late glacial – Holocene clay minerals elucidating glacial and paleoceanographic history in the SW Barents sea: Preliminary results and future plans: J Junttila, K Husum, **M Hald**

**AAA10619P** Quartz grain microtextures and clay minerals as indicators of Neogene glacial conditions in the Central Arctic Ocean: **N Immonen**, K Strand, S Turunen

**AAA10620P** A high resolution 230 years sea surface temperature record from the North Atlantic based on diatoms: **A Miettinen**, N Koc

**AAA10621P** Towards a revised stratigraphy for the Kapp Ekholm section – a key locality for the glaciation history on Svalbard: **M Jensen**, L Håkansson, A Hermes

**AAA10622P** Development of Mg/Ca temperature calibrations for benthic foraminifera in the European Arctic: **K Skirbekk**, L Wilson, M Hald, D Kiltgaard Kristensen

**AAA10623P** Beryllium isotope concentrations in sediment cores from the arctic ocean: **E Sellén**, M Jakobsson, M Frank, P Kubik

**AAA10624P** Palaeoclimate of the last two millennia in northern Norwegian fjords: **L Wilson**, M Hald, K Husum

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**Monday 1030h**  
**IEE-07 Geothetics**

1030h **IEE07061L** Actual tasks for geothetics: **V Nemec**

1100h **IEE07062L** Philosophical and epistemological debate in Italy within an ethical perspective of Earth sciences: **M Picente, S Peppoloni, C Bosi**

1115h **IEE07063L** Geothetical problems in exploration and production wells drilling under complex conditions: **V Chistyakov**

1130h **IEE07064L** Aggressive earth and environment outreach: Geothetical way to harness full potential of geosciences for society: **A Ahluwalia**

1400h **IEE07065L** Global approach to geothetics: A first attempt for validation: **J Vare**

1430h **IEE07066L** Reflections of the Christian social teaching in geothetics: **L Nemcova**

1445h **IEE07067L** Earth ethics: Reaches how far?: **P Reitan**

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1500h 1EE07608L Importance of geothermal view points for the revision of systematics in petrology: N Nishiwaki
1600h Open Debate on Geoethics
  1EE07609P Internationalisation of mineral resources: Ethical dilemmas and possible principles: N Nikitin
  1EE07610P The social responsibility of mining business in public consciousness: S Nikitin, N Nikitin
  1EE07611P Ethical aspects on the geological properties evaluation: A Byrsk-Rapala
  1EE07612P About the role of the state in development of market of the venture capital in sphere of subsoil use: I Nikitin
  1EE07613P Cereal subsidies, increased landsliding, and agricultural land degradation: A case history from the Southern Apennines with EU policy and ethical significance: J Wasowski, C Lamanna, D Casarano, P Costelov
  1EE07614P Geoethics in the family of geosciences: V Nemec, L Nemcova

Monday 1030h
  1EI-14 Decision support systems: best practice in using GIS and geoscience data to help society's problems
  1030h 1EI14601L Application of GIS to spatial analysis of the distribution of thickness of alluvial gravel – a case study of the Vistula River valley (S Poland): B Figarska-Warchol

1045h 1EI14602L Computer technology of integrated interpretation of the geological-geophysical data on regional profiles: V Galuev, S Malinina
1100h 1EI14603L Bringing geothematic maps to the public: M Beres, A Kühni, U Schindler
1115h 1EI14604L Portal of Geohazards in the Czech Republic – New ways of dissemination of geoscientific information: R Tomas, O Moravcová
1130h 1EI14605L Monitoring groundwater with GIS, real-time observations and modeling tools: H Colleuille, S Beldring, Z Mengistu, J Andersen, Y Oeverlie, L Haugen, W Wong
1145h 1EI14606L The need for speed, data optimization for large data sets: D Percy, W Garrick, M Harvey
  1EI14607P Ore mineral exploration with GIS modeling based on USGS models in zone studies: S Delavar, S Heidari
  1EI14608P Integrated data analysis by GIS INTEGRO in solving the nature-use problems: E Cheremisina
  1EI14609P Constructing applied integrated information-analytical systems for monitoring of the state and use of mineral resources: O Mitrakova, D Arakcheev, A Popov
  1EI14610P Communicating volcanic hazards using GIS: H Villegas
  1EI14611P From geoscience data to hazard assessments and safer developments: J Walsby

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Monday 11 August – Early Afternoon

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The following symposia begin in this session. Some symposia continue on the next day. Next day presentations may be found in the next day section.

**Monday 1400h**
**COC-03 Risk and vulnerability assessment related to geological storage of CO₂ – Part 1**

1400h **COC03601L** Framework for evaluating effective trapping for certification of geologic CO₂ storage sites: C Oldenburg, S Bryant, J Nicot

1430h **COC03602L** A flexible framework for integrated Performance Assessment (PA) of geological CO₂ storage using Evidential Support Logic (eSL): R Metcalfe, P Maul, S Benbow, C Watson, D Hodgkinson, A Paulley, L Limer, R Walke, D Savage

1445h **COC03603L** A vulnerability evaluation framework for geological storage of carbon dioxide: A Karimjee, K Ritter

1500h **COC03604L** Assessing the long-term performance of the In Salah CO₂ storage site: P Ringrose, M Iding

1515h **COC03605L** Development of guidelines on CO₂ storage site selection and qualification: J Aarnes, M Carpenter, T Flach, S Solomon, S Selmer-Olsen

1600h **COC03606L** Understanding the impact of the level of characterization on long-term performance predictions at geologic CO₂ sequestration sites: G Bromhal, W Harbert, H Viswanathan, W Carey, B Strazisar, B Kutcho, R Pawar, G Guthrie

1615h **COC03607L** The CO₂ community grid – a virtual research environment for the simulation of CO₂ sequestration: K Johannsen, A Kopp, P Binning, O Tourunen, C Anderlik

1630h **COC03608L** Geomechanical properties in caprock exposed to CO₂: E Skurtveit, E Aker, M Soldal

1645h **COC03609L** Determination of fluid flow changes and mineral alterations in caprocks due to CO₂ treatment: J Wollenweber, S Alles, A Busch, A Kronimus, H Stanjek, B Krooss

1700h **COC03610L** Experimental study of supercritical CO₂ reactivity on portlandite. Implications for wellbore cement integrity: O Regnaut, V Lagneau, H Schneider

1715h **COC03611L** Evaluation of roof integrity above a CO₂ storage site in a coal mine: T Kempka, T Fernandez-Steger, R Azzam

Monday 1400h
**EIE-02 Seismic imaging in petroleum exploration and production**

1400h **EIE02601L** Depth imaging – seeing the invisible: V Vinje

1430h **EIE02602L** Mapping top Paleocene reservoirs using a “direct” fluid detection attribute: P Saure-Thomassen, R Rostrup, A Kemp, A Alskier, M Ao

1445h **EIE02603L** Using of the scattered waves for increase seismic image quality in fold-thrust areas of the Siberian platform: M Smirnov, A Kartashov

1500h **EIE02604L** Subsalt imaging in the Gulf of Mexico: R Sollie

1515h **EIE02605L** 3D plane-wave imaging of wide-azimuth data: N Chemingui, R Van Borselen, M Orlovich, E Fromy

1530h **EIE02606L** Integrated imaging and interpretation for lithology and fluid prediction and pre stack inversion: M Rhodes, Å Osen, S Oyvind, S Foss, B Shea, R Heffernan

1545h **EIE02607L** Increased seismic resolution and penetration from a towed dual-sensor streamer: S Phare, D Carlson, W Söllner, A Day, M Widmaier, G Cambois

**EIE02608P** Geology-geophysical and seismic facial models of the lateral heterogeneity on examples oil/gas bearing Jurassic sediments of the Turanian Platform: S Radjabov, T Sim

**EIE02609P** Diagnosis of dilatancy zones and fluid saturated layer-reservoir of the section by method of 3D vertical seismic sounding: O Babazade, N Babazade, B Romanov

**EIE02610P** Time to depth conversion based on acoustic impedance inversion: M Vidovic, D Takac

**EIE02611P** Imaging of the Snohvit field using OBC data: H Aronsen, T Hellmann, S Johansen, L Klefstad, G Ronholt

Monday 1400h
**EUR-06 Collisional orogeny in the Caledonian-Appalachian Orogen**

1400h **EUR06601L** The Baltic-lapetus boundary in the Scandinavian Caledonides and a revision of the Middle and Upper Allochthons: P Andréasson, D G Gee

1415h **EUR06602L** Caledonian tectonostratigraphy in northern Scandinavia – A review and implications for models of late-stage collisional orogenesis: M Anderson, M Steltenpohl, A Andresen, W Hames

1430h **EUR06603L** Petrogenesis of the Buck Creek mafic-ultramafic complex, southern Appalachians, USA: Implications for ophiolite evolution and emplacement in collisional orogens: V Peterson, J Ryan

1445h **EUR06604L** Problems of geometric evolution in the hinterland of the Central Norwegian Caledonides: P Robinson, A Solli, K Hollocher, M Terry, R Tucker, E Walsh, P Osmundsen

1500h **EUR06605L** Ductile extrusion during Scandinavian Orogeny in Scandinavian Caledonides: D G Gee, S Claesson, A Ladenberger

1515h **EUR06606L** The anatomy of a major late-stage thrust in the Caledonian crust of northern Scandinavia: M Anderson, W Hames, A Stokes

1600h **EUR06607L** Exhumation of UHP rocks and emplacement of Archean-Proterozoic garnet peridotites

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.
in the hinterland of the central Norwegian caledonides: P Robinson, M Terry, T Krogh, R Tucker, B Bingen
1615h EUR06608L In search of the Alleghanian Orogeny – must sediments lie?: S Samson, J Hietpas, D Moecher
1630h EUR06609L The north-east Greenland caledonides – an overview: N Henriksen
1645h EUR06610L Juxtaposition of Svalbard’s Caledonian terranes by thrusting: D G Gee
EUR06611P Seismic reflection imaging of crustal deformation central Scandinavian Caledonides: D Dyrelius et al

Monday 1400h
GDP-07 Coupling lithosphere and mantle processes
1400h GDP07601L Treating tectonic plates and mantle convection as a single, integrated system: Simulations in 3D spherical geometry: P Tackley, H van Heck, T Nakagawa
1430h GDP07602L A global coupled model of mantle convection/lithosphere dynamics: G Iaffaldano, H Bunge
1445h GDP07603L Mobile plates and work: Convection models with geophysical constraints: S King
1515h GDP07604L The influence of lower mantle viscosity on plate velocity time-dependence in numerical mantle convection models: J Lowman, A Gait, C Gable
1600h GDP07605L Numerical modelling of sub-lithospheric small-scale convection and implications for pacific plate-mantle interaction: J van Hunen, M Ballmer, O Cadek
1630h GDP07606L Intermittent plate tectonics?: P Silver, M Behn
1645h GDP07607L Integrating deep earth dynamics in paleogeographic reconstructions of Australia: C Heine, R Müller, B Steinberger
1700h GDP07606L Global and regional sea level change: Implications from coupled models of the lithosphere and mantle: S Spasojević, L Liu, M Gurnis
1715h GDP07609L Late Cenozoic slab window and mantle upflow tectonics of the northern Canadian Cordillera: D Thorkelson, J Madsen, C Slaggert, K Breitsprecher
GDP07610P Collision, coupling, and formation of megplates and continental transforms: Implication for global transmission of changes in plate motions: T Anderson
GDP07611P Forward models of dynamic topography in the South West Pacific since the Mesozoic: L DiCaprio, M Gurnis, D Muller
GDP07612P Depressions as a surface response of mantle plumes on Venus: A Fahl, C Stein, U Hansen
GDP07613P Linear stability study for a convection problem with temperature-dependent viscosity: F Pla, A Mancho, H Herrero
GDP07614P Mesozoic post-collisional to postorogenic magmatic activities and crustal interaction with mantle along the Yangtze River, Anhui Province: Y Du, W Zhou, X Guo, Y Zhang, Y Cao
GDP07615P Cratonic keels and a two-layer mantle tested: Plate motion examples of mantle expulsion during craton-to-craton convergence and of its lateral induction during their separation – Mediterranean, Atlantic-Arctic and India: M Osmoston

Monday 1400h
GEP-09 Linking petroleum systems and plays to sedimentary basin evolution – Part 1
1400h GEP09601L Development of extensional basins and its influences on reservoir distribution and trap types: R Gabrielsen, J Faleide
1430h GEP09602L Technique of prediction of the buried uplifts having oil and gas prospects: V Staroseliev
1445h GEP09603L Integrated petroleum prospectivity assessment for a deep-water frontier basin based on structural restoration of the margin and 2D burial history modelling – Mentelle basin, southwestern Australia: I Borissova, C Nicholson, A Krasssay, V Neumann, R Di Primio, C Boreham
1500h GEP09604L Basin analysis in onshore petroleum exploration – A case study from the Kufra basin, southeast Libya: H Bjornseth, L Gindre, A Schimanski, S Higgins, H Gröger, C Vandre, M Geiger
1600h GEP09605L What are the implications of depth-dependent and uniform lithospheric extension for thermal history at rifted margins: Insights from dynamical models: R Huismans, C Beaumont
1630h GEP09606L Probabilistic Tectonic heat flow modelling for basin maturation: Method and applications: J Van Wees, R Abdul-Fatah, D Bonte, S Cloetingh
1645h GEP09607L Classification of rifted sedimentary basins according to their structural genesis and evolutionary history: M Corver, H Doust, S Cloetingh
1700h GEP09608L Comparative analysis of sedimentation and oil and gas potential of the west-Siberian and the north sea sedimentary basins: G Myasnikova, E Okosnodynamic, A Shpilman
1715h GEP09609L Integrated stratigraphic analysis as a guide to oil exploration: An example from Miocene rocks of northern Colombia: M Pulido Taborda, V Torres Torres, J Martinez Rodriguez

Monday 1400h
GTR-01 General contributions to geological remote sensing – Part 1
1400h GTR01601L Research on the reasons for Anguli Lake’s shrinkage and drying up using satellite remote sensing: Y Qiao, S Liu, Y Ma, Y Hao, J Lu
1415h GTR01602L A technique based on non-linear transform and multivariate analysis to merge thermal-IR data with higher-resolution multispectral data: L Jing
1430h GTR01603L Application of an impact crater discovery tool on data from Finnmark, Norway: S Krogl, H Dypvik, A Chicarro, A Rossi, L Pesonen, B Ettelmüller
1445h GTR01604L Research of active fault in Linfen basin using RS technique: W Jiang, L Gong, J Zhang
1530h GTR01605L Comparison between SAR dataset and geology in Roma area: M Amanti, C Cesi, E Vittori

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Monday 1400h
IEA-03 Geophysical and geochemical archaeology
1400h IEA03601L Search of some Egyptian pyramids: Instruments, methods, first results: D Pavlov, V Tsyplakov, O Khavroshkin
1415h IEA03602L Geochemical indicators utilization in the settle of archaeological domestic areas of activity: M Caria
1430h IEA03603L Patina on the bedrocks and monumental buildings of the Giza region, Egypt: F Zalewski
1445h IEA03604L Study of the effectiveness of the OhmMapper resistivity-meter for 3D investigation in Sentinum roman town: M Botiacchi, T Colonna, S Mariani, F Mantovani, M Medri
1500h IEA03605L The Red Pyramid: Chemical composition of external blocks: O Khavroshkin, D Pavlov, I Roschina
1515h IEA03606L Life, civilization and archaeology: O Khavroshkin
IEA03607P Seismic noise of Snowfru (Dahshru) pyramid: Space influence: O Khavroshkin, D Pavlov, V Tsyplakov
IEA03608P Seismic-physical structural model of pyramids and wave focusing: O Khavroshkin, D Pavlov, V Tsyplakov
IEA03609P The Red Pyramid: A surprise of recumbent external block: O Khavroshkin, A Trushnikova
IEA03610P Palaeopedological and magnetic study of the archaeological complex Kryyk-Oba in the Western Kazakhstan region: V Alekseeva, A Alekseev, V Demkin, M Sdykov
IEA03611P Pyramid-like mount Kailash (Tibet): Structure and construction: S Balalaev, A Redko
IEA03612P Seismic fields and signals peculiarities besides archaeology monuments and other systems: S Osmanagich, O Khavroshkin, V Tsyplakov
IEA03613P Further interpretation trends of shallow georesistivity anomalies obtained near San Piero a grado Basilica (Pisa): G Finzi Contini
IEA03614P Construction ground investigations inside the Aachen Cathedral using invasive and non-invasive methods: T Fernandez-Steeger, C Gruetzner, K Reichert
IEA03615P Seismic acoustic research on identification of archeological sites in submersible zones: S Anghel, G Ion

Monday 1400h
IEI-13 Developments in geoscience information i) the developing world ii) uncertainty
1400h IEI13601L Geological conservation using traditional knowledge in Yazd, Iran: A Malekabassi
1415h IEI13602L Building capacity in Africa through geoinformatics application in geochemistry: P Dirks, K Lehner, A Wilson, G Chunnert, M Cloete, A Nyblade
1430h IEI13603L The importance of contextual elements in the design and management of developing countries GIS projects: C Asato
1445h IEI13604L Geoinformatics applications for the verification of coastal erosion sensitive segments along Southern and Southwest coastal zone of Sri Lanka: A Wickramasooriya, S Nawaratne, P Wickramamagame
1500h IEI13605L 3D geological & geophysical uncertainty and ambiguity – Towards combined 3D geological and potential field inversions: L Ailleres, M Jessell, E de Kemp
1515h IEI13606L Quantifying and visualising uncertainty for multiple solutions in structural models: C Bond, Z Shipion, A Gibbs
IEI13607P Least cost path in prospecting field work with speed model related to terrain slope and land use by genetic algorithm: L Ochoa Gutierrez, L Martinez Martinez, L Nino Vasquez
IEI13608P Earth system science theory and the application demonstration on Qinghai-Tibet Plateau: S Bi
IEI13609P Earth data Namibia- archival data given a new look: U Schreiber, A Nguno
IEI13610P Geodatabase management and dissemination: K Mhophjene
IEI13611P The achievements of geo-information construction in China: Y Tan, D Yang, J Li

Monday 1400h
MRD-19 Uranium deposits
1400h MRD19601L Uranium 2007: Resources, production and demand: R Vance
1430h MRD19602L Geodynamic conditions for forming large and rich uranium ore provinces: I Abramovich, E Vysokoostrovskaya
1445h MRD19603L Uranium Metallgeny of Mongolia: Y Mironov
1500h MRD19604L Uranium Metallgeny of the Baltic Shield: E Afanasiieva, V Mikhailov, C Caillat, M Cunev
1515h MRD19605L Uranium in Fennoscandia: Occurrence, exploration & resources: O Åkä, C Caillat
1600h MRD19606L Accessory mineral paragenesis and U potential of late orogenic potassic granites of southern Finland: M Cunev, M Brouand, L Lauri, T Rämo, P Kister, C Caillat
1615h MRD19607L Structural framework and hydrothermal event history in relation to uranium mineralization along the southeastern margin of the Fennoscandian Shield: P Sorjonen-Ward, M Cunev, S Mertanen, Y Systra

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1630h MRD19608L The greatest new uranium region in the Republic of Sakha (Russia): A Tarkhanov
1645h MRD19609L Uranium potential and regional Metallogenic characteristics in China: J Zhang, Z Li
1700h MRD19610L Basement rock parameters that control the genesis of high-grade unconformity-type uranium deposits in the Athabasca basin: I Annesley, K Wheatley, K Wasyliuk, A McCready, Z Hajnal
1715h MRD19611L Complex seismic signatures of the Athabasca basin subsurface: B Pandit, Z Hajnal, I Annesley, D White, B Reilkoff, A McCready, D Wallster
MRD19612P Fluid inclusion studies of radioactive mineralized pegmatites at Gabal Abu Furad area, central eastern Desert, Egypt: E Esmail
MRD19613P Geochemistry of U-bearing minerals from an uranium-phosphate mine area: M Marques da Silva Cabral-Pinto, M Manuela Vinha Guerreiro Silva, A Margarida Ribeiro Neiva
MRD19614P Peculiarities in the formation uranium deposits of «unconformity» type in folded regions of Southern Siberia: G Cherkasov, A Dolgushin
MRD19615P Structural framework and event history relevant to uranium mineralization near the Paleoproterozoic-Archean unconformity in eastern Finland: P Sorjonen-Ward, O Aikás
MRD19616P Classification and the regularities location mineral types ores on the deposits of Streltsovkey ore district: A Nikolskiy, E Solntseva, A Shulgina
MRD19617P The mineralogical zoning and natural ore types of the Elkorn ore field (The Republic of Saha-Yakutia, Russian Federation): E Solntseva, A Shulgina, G Birka, A Nikolskiy
MRD19618P Geochemical studies and uranium distribution on granitic: Pegmatitic rocks of Wadi Hawashiya, Ra's Gharib District, north Eastern Desert, Egypt: A Mohrmi, M Shalaby

Monday 1400h

PIP-01 General contributions to comparative planetology

1400h PIP01601L Acidification mechanisms on Early Mars: Global production of phyllosilicates under weathering and sedimentary allocation: D Fernández-Remolar, R Arvidson, R Morris, R Amils, L Friedlander, O Prieto-Ballesteros, D Gómez-Ortiz, F Gómez
1430h PIP01602L A comparison of terrestrial glacial volcanic landforms with Interior Layered Deposits on Mars based on HRSC, HRSC-AX, and HiRiSE data: E Hauber, K Gwiner, M Hillie, F Preusker, R Jaumann
1445h PIP01603L Do salt domes exist within the Martian Valles Marineris rift system?: D Baioni, F Wezel
1500h PIP01604L Identification and characterization of martian polygonal terrains by image analysis: J Saravia, P Pina, L Bandeira, J Antunes
1515h PIP01605L Terrestrial analogue of boulder trails on Mars, Phobos, Eros and Itoh: Tool marks on the slopes of Pico volcano, Fogo, Cape Verde Islands: S Master

1600h PIP01606L Stratigraphy and surface ages on Lapetus and other saturnian satellites: N Schmedemann, T Denk, R Wagner, G Neukum
1615h PIP01607L Multi-ring tectonic structures: Formation mechanisms and the research objectives: D Gurevich
1630h PIP01608L Galilean satellites of Jupiter: Geophysical data and composition: V Kronrod, O Kuskov, T Kronrod
1645h PIP01609L Internal structure of icy satellites of Jupiter and Saturn: O Kuskov, V Kronrod, A Zhidikova
PIP01610P Moon exogenic seismicity: Cosmogenic information content: O Khavrovkin, V Tsyplov

Monday 1400h

SES-03 Intra-basaltic sediments and weathering horizons as monitors of climate change

1400h SES03601L Paleo-environmental interpretation of basalt-derived paleosols: A Singer
1430h SES03602L Trace element mobility in the red and green boles (interbasaltic paleosols) from the Deccan flood basalt near Pune, India: M Sayyed
1445h SES03603L Records of short-term and rapid climate change from interbasaltic paleosols: N Sheldon
1500h SES03604L Evidence for strongly alkaline weathering conditions in interbasaltic Ordovician paleosols despite evidence for a tropical humid paleoclimate: implications for early land plant evolution: P Jutras, R Quillon, M Le Forte
1515h SES03605L Geochemistry of pedogenic minerals from interbasaltic strata as a means of paleoclimatic reconstruction: N Tabor
SES03606P Weathering characteristics of an interbasaltic red bole horizon occurring within the Deccan Basalts near Shrivardhan along the western coastal tract of India: R Pardeshi, M Sayyed, R Islam
SES03607P Interpreting Deccan red bole horizons: Explosive volcanism across the KTB: M Widdowson, S Janet
SES03608P Weathered tephras from volcanic provinces monitor Cenozoic terrestrial climate change: Cases from the British Isles, Greenland and Iceland: M Riishuus, D Bird

Monday 1400h

STT-07 Three-dimensional aspects of subduction zone processes: Insight from dynamic modelling, tectonic reconstructions and obse

1400h STT07601L Linking plate motions to the mantle: T Torsvik, B Steinberger
1430h STT07602L Subduction dynamics and its expression in plate motions: M Gabriele, S Goes, F Capitanio
1445h STT07603L Laboratory models of three-dimensional mantle flow and plume dispersion driven by rollback subduction and back-arc extension: C Kincaid, K Druken, R Griffiths
1500h STT07604L Effects of rheology and surface boundary condition on subduction dynamics: B Kaus, T Becker
1515h STT07605L Structural evolution of the Bahaman borderlands and serpentinite mélange units near Camagüey (Central Cuba): A shallow subduction channel until Eocene arc-continent collision?: D van Hinsbergen, M Ituralde-Vinent, P van Geffen, A García-Casco, S van Benthem

1600h STT07606L The subduction zone flow field from seismic anisotropy: A global view: P Silver, M Long

1630h STT07607L Structural features of the subducting slab beneath the Kii Peninsula, central Japan: Seismic evidence of slab segmentation: J Park

1645h STT07608L Multiple stages of continental subduction during India/Asia convergence: Insight from seismic tomography and tectonic reconstructions: A Replumaz, A Negredo, S Guillot

1700h STT07609L Slab imaging in continental subduction under the Northern Apennines: I Bianchi, J Park, N Piana Agostinetti, V Levin

1715h STT07610L Mélange rheology in relation to varying seismic style along subduction interfaces: A Fagereng, R Sibson, S Ellis

STT07611P A 3D convection thermal model for subduction zones with the characteristic gallerin scheme finite element method: K Zhang, D Wei, S Cao, H Huangfu

STT07612P Structural styles of the Timor Trough subduction zone based on 2D seismic data interpretation: M Da Costa, A Escalona

STT07613P Three-dimensional subduction-induced mantle flow patterns near lateral slab edges: W Schellart

STT07614P 3-D Numerical modeling of subduction-driven deformation in an oceanic upper plate: D Stegman, F Capitario, W Sharpes, F Rebecca, L Moresi, D May

STT07615P Cluster analysis of the 3D instrumental seismicity within a subduction zone (Caribbean, Cocos and North American tectonic convergence): Implications for a kinematical tectonic model: J Giner-Robles, R Pérez-López, J Martínez-Díaz, M Rodríguez-Pascua, J González-Casado

STT07616P A snapshot of the subduction zone processes: Twin earthquakes along the Kurile-arc: M Raeesi, K Atakan

STT07617P Kinematics of slab tear faults during subduction segmentation and implications for Italian magmatism: G Rosenbaum, M Gasparon, F Lucente, A Peccerillo, M Miller

STT07618P Multipole boundary elements method applied to planetary scale geodynamics: G Morra, P Chatelin, P Tackley

STT07619P Physical properties, textural variation and fluid flow near the Nankai Mega-Splay Fault zone exposed in the Shionomisaki canyon, off Kii Peninsula, Southwest Japan: R Anma, Y Ogawa, K Kawamura, Y Michiguchi, Y Shipboard Scientific Party

STT07620P Romania seismicity in the last two decades (1986-2007): A Placinta, F Radulescu, Z Malita

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Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.
Monday 11 August – Late Afternoon

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The following symposia begin in this session. Some symposia continue on the next day. Next day presentations may be found in the next day section.

Monday 1600h
AAA-06 Arctic petroleum provinces (iii): Petroleum geoscience of the North American and Greenland basins – Part 1
1600h AAA06601L The genetic evolution of arctic north america and greenland: S Creaney, M Sullivan
1630h AAA06602L Geology and petroleum potential of the Arctic Alaska petroleum province: K Bird, D Houseknecht
1700h AAA06603L Geology and petroleum potential of rifted margins of the Canada basin: D Houseknecht, K Bird
1730h AAA06604L Tectonic evolution and petroleum systems of the BeaufortMackenzie Basin as interpreted from long-offset ArcticSPANTM 2-D seismic data: M Dinkelman, N Kumar, J Helwig, P Emmett

Monday 1600h
AFR-03 Geology of Africa and development strategies for the mining sectors of African countries
1600h AFR03601L Old regional geochronology data as targeting tool for exploration – A data compilation project of Mozambique: F Korkiakoski, V Manjate, S Mujui
1615h AFR03602L Mineral resources potential in Mozambique: T Lehto, Y Pekkala, E Daudi, J Marques
1630h AFR03603L The kibaran tin and columbitemartonlite provinces in eastern D.R. Congo: Structural control, SnO2- SHRIMP vs muscovite K-Ar geochronology and implications to Rodinia and Gondwana tectonics: J Kokonyangi, D Dunkley, T Itaya, M Arima, M Yoshida
1645h AFR03604L Deformation and mineralisation in the Basement Complex of Nigeria: O Okunlola
1700h AFR03605L Analysis of gravity and aeromagnetic anomalies of the Central and southern parts of the Logone Birni region, Northern Cameroon: A Eyike Yomba, V Paolotti, D Raval, E Manguelle-Dicoum, J Fairhead

AFR03606P Sequence stratigraphy, depositional environment of phosphorite deposits evolution (case of the Gafsa Basin, Tunisia): F Chaabani, A Ounis
AFR03607P Determined the dip directions of the beds by detecting their mineralogical composition in the feiran oil field, Gulf of Suez, Egypt: M Ghorab
AFR03608P The Atchiza layered gabbro in Tete, geological setting, geographical features and ore-forming potential: D Jamal, A Muchangos, D Ibрайmo, J Cossa, R Coutinho, R Larsen B.


Monday 1600h
EUR-09 Geology of the Southern Permo Basin area – Part 1
1600h EUR09601L Overview of the Southern Permo Basin Atlas Project – Management and results: H Doornenbal
1630h EUR09602L Sharing the SPBA mapping database interactively in 3D: G Sonke, J van Wees, H Veldkamp, H Doornenbal
1645h EUR09603L The southern permain basin atlas: Insights on the proterozoic to cenozoic tectonic evolution of west central Europe: T Pharaoh, P Krzywiec, M Geluk, F Kockel, M Scheck-Wenderoth, H Thybo, O Vejbaek, J van Wees, M Dusar, C Krawczyk
1715h EUR09604L Major depositional cycles of the Southern Permo Basin area: G Bachmann

Monday 1600h
GHZ-03 Integrated studies of tsunamis and other geohazards in coastal regions – Part 1
1600h GHZ03601L Liquefaction flow failures in fjord-deltaic sediments: Towards a stability evaluation of the Trondhein harbor area, Norway: J Lheureux, A Emdal, L Hansen, O Longva
1615h GHZ03602L Fractal dimensions of western Indonesian south coastal lines and their correlation with the impact of Tsunami: S Kusumayudha, L Theresia
1630h GHZ03603L First ever tsunami along the coast of Kerala, India: cause and effect: M Joseph
1645h GHZ03604L Eye-witness reports of the Indian ocean tsunami of December 26, 2004, from the Khao Lak area, Thailand: A Skelton, M Sanden, J Asavanant, M Jakobsson, M Ioulalen
1700h GHZ03605L Subsidence of the US Gulf Coast and crustal loading, geophysics, and geodesy: R Dokka, E Ivins, R Blom
1715h GHZ03606L Paleo-tsunamis in the Swedish sedimentary records: N Mörner, S Dawson

Monday 1600h
HPP-04 From Rodinia to Nuna and beyond: Precambrian supercontinent reconstructions delving deeper in time – Part 1
1600h HPP04601L The geodynamic map and evolution history of the Neoproterozoic supercontinent Rodinia: Z Li, S Bogdanova, A Collins, A Davidson, B De Waele, R Ernst, I Fitzsimons1, R Fuck, D Gladkochub, J Jacobs, K Karlstrom11, S Lu, L Natapov, V Pease, S Pisarevsky, K Thrane, V Vernikovsky
1630h HPP04602L An indentor tectonic model for the eastern Grenville province: C Gower, S Kamo, T Krog
1645h HPP04603L A four-phase model for the Sveconorwegian orogeny, Fennoscandia, and the Sveconorwegian-Grenville correlation: B Bingen

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.
1700h HPP04604L The Amazonian craton evolution overview: Insights for supercontinent reconstructions: M Geraldes
1715h HPP04605L From the centre to the periphery or even apart—the Rio de la Plata craton and Rodinia: K Saalmann, M Remus, L Hartmann

Monday 1600h
HPS-11 The EARTHTIME project
1615h HPS11602L Solving Earth history problems with the Astronomical Time Scale: L Hinov, J Ogg
1630h HPS11603L Synchronizing rock clocks of Earth history: K Kuiper, A Deino, F Hilgen, W Krijgsman, P Renne, J Wijbrans
1645h HPS11604L Testing the Milankovitch hypothesis: U-Pb geochronology and spectral analysis of Eocene lacustrine sequences, Green River Formation, Wyoming, USA: M Machlus, J Ramezani, S Bowring, S Hemming
1700h HPS11605L Magnetostratigraphy, radiometric dating, and carbon isotope analysis of continental strata in western Canada: implications for the age of the Paleocene-Eocene boundary: M Evans, J Lerbekmo, L Heaman, K Muehlenbachs
1715h HPS11606L New U – Pb age for Precambrian – Cambrian boundary in the Meishucun section, China: Y Wang, K Zhang, J Chen, b Song, Y Wang, J Yang, H Li
HPS11607P Refining the mid-Triassic timescale: Q Crowley, D Condon
HPS11608P Galactic years and general stratigraphic chart: Y Papin

Monday 1600h
IEI-15 Accessing and sharing geoscience information: the problems and issues of disseminating geoscience data in a digital era (including digital rights management, licensing, IPR, copyright, public sector data for free or a fee, and liability)
1600h IEI15601L New public data structure for geological-, groundwater- and drinking water data in Denmark: M Hansen
1615h IEI15602L Challenges for open data sharing in geochemistry: K Lehnert, S Brantley
1630h IEI15603L Fee or free, for better or for worse? An exploration of the issues around charging, access and legal liability of geoscience information: R Hughes
1645h IEI15604L Databank Underground Vlaanderen on the crossroads: Which way to go in order to keep up the sustainable evolution of the integrated web-based geoscience-portal?: K De Nil, K Boel, T De Rouck, M Van Damme, L Vanthournout, V Vanwesenebeek, J Vergauwen
1700h IEI15605L Delivering data and information over the internet in a usable fashion: M Carter, R Scanlon, A Donovan

1715h IEI15606L Online dissemination of geoscientific information: A case example: R Sewell, C Lee
IEI15607P Col-laboratories, tools to foster the collaborative attitude within a scientific community while protecting data assets: P Diviacco

Monday 1600h
MPM-06 Melts and glasses in mineralogy and petrology
1600h MPM06601L Highly hydrated rhyolitic glass: L de Pablo, M Doval, A de La Iglesia
1615h MPM06602L A Si and O K-edge XANES Study of SiO2-GeO2 glasses: G Henderson, L Cormier, D Neuville
1630h MPM06603L Optical in situ observation of crystallization processes in basaltic melt with the moissanite anvil cell: F Schiavi, N Walte, H Kepler
1645h MPM06604L Structure and mixing properties silicate melts: (SiO2-Na2O-MO with M= Mg, Ca, Sr, Ba): D Neuville
1700h MPM06605L Glasses in homogenized melt inclusions as a source of information on primary melt composition: I Rass
MPM06606P Fluid-bearing evolved silicate melt inclusions in peri-olivine xenoliths from the Carpathian-Pannonian region: K Hidas, C Szabo, E Bali, T Guzmics, Z Zajacz, K Yang, I Kovacs
MPM06607P A kinetic approach of sulfur behaviour in borosilicate glasses and melts: Implications for sulfide incorporation in natural melt glasses: M Lenoir, D Neuville, A Grandjean
MPM06608P The influence of the fO2 on the solubility of Pt and Pd in water-saturated silicate melts: P Gorbachev, N Bezmen, M Azif, A Naldrett
MPM06609P The effects of Ti and Zr nucleating agents on crystallization mechanisms in CaO-Al2O3-SiO2 supercooled liquids: E Strukelj, D Neuville, M Roskosz, P Richet
MPM06610P Experimental study of crystal columbite solubility in granitic melts at T = 650-850°C and P = 0.3–4 Kbar: G Borodulin, V Chevychelov, G Zaraisky

Monday 1600h
MNP-03 Mineral replacement and mass transfer in hydrothermal systems: From the nanoscale to the megascule – Part 1
1600h MNP03601L Albitionisation – from mineral grains to giant ore deposits: A Schmidt Mumm, C Connor
1630h MNP03602L Albitionisation of plagioclase in nature and experiment: A Putnis, A Engvik, J Fitz Gerald, J Hövelmann
1645h MNP03603L The complex hydrothermal history of granites: Multiple fieldspar replacement reactions under sub-solidus conditions: O Plümper, A Putnis, H Austreheim
1715h MNP03605L K- and Si-metasomatism created K-feldspar megacrystic granite in the outer shell of the Vrådal pluton, Telemark, southern Norway: A Sylvester, L Collins

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.
Monday 11 August – Posters

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The following symposia contain only poster presentations.

Monday 0800h–1900h
AAA-06 Arctic petroleum provinces (iii): Petroleum geoscience of the North American and Greenland basins

AAA06713P Late Permain oxygen-deficiency in the East Greenland Basin: Implications for the potential source rock formation in Northern Europe and Arctic regions: J Nielsen, Y Shen, J Nielsen, N Hanken, S Grundvåg

AAA06714P Geological structure and oil-and-gas potential of spitsbergen continental margin: V Shilykova

Monday 0800h–1900h
COC-03 Risk and vulnerability assessment related to geostorage of CO2

COC03718P Modelling of CO2 injection and seismic data analysis in the Utsira formation: J Lippard, D Kennedy, C Hermanrud, A Cavanagh

COC03719P Monitoring of CO2 after injection in geologic reservoir – techniques: E Miranda-Barbosa, P Aagaard, B Kvamme

COC03720P Measuring the sealing capacity of caprocks for CO2 storage, Nordland Shale example: E Miranda-Barbosa, B Kvamme, P Aagaard

Monday 0800h–1900h
EGG-01 General contributions to environmental geology

EGG01628P Geology and texture of sediments of the Neka-Rud drainage basin and factors contributing flooding susceptibility in the basin: E Rahimi, S Khodabakhsh, M Kalani, r Lak

EGG01629P What will be reserved to the beaches of the Santa Catarina’s coastal zone, southeastern Brazil, to the next 40 years?: N Horn Filho

EGG01630P Eolian dynamics in the Souss Plain: Modelling approach of the fight against the sanding: A El Ghannouchi, M El Wartiti, A Malaki, S El Bahi

EGG01631P Hazard of riverside erosion in the urbans along the Mekong River, Vietnam: Q Ha, C Vu

EGG01632P The ground water resources and geological calamity in Yangtze Delta Area: K Guo, Q Zhang, K Guo

EGG01633P Paleosols and paleo-landscapes of Late Moscovian (Carboniferous) erosion surfaces of the Russian Plane: V Alekseeva, P Kabanov, T Alekseeva, A Alekseev

EGG01634P The mineral composition of a minerotrophic peat bog contaminated by trace metals through atmospheric deposition: V Smieja-Król, B Frälikiewicz

EGG01635P Liquidation of the heavy metal contamination of underground waters using electro-absorption processing method in technogenic regions: A Rudenko

EGG01636P Grain surface features in environmental determination of Quaternary deposits in North eastern Tunisia: A Chakroun, B Deniaux, J Miskovsky, D Zaghibi-Turki

EGG01637P State of wastes in the Balan mining area, East Carpathian (Romania): I Robu, I Robu

EGG01638P Sedimentation of suspended material in the water-storage reservoir of the Boštanj power plant on the river Sava: B Dolinar

EGG01639P Estimating the contribution of the authigenic mineral component to the long-term reactive silica accumulation on the western shelf of the Mississippi River Delta: M Presti, P Michalopoulos

EGG01640P Revegetation of acid rock drainage producing surface using a combined system of phosphate coating, neutralization and artificial soil: J Kim, J Lee, T Kim, S Park, D Yeon, S Cho

EGG01641P Rapid changes of the seabed hydrogeomorphological features within the Stântu Cheorge-Vădu littoral zone (Romanian Black Sea coast): R Dimitriu, G Oaie, S Szobotka, S Radan, G Opreanu, S Dan

EGG01642P Trace metals and C and O stable isotope composition in the recent tufa from four karstic rivers in Croatia: N Cukrov, K Željko, S Lojen, J Vázquez Navarro, I Grabar

EGG01643P Distribution of heavy metals in bottom surface sediments of Beppu Bay in southwest Japan: A Amano, M Kuwae, T Agusa, H Takeoka, K Omori, T Sugimoto

EGG01644P New progress on the studies of the three-dimensional urban geological survey in Shanghai: Z Wei, X Yan, Y Zhuang, Z Hai, H Wang, Y Shi

EGG01645P Reconstruction of air pollution history in western Japan using fly-ash particles in sediment cores: A Murakami, T Okudaira, S Yoshikawa

EGG01646P Modern laminated tufa at El Tempul aqueduct (Cadiz-Spain). Stable isotope record as potential hydrological archive for the last 140 years: J Vazquez, J Durán-Valsero, S Lojen

EGG01647P Geochemistry and petrography of boxcore sediments from a methane seep setting in the Strait of Sicily, central Mediterranean: M Cangemi, R Di Leonardo, A Bellanca, R Neri

EGG01648P The phosphogypsum dump – an example of natural and anthropogenic interaction: M Schiewe

EGG01649P Using the analytic hierarchy process for soils quality purposes: A Gaykalova, M Nekrasova

EGG01650P Hydrodynamic and physico-chemical characterization of a porous material based on recycled porous glass as a filtration/sorption media for constructed wetland: E Ranieri, P Calabrese, D Petruzelli, V Petruzelli, V Simeone

EGG01651P B Soils resources in the ecoclimatic area of Prespa-Albania: H Mankoli

EGG01652P Subterranean petroleum deposits in correlation to induce tornado formation: S Mori

EGG01653P Evaluation of surface water chemistry in a regional mountainous river basin by a chemometric method: A Reis, A Parker, A Alencacão
EGG01654P EG Technogeneous transformation of the coastal-marine zones as the main factor of the global environment destabilization: S Alekseev, E Vostokov

EGG01655P Electrical and GPR methods applied in the study of a lubricant oil waste disposal area: A Lago, V Elis, W Borges, G Penner

Monday 0800h–1900h
EUR-09 Geology of the Southern Permian Basin area
EUR09716P Carboniferous petroleum system of the Fore-Sudetic monocline (southwestern Poland): D Botor, B Papiernik, W Górecki, P Kosakowski, T Maækowski, B Reichel, G Machowski

EUR09717P Variations in temperature and geothermal gradients in the Dutch part of the Southern Permian Basin: H Verweij, D Van Leverink, T Tambach, M Nepveu, C Huisman

EUR09718P Conditions of occurrence of hydrocarbon deposits in the Zechstein Main Dolomite (Ca2) petroleum system, exemplified by the Grotów Peninsula area (Fore-Sudetic Monocline, SW Poland): P Bartosz, P Kosakowski, G Machowski, R Semyrka, K S'upczyñski, A Kowalski, M Capik

Monday 0800h–1900h
GEP-09 Linking petroleum systems and plays to sedimentary basin evolution Part 1

GEP09617P Cretaceous petroleum system of the khasib and tannuma reservoir oil, East Baghdad oil field, Iraq: T Al-Ameri, R Al-Obaydi, M Zine

GEP09618P Pernambuco basin: A promising exploration frontier: A Barbosa, M Lima Filho, V Neumann, G Fambriñi, F Heitor

GEP09619P Structural frame of the Paris basin (France) based on the reprocessing and interpretation of regional seismic lines: L Beccaletto, F Hanot, O Serrano, S Marc

GEP09620P The aquitaine basin: Seismic data valorization, structural mapping and petroleum potential: O Serrano, J Delmas, F Hanot, R Vially, L Beccaletto

GEP09621P Correlation of organic and inorganic parameters for thermal maturity reconstructions in the Apennine-Maghrebian fold-and-thrust belt (Italy): S Corrado, L Alèdèga

GEP09622P Tectonostratigraphic evolution of the Levantine Basin: The next petroleum giant?: L Marlow, C Kendall, J Svenson, N Watrus

GEP09623P Geological and structural studies of the Baltic Sedimentary Basin: Implications for the petroleum potential: J Lazauskiene, J Cyziene

GEP09624P Petroleum potential of the northern european part of Russia (based on basin modeling solution): K Sîtar

GEP09625P Geodynamic conditions of occurring wedge shape bodies of Volga-Ural oil and gas province: V Afbreve, R Garifullin, R Gaynetdinov, P Izotov

GEP09626P Evolution of Ukrainian part of outer Carpathians and petroleum systems formation: M Pavlyuk, Y Koltun

GEP09627P Oil window beginning and bitumen origin from the source rocks of the infrasaliferous series in the eastern part of the Precaspian basin (Kazakhstan): T Yensebayev, A Izart, M Cathelineau

GEP09628P Perspectives of the pre-Jurassic oil – gas bearing sediments in Turanian Platform: T Fayzullaev

GEP09629P Ural plate tectonics and evolution of the East-European continental margin: Y Nikitin, I Istomina, S Ostapenko

GEP09630P Characteristics and dynamic settings of the Central-east Asia multi-energy minerals metallogenic domain: C Liu, B Wu, H Zhao HongGe

GEP09631P Earth's crust structural features and forecast of the oil-and-gas bearing platform areas of Siberia on the basis of depth criteria: V Kuznetsov, A Salnikov, V Markov, V Titarenko

GEP09632P Conception and classification of thermal structure: X Yang, H Chao, C Liu

GEP09633P The genetic model and distribution of marine hydrocarbon source rocks in Tarim basin, NW China: X Cai, Y Wang

GEP09634P Slope break zone and lithologic oil pool exploration of Yanchang Formation,Ordos Basin: J Pang, W Li, Y Guo, Z Yuan

GEP09635P Research on sedimentary systems and hydrocarbons enrichment of the Jurassic of the Ordos basin: Z Yuan, W Li, Y Guo, J Pang

GEP09636P Sequence stratigraphy features and reservoir characteristics of YanChang formation in Longdong area of Ordos basin: Y Guo, W Li, J Pang, Z Yuan

GEP09637P Refined model of upper cretaceous lacustrine source rocks in Songliao Basin, China: F Wang, B Wang, T Jin

GEP09638P Geologic Characteristics of Gas Reservoir in West Sichuan Foreland Basin: K Yang

GEP09639P Petroleum assessment of the intracratonic Taoudeni basin, Mali: I Amadou

GEP09640P Structural evolution and reservoir-plays distribution are controlled by rotation-shear structures: An example of Fula Sub-Basin, Muglad Basin (Reference number is 7.): B He

GEP09641P Geological sampling in the deep-water front Bight Basin, offshore southern Australia: Targeted dredging in search of mid-Cretaceous source rocks: C Mitchell, J Jotterdell

GEP09642P Seismic stratigraphic the southwest offshore caribbean colombian: A Rey Porras

Monday 0800h–1900h
GHZ-03 Integrated studies of tsunamis and other geohazards in coastal regions

GHZ03611P Remote monitoring of landslide processes on the north-west coastal slopes of the Black sea with the use of artificial micro seismic waves: O Dragomyretska

GHZ03612P In search of the 479 BC Tsunami and Earthquake source (northern Greece): K Reichertar, I Papanikolaou, S Roessler, J Roger

GHZ03613P Application of the geoelectrical methods in the study of ancient tsunami deposits: V Radulescu, G Gânea

GHZ03614P The impact of tsunamis on the Island of Majorca induced by North Argelian seismic sources: J

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Álvarez-Gómez, M Olabarrieta, M González, L Otero, E Carreño, J Martínez-Solares

GHZ03615P Paleotsunami studies for identification of traces of historical tsunamis and their impact on Fethiye Bay (Rhodes Pass), SW Turkey: B Alpar, Y Altinok, E Meric, S Unlu, C Yaltirak, N Ozer, A Nazik, N Avsar

GHZ03616P Scenarios of tsunamis induced by earthquakes and by mass movements in the Gioia Basin, southern Tyrrhenian sea, Italy: S Tinti, F Gamberi, R Tonini, S Gallazzi, A Manucci, F Zaniboni, M Marani

Monday 0800h–1900h
GTR-01 General contributions to geological remote sensing

GTR01618P Airborne thermal infrared data to identify submarine groundwater discharge (SGD) systems in the mediterranean coast of Spain: C Antón-Pacheco, E de Miguel, J Gomez, J Gumiel, B Ballesteros, M Mejías, J García-Orellana, E García-Solsona

GTR01619P Morphotectonic study for the neotectonic framework at a part of the unstable shelf – north west Iraq, using remote sensing techniques: Z Al-Jawadi, H Al-Dagherstani

GTR01620P Multi-source remote sensing technology using in the service of coal resources exploration and coal industry information construction: G Kang, X Wang, D Zhang

GTR01621P Relationship between mud volcanoes and lineaments: A Gal, Z Ungar

GTR01622P Remote sensing morphometric measurements of cinder cones in Tolbachik volcanic field (Central Kamchatka): M Gilichinsky, D Melnikov, I Melekestsev, M Inbar, N Zaretzkaya

GTR01623P Tectonic lineaments age determination by using (FIL) well logs data at Ain Zallah – Butmah Area, NW Iraq: Z Al-Jawadi

GTR01624P The territorial information system: Contribution to the management of the sensitive spaces by the geographical information systems, example of the basin of the Gharb (Morocco): A Amrani, M El Wartiti, M Zahrouti, H Khmich, I Jaafar, J Casanova Roque, A Calle

Monday 0800h–1900h
HPP-04 From Rodinia to Nuna and beyond: Precambrian supercontinent reconstructions delving deeper in time

HPP04615P The malani supercontinent: N Kochhar

HPP04616P A billion years of Proterozoic history in a new geological map of eastern Labrador: C Gower

HPP04617P Detrital zircon ages from the Maud Belt (East Antarctica) and the Pinjarra Orogen (Western Australia): No evidence for a Mesoproterozoic Kalahari-Western Australia connection: A Ksienzyk, J Jacobs, J Kosler, K Sircombe

HPP04618P Dyke magmatism around the Palaeoproterozoic Cuddapah Basin in south India: paleomagnetism and Palaeoproterozoic supercontinental reconstructions: R Tallavajhalu, K N.R, B G.

HPP04619P Major metamorphic events in the western part of east European cratons: G Skridlaite, S Bogdanova, L Taran, B Baginski, J Wiszniewska, M Whitehouse

HPP04620P New paleomagnetic results from the Neoproterozoic Nantuo Formation in south China and their paleogeographic implications: S Zhang, D Evans, H Wu, G Jiang, J Dong, T Raub, H Li, Q Zhao

HPP04621P New U-Pb SIMS ages of monazites and zircon rims: in-situ and inherited metamorphic history of the Mesoproterozoic Northampton Complex (Western Australia): A Ksienzyk, J Jacobs, M Whitehouse

HPP04622P Palaeoproterozoic evolution of the northwestern Ukrainian Shield: S Claesson, E Bikbikova, S Bogdanova, L Shumlyanskyy, V Skobelev

HPP04623P Paleomagnetic studies on the NeoArchean-Palaeoproterozoic dykes in the Kaapvaal Craton: Preliminary results: N Lubnina, M Klausen, U Soderlund, R Ernst

Monday 0800h–1900h
MPN-03 Mineral replacement and mass transfer in hydrothermal systems: From the nanoscale to the megascale

MPN03717P Indicator role of high-aluminiferous secondary quartzites: L Mishin

MPN03718P The diagnostic attributes of the convergent rocks: I Kozyreva

MPN03719P Genesis of Munella zeolites, Northern Albania: E Beqiraj, J Touray, F Muller

MPN03720P The distribution of REEs in the undercoal formations of the Angren kaolin – browncoal deposit (East Uzbekistan): A Koldaev, N Bezdeliga

MPN03721P Hydrothermal alteration in Palaeoproterozoic metagranite, Forssmark, Sweden and its implications for the characterization of a site for the disposal of nuclear waste: J Petersson, B Sandström, M Stephens

MPN03722P Mechanisms of reaction between olivine and carbonated saline fluids: H King, A Putnis

MPN03723P Compositional variation in clinopyroxene across fluid-induced granulite to eclogite transition: A case study from bergen arcs, Norway: F Casarin, A Putnis, H Austrheim

MPN03724P Fluid infiltration in low-permeable rocks: Mechanism, heat transfer and healing of microcracks: L Engvik, B Stoeckhert, A Engvik
Tuesday 12 August – Early Morning

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<th>Session code</th>
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The following symposia begin in this session. Some symposia continue on the next day. Next day presentations may be found in the next day section.

Tuesday 0830h
AAA-06 Arctic petroleum provinces (iii): Petroleum geoscience of the North American and Greenland basins – Part 2
0830h AAA06705L Exploration opportunities in the Mesozoic succession of Sverdrup Basin, Canadian arctic Archipelago: A Embry
0900h AAA06706L New exploration opportunities in the Sverdrup Basin: K Dewing, M Obermajer, G Oakey, C Harrison, S Grasby
0915h AAA06707L Structural Mesozoic petroleum play in western Sverdrup Basin, Canadian Arctic Archipelago: An illustration of the challenges for circum-Arctic petroleum assessment: K Osadetz, Z Chen, A Embry, P Hannigant, H Gao
0930h AAA06708L A first look at the Lomonosov Ridge as a petroleum province: T Moore, J Pitman, A Grantz
1100h AAA06710L Giant untested basins of northern Baffin Bay region: C Harrison, T Brent, G Oakey, P Budkeiwitsch
1115h AAA06711L Resource evaluation of the Lincoln Sea: K Sorensen, D Gautier
1130h AAA06712L Petroleum geology of the onshore East Greenland basins – implications for the offshore areas: L Stemmerik, M Larsen, J Bojesen-Koefoed, F surlyk

Tuesday 0830h
STT-09 New concepts in global tectonics
0830h STT09701L New physical platform for Earth evolution studies: K Storetvedt
0900h STT09702L The structure and composition of the Pacific Mega-basin basement complex: B Vasyliev, D Choi
0915h STT09703L Mesozoic basins and deep-seated tectonic zones in the Western Pacific: D Choi, B Vasyliev
0930h STT09704L Suruga Bay: Origin of one of the world's deepest bays: M Hanada, M Hoshino
0945h STT09705L The main stages of global tectonics according to the fluids-rotation conception: N Pavlenkova
1030h STT09706L Juvenile petroleum systems work via global tectonic processes releasing deep fluid inclusions: A Kitchka
1100h STT09707L The impact at the Paleozoic-Mesozoic boundary: N Parubets
1115h STT09708L A source of confusion in plate motion direction: M Raeisi
1130h STT09709L Phanerozoic Earth history in the framework of global wrench tectonics: K Storetvedt
1145h STT09710L Abiotic petroleum in a degassing Earth: K Storetvedt
1400h STT09711L On the elliptic arrangement of faults accompanied by deep earthquakes in the Japanese islands and neighborhoods: Y Suzuki, N The Research Group of Geotecto
1430h STT09712L Element, mineral and rock formation in the context of Excess Mass Stress Tectonics – EMST: S Tassos
1445h STT09713L Earthquake and tsunami generation in the context of Excess Mass Stress Tectonics – EMST: S Tassos
1500h STT09714L Tectonic spiral structures of the Tethyan vortex street: GRACE geoid interpretations and African lightning telecommunications: B Leybourne, C Smoot, G Gregori, G Paparo, I Bhat
1600h STT09715L The earthquakes and the linked with them tsunami waves: P Binev
1630h STT09716L The lateral tensile fracturing model of fault: Z Qiu
1645h STT09717L The planetary geodynamic system of through ore-forming structures “GEOTRANS”: L Galets'kiy
1700h STT09718L The reason for a decrease in the Earth’s rotation speed in geological time. The total continental plate torque friction force moment: V Zemtsov
STT09719P Continental lower-crustal laminar flow hypothesis: D Li
STT09720P About the birth of med by mantle flow and thrust: J Zhang
STT09721P New theoretical conception concerning the tectonic processes of the Earth: H Guliyev
STT09722P Impulse magnetic field in planetary formation: I Tunyi, P Guba, P Balaz, M Timko, J Kovac, L Roth
STT09723P Seismicity of deep earthquakes in the Japanese islands and surrounding areas: Y Akamatsu, n The Research Group of Geotecto
STT09724P Horizontal plates movements could be explained by redistribution of geological masses to have diagonal values of inertia tensor: S Sokolov

Tuesday 0830h
AAN-02 Cenozoic Antarctic glacial history
0830h AAN02701L Antarctic Cretaceous ice: Precursor to Cenozoic glaciation?: J Francis, V Thorn, A Haywood, J Riding, S Hunter, A Crane, R Raiswell, J Marshall, P Frost, D Pirrie
0900h AAN02703L Cenozoic vegetation history and climate, Ross Sea Region, Antarctica – Palynological results: J Raine, A Ashworth, R Askin, D Mildenhall, J Prebble

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.
0915h AAN02704L Continental tillites document Late Oligocene change from chemical to physical weathering under a wet-based east Antarctic ice sheet: C Baroni, F Fasano, G Giorgetti, M Salvatore

0930h AAN02705L The geological record of Neogene ice sheet change in the Lambert-Amery ice shelf system and climate processes controlling ice behaviour: P O’Brien, I Goodwin, A Cooper, C Forsberg

0945h AAN02706L The terrestrial sedimentary record of pre-Quaternary glaciation in Antarctica: M Hambrey

1030h AAN02707L Evidence for a dynamic ice sheet in Antarctica and deep-sea warming on the Tasmanian Slope during the late early Miocene (19-16 Ma): Stable isotope and Mg/Ca records from ODP Leg 189 Site 1168: S Pekar, S Syed

1045h AAN02708L Late Miocene-Pliocene ice sheet dynamic of the west antarctic Peninsula region: A sedimentary and oceanographic view: D Hepp, T Moerz

1100h AAN02709L Neogene paleoenvironmental and geological history of the Transantarctic Mountain coastline and Victoria Land Basin: Initial results of ANDRILL’s Southern McMurdo Sound Project AND-2A drillcore: D Harwood, F Florindo, R Levy, S SMS

1130h AAN02710L Pectinids from drill cores and outcrops document non-truly polar conditions in the Neogene of the Ross Sea region, Antarctica: M Taviani, A Ceregato, D Harwood, F Florindo

1145h AAN02711L The record of paleoenvironmental change at the ANDRILL McMurdo Ice Shelf site, Antarctica, from downhole measurements: T Williams, R Morin, C Jackolski, R Jarrard, S Henrys, F Niessen, D Magens, R Powell

1400h AAN02712L Neogene marine diatom assemblage turnover and Antarctic environmental variability: R Cody, J Crampton, R Levy, D Harwood

1415h AAN02713L Glacial dynamics change during mid-late Pleistocene inferred from marine sediments on the Wilkes Land continental margin (East Antarctica): A Caburlotto, R Lucchi, R Tolotti, P Macrì

1430h AAN02714L New insights into the record of Late Pleistocene glacial/interglacial cycles by deep-sea sediments off the Adelie Land margin (East Antarctica): M Presti, L Barbara, D Denis, X Crosta, V Bout, C Kissel, L De Santis

1445h AAN02715L Exploring the east Antarctic icehouse with recent aerogeophysical data from the Wilkes Subglacial Basin region: F Ferraccioli, H Corr, D Hill, T Jordan, E Armadillo, A Haywood, B Emanuele, R Hindmarsh

AAN02716P Glacial-interglacial Late-Quaternary variations in the Pacific sector of the Southern Ocean (Antarctica): L Capotondi, F Giglio, S Giuliani, M Frignani, M Ravaio, L Langone, P Maffioli

AAN02717P Sediment accumulation rates beneath the Larsen ice shelf, Antarctica; a unique perspective on lithofacies and particulate flux beneath a large ice shelf: A DeMoer, E Domack, K Roe, R Gilbert, A Leventer, L Folk

AAN02718P Sediment physical properties and clay minerals of the Prydz Bay rise in response to the east Antarctic ice sheet behaviour since Middle Miocene: H Valp, K Strand, A Huusko, J Junttila, T Väihäkuopus

AAN02719P A plio-pleistocene diatom record of Antarctic continental shelf environmental change, ANDRILL MIS: C Sjønneskog, D Winter, R Scherer, P Maffioli, C Riesselman

AAN02720P Updated plio-pleistocene diatom biostratigraphy for the ANDRILL McMurdo Ice Shelf AND-1B drillhole: D Winter, C Sjønneskog, R Scherer, C Riesselman, P Maffioli, M Konfirst

AAN02721P Clast distribution and basement clast petrology in andrill (and-2a) core, southern mcmurdo sound, Antarctica: F Florindo, S Sandroni, F Talarico

AAN02722P Antarctic drilling targets on the Coulman High: Potential ANDRILL sites in the Ross Sea: B Luyendyk, D Wilson, R Decesari, C Sorlien, L Bartek, D Harwood, S Fischbein, R Levy, F Rack, S Andrill

AAN02723P Detecting terrestrial organic input in the ANDRILL-SMS Neogene record: A comparison between a novel and a traditional approach: S Corraro, F Sangiorgi, V Cantarelli, S Schouten, F Florindo, D Harwood, V Willmott

Tuesday 0830h

AFR-02 Cenozoic volcanism and evolution of the African lithosphere

0830h AFR02070L The Cameroon Line magmatism (Central Africa): A viewpoint: E Njonfong, A Nono, P Kamgang, V Ngako, F Tchoua Mbatcam

0845h AFR02070L East African rifting, volcanism and the African Superplume: An analogue for the Martian Valles Marineris and Tharsis Province: M Modisi, K Laletsang

0900h AFR02070L Younger volcanic fields of Yemen with focus on Jabal At-Tair active volcano in the Red Sea: M Mattash

0915h AFR02070L Harrat hutaymah volcanic field of Saudi Arabia and its cognate plutonic nodules: Z Ahmed

0930h AFR02070L New light on volcanic sources in Central and North Madagascar: K Goodenough, B Tucker, B Thomas, W Bauer, J Conrad, B De Waele, R Key, R Lowell, M Rabarimanana, J Rafahatelo, T Randriamanjara

0945h AFR02070L The Late Cenozoic volcanic complex of Massif d’Ambre, northern Madagascar: L Melluso, V Morra, C Cucciniello, L Franciosi, C Grifa, M Lustrino, V Modeste, C Petrone, H Rizicky, I Rocco

1030h AFR02070L Quaternary volcanic activity in the main Ethiopian Rift (MER): F Kersten, R Gloaguen, J Pfaender

1045h AFR02070L Petrology of mantle xenoliths from the Northern Ethiopian plateau: Clues of plume related metasomatism?: L Beccaluva, G Bianchini, R Ellum, C Natali, F Siena, F Stuart

1100h AFR02070L Geochemical evidence for subcontinental lithospheric mantle in oceanic domain (Sal, Cape Verde Archipelago): C Bonadiman, M Colorti, L Beccaluva, L Griffin, S O’Reilly, N Pearson

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.
1115h AFR02710L Continental flood basalt s and mantle plumes: The case study of the Northern Ethiopian plateau: L Beccaluva, G Bianchini, C Natali, F Siena
AFR02711P Geochemical study of fluids and volcanic rocks from the Main Ethiopian Rift: Insights on the origin of fluoride-rich groundwater: T Rango, G Bianchini, L Beccaluva, T Ayenew
AFR02713P Petrology and geochemistry of Cenozoic silica undersaturated lavas of the Tazrouk district (Azrou N’Fad’Egere – Alexsod), Hoggar, Algeria: A Azzouni-Sekkal, R Ben El Khaznadji, J Lécgeois, B Bonin, M Megartsi
AFR02714P Preliminary thermoelastic modeling of the southeastern DRC Congo and Zambia lithospheric uplift: S Sehagenzi Mwene Ntabwoba, K Mickus
AFR02715P Mineralogy of the Cenozoic Manzazz volcanic province, (Latea metacraton, Hoggar, Algeria): A BENHALLOU, A Azzouni-Sekkal, J Lécgeois, B Bonin
AFR02717P Trace element and isotopic variations among Marsili serpentinite back-arc magmas: Constraints for African mantle inflow beneath the Southern Tyrrhenian basin.: T Trua, M Marani, G Serri, R Clocchiatti, L Ottolini, F Gamberi
AFR02718P Mantle xenoliths from the Hylean area – clues for the evolution of the north African lithosphere: G Bianchini, G Sapienza, M Yoshikawa

Tuesday 0800h
CGC-05 Fennoscandian uplift and global sea level changes
0800h CGC05701L Large-scale development of the mid-Norwegian shelf during the last 3 million years with implications for corresponding land denudation and uplift: D Ottesen, L Rise, J Dowdeswell
0830h CGC05702L The Fennoscandian Uplift: Introduction and overview: N Mörner
0900h CGC05704L The Fennoscandian Uplift – the interplay of various processes: W Fjeldskaar, A Amantov
0915h CGC05705L Holocene relative sea level changes in the Lovisa area, southern coast of Finland: A Miettinen
0930h CGC05706L Sea-level fluctuations imply that the younger dras ice-sheet expansion in western norway commenced during the Allerød: Ø Lohne, S Bondevik, J Mangerud, J Svendsen
1030h CGC05703L An adjustment of glacio-isostatic rebound of the peripheral areas of the last Scandinavian glaciation: S Uścinowicz
1100h CGC05707L Early Holocene sea-level rise and sedimentary architecture of the Rhine mouth (Rotterdam area, Netherlands): K Cohen, M Hjima, E Stouthamer, A Van der Spek, S Van Heteren
1115h CGC05708L Post-glacial eustatic changes leading to present-day hydro-isostatic subsidence of the ocean floor: W Fjeldskaar, A Amantov
1400h CGC05709L Sea-level record in a N-S transect, from Western Mediterranean to Eastern Atlantic Margin in last 2 Myr: C Zazo, J Goy, T Bardaji, C Dabrio, C Hillaire-Marcel, A González-Delgado, J Cisiv, A Cabero, J Lario, P Silva, V Soler, P Gillot
1445h CGC05710L Paraná Pleistocene barrier, Southern Brazil: J Branco, R Angulo, M Souza, R Scheel-Ybert, T Goncalves, S Disaró, D Pupo
1500h CGC05711L Sea Level Changes in the far-field and in the near-field: N Mörner
1515h CGC05712L Secular variations of the mean sea level in northern and southern hemispheres of the Earth: J Ferrandiz, D García, Y Barkin
1600h CGC05713L Evidence of Holocene near-shore sea-level similarity in Australasia: What does this mean for the predicted sea-level rise in the future?: R Baker
1615h CGC05714L Long-term sea level fluctuations driven by ocean basin dynamics: D Muller, M Sdrolias, C Gaina, B Steinberger, C Heine
1630h CGC05715L Very low term (250 Myr) quantification of the eustasy during Mesozoic – Cenozoic time based on coastal onlap measurement at the tetths and world-scale: C Robin, F Guillocheau, B Vrielynck
CGC05716L Contemporary problems of geomorphology and paleogeography of the northern and southern seas: G Matishov
CGC05717P Caspian rapid sea level changing reconstructing by use bioindicator at the holocene epoch: H Khoshravan
CGC05718P Numerical reconstruction of palaeotidal elevations since the last glacial maximum: S O’Callaghan, S Bradley, R Hardy, G Mline, I Shennan
CGC05719P The Holocene evolution of the tropical island of Inhaca, Mozambique: M Achimo, B Stabell, S Halldorsen, J Muabe, F Momade
CGC05720P Reconstruction of sea/lake-level changes in an active strike-slip basin (Gulf of Cariaco, NE Venezuela): M Van Dale, F Audemar, C Beck, M De Batist, A van Welden, J Moermant, S Gualiqueri II
CGC05721P Geoinformational metalloganetic model of the East Europe – Barents sea megaprovince: G Fusev, V Kilipko, A Golovin, N Mezhelovskiy

Tuesday 0830h
CGG-02 Subglacial environments: Processes, sediments, landforms, modelling and experiments
0830h CGG02701L Formation of sub-marginal end moraines and its implications of subglacial ice-flow mechanism during the 1963-64 surge of Brúarjökull, Iceland: Í Benediktsson, O Ingolfsson, A Schomaker, K Kjar
0845h CGG02702L Glacial earthquakes in Mýrdalsjökull, south Iceland: R Roberts, B Lund, R Bodvarsson, V Pohjola, S Jakobsdottir, J Kristin

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.
0900h CGG02703L What is “ribbed moraine”?: P Möller, M Lindén
0915h CGG02704L Groundwater flow under a land-based palaeo-ice stream of the Scandinavian ice sheet and its geomorphological implications: P Hermanowski, J Piotrowski, A Piotrowski
0930h CGG02705L How thick are drumlins; An analysis of drumlin relief for a large sample: M Spagnolo, C Clark, A Hughes, C Jordan
0945h CGG02706L Enigmatic subglacial bedforms (“glacial curvilineations”) of the Drobzryn moraine plateau, Poland: genesis and glaciodynamic implications: J Lesemann, J Piotrowski, W Wysota
1030h CGG02707L Subglacial drainage and patterns of surge propagation in Svalbard: D Benn, J Gullie, L Kristensen
1100h CGG02708L Patterns of time-dependent erosion and deposition during a mini-surge and their relation to basal hydraulic: G Boulton
1115h CGG02709L Late Ordovician subglacial record in the eastern Murzuk basin, Libya: J Moreau, J Ghienne, J Rubino
1130h CGG02710L Modelling subglacial hydraulic in the European lowland: Where did all this water go?: J Piotrowski, A Wspanialy, A Ber
1145h CGG02711L New computational models of coupled subglacial processes: D Egholm, J Piotrowski, C Clark, B Coles, S Nielsen, V Pedersen
1400h CGG02712L Testing the bed-deformation hypothesis: Applying experimental magnetic fabric studies to the geologic record: N Iverson, J Thomason, T Hooyer
1430h CGG02713L Linked landform build-up in a subglacial deforming bed system – Niemisel-type ribbed moraine and de geer moraine: P Möller, M Lindén
1445h CGG02714L SW-Scandinavian ice streams: Triggered by warming and driven by shallow basins?: M Houmark-Nielsen
1500h CGG02715L Modelling the evolution of erosion, transport and deposition by the last European ice sheet: G Boulton
1515h CGG02716L Investigating the potential of palaeo-climatic record in buried ice from the Dry Valleys, Antarctica: D Samyn, R Lorrain, J Tison, D Marchant
1600h CGG02717L Glacitectonites, a marker in the glaciodynamic stratigraphy: S Pedersen
1615h CGG02718L Push-moraine origin for the younger dryas middle swedish end moraines: M Johnson, Y Ståhl, L Björklund
1630h CGG02719L Distribution of gas reservoirs and gas seeps controlled by glacitectonic deformation of marine deposits: T Laier
CGG02720P A comparison of onshore and offshore buried tunnel valleys along the Danish North Sea coastline: T Andersen, F Jorgensen, S Christensen
CGG02721P A hybrid soft-sediment deformation model for a subglacial shear zone developed within tectonised tills and glaciolacustrine deposits – an example from the middle Pleistocene of eastern England: E Phillips, J Lee
CGG02722P Glacial landsystems of the Saginaw lobe, Michigan, USA: A Kelew, J Esch, A Kozlowski
CGG02723P Glaciogenic reservoir analogue studies project: J Moreau, A Janssen, P van der Vegt, P Gibbard, M Huuse, A Moscariello
CGG02724P Instantaneous end moraine and sediment wedge formation during the 1890 glacier surge of Bróarjökull, Iceland: I Benedikttson, P Möller, O Ingolfsson, J van der Meer, K Kjær, J Krüger
CGG02725P Quantitative ratio of illite polytypes in the contact zone of till and basin sediment: I Lüse, A Mishnev, A Stunda, V Seglins
CGG02726P Radar stratigraphy of the glaciectonically deformed deposits in Isoiniemi area, Haukipudas, Finland: A Pasanen
CGG02727P Subglacial bed conditions beneath the Late Weichselian Baltic Ice Stream in Estonia: M Rattas

Tuesday 0815h
COC-03 Risk and vulnerability assessment related to geological storage of CO2 – Part 2
0830h COC03713L Geochemical vulnerability of groundwater resources in response to CO2 leakage from deep geological storage: J Birkholzer, J Apps, L Zheng, Y Zhang, T Xu
0845h COC03714L Can CO2 be safely sequestered by carbonization of basalt?: T Flaathen, E Oekkers, S Gislason
0915h COC03716L Study of natural gas leakages for the risk assessment of CO2 geological storage: N Voltattorni, D Cinti, L Pizzino, F Quattrocchi, A Sciarra
0945h COC03717L Monitoring CO2 injection from space: Using Interferometric Synthetic Aperture Radar to image subsurface volume and pressure change: A Ferretti, F Novali, J Rutzvist, D Vasco

Tuesday 0830h
EGG-03 Geological aspects of radon risk mapping, 9th symposium (GARRM 9) – Part 1
0830h EGG03701L A European atlas of natural radiation including harmonized radon maps of the European Union: M De Cort, G Dubois, P Bossew, T Tollesen
0900h EGG03702L The first Radon Risk Maps: G Åkerblom
0915h EGG03703L Cross-border radon index map 1: 100 000 Lausitz – Karabonosze – Jizera region (northern part of the Bohemian massif): I Barnett, P Pachlerova, W Preusse, B Stec
0930h EGG03704L Identifying radon prone areas in different map scales by a top-down-strategy: R Klingel, A Siehl, J Kemski
0945h EGG03705L Comparison of detailed in situ assessment of radon risk and classification based on radon risk maps: M Neznan, M Neznan, I Barnet
1030h EGG03706L Mapping the geologic radon potential of the United States: Lessons learned: L Gundersen
1045h EGG03707L The Norwegian indoor radon mapping strategy: I Finne, T Strand, A Rudjord
1100h EGG03708L Representativeness of national/international indoor radon measurement data base: T Valmari, I Mäkeläinen, H Arvela
1115h EGG03709L BETSI the national survey: H Hjorth, M Bengtsson
1130h EGG03710L Improving the Austrian radon potential map: H Friedmann, J Groeller
1145h EGG03711L Radon mapping using indoor, soilgas and geological data: B Dehendschutter, A Poffijn, G Ciotoli, J Klerkx
1400h EGG03712L Indoor radon risk mapping – Portuguese study: H Fonseca, M Reis
1415h EGG03713L Radon database in Switzerland: M Gruson
1430h EGG03714L Radiation load and risk assessment from indoor radon concentration in Slovenia: M Vicanova, I Pinter, D Nikodemova
1445h EGG03715L Radon in soil gas in Saxony – prognosticating radon prone areas: W Preusse
1500h EGG03716L Testing the performance of a recent multidisciplinary radon hazard evaluation in the municipality of Gran, eastern Norway: M Smethurst, A Sundal, T Strand, B Bingen
1600h EGG03718L Indoor radon risk map for the Walloon region (Belgium): G Cinelli, F Tondeur, B Dehendschutter
1615h EGG03719L Distribution of indoor Radon concentration: Geological aspects: G Concettina, F Cucchi, M Garavaglia, B Nadalut

0915h EIE07703L Integrated planning of hydrogeophysical data on a national scale: From processing, interpretation and storage to visualisation: I Moller, F Jørgensen, V Søndergaard, E Aukén
0930h EIE07704L Advances in 3D and 4D self-potential tomography and applications to ground water flow and contaminant plumes: A Revil
1030h EIE07705L Improved subsurface hydraulic characterization using spectral induced polarization: Current challenges to petrophysics and imaging: A Kemna, A Flores-Orozco, J Vanderborgh
1100h EIE07706L Surface nuclear magnetic resonance tomography: M Hertrich
1130h EIE07707L Advances in geoelectric imaging technologies for the measurement and monitoring of complex earth systems and processes: R Ogilvy, P Meldrum, O Kuras, P Wilkinson, J Chambers
1400h EIE07708L Detailed ground magnetic and resistivity measurements for a potential deep geologic repository for spent nuclear fuel in Oskarshamn: L Stenberg
1415h EIE07709L Opportunities and limitation of minimal invasive and tomographic methods for near surface investigation: P Dietrich
1445h EIE07710L Surface wave inversion in complex structures: L Socco
1515h EIE07711L Structural joint inversion of 3-D seismic tomography and DC resistivity data from the Åknes rockslide in Western Norway: B Heincke, T Günther, J Running, E Dalseg, G Vervik Garner
1600h EIE07712L Reflection seismic imaging of the end-glacial Pärveie fault system, northern Sweden: C Juhlin, B Lund, M Dehghanejad, A Malehmır
1615h EIE07713L Investigating the structure of the oster fault zone, south island, New Zealand, using high-resolution seismic reflection: F Campbell, A Kaiser, W Stratford, H Horstmeyer, M Finnemore, L Marescot, D Nobes, A Green
1630h EIE07714L P- and SV-velocity structure of the South Portuguese Zone fold-and-thrust belt, SW Iberia, from traveltomeography: C Schmelzbach, C Juhlin, C Zelt
1645h EIE07715L Shallow imaging of the northern Alpine Fault zone from high resolution 3D seismic reflection data: A Kaiser, F Campbell, W Stratford, H Horstmeyer, R Langridge, M Finnemore, J Ernst, D Nobes, A Green
1700h EIE07716L Seismic Sequence Stratigraphy from a Decimetre Resolution 3D Seismic Volume acquired in Lake Windermere, UK: M Vardy, L Pinson, J Bull, J Dix, T Henstock
1715h EIE07717L Characterizing active faults using 3-D GPR data: A McClymont, A Green, P Villamor, H Horstmeyer, D Nobes

EIE07718P Analysis of 2D and 3D electrical resistivity models for the study of a polluted site investigated by OhmMapper: T Colonna, M Bottacchi, A Gigliuto, F Mantovani, S Mariani, D Tangari, A Tognoni
EIE07719P Seismic and GPR imaging of the Springfield fault system, canterbury plains, New Zealand: C Dorn, F Campbell, F Kaiser, H Horstmeyer, A Green, S Carpenter, M Finnemore, D Nobes, J Campbell

EIE07720P High resolution geophysical mapping of floodplain stratigraphy, river flush zones, salt stores, and water tables by integrating data from ground-penetrating radar and a new sled-mounted towed NanoTEM system: K Lawrie, J Clarke, M Hatch, P Mill

EIE07721P Tracing sedimentological evolution of Dehradun, intermontane valley, NW Himalaya using multichannel analysis of surface waves technique: A Mahajan, B Arora

EIE07722P Ground-penetrating radar investigations of coastal sedimentary deposits in northern Denmark – Implications for estimation of sea-level fluctuations over the last 7000 years: L Nielsen, L Clemmensen, N Noe-Nygaaard, M Peyrup, A Nielsen, L Nielsen, P Johannesssen

EIE07723P Tailings dams safety assessment using geoelectrical investigations: A Petrescu, I Oancea, O Mihai

EIE07724P Fluid distribution within the Nyegga area, northern flank of the Storegga slide, inferred from P-wave velocity anomalies: A Plaza Faverola, S Bunz, J Mienert

EIE07725P Geoelectrical methods applied for the identification of landslide surfaces in the old dumps: V Radulescu, M Melinte

EIE07726P Processing of 2D pole-dipole electrical resistivity tomography: A Samir

Tuesday 0830h
EME-06 Geoscience in ocean management

0830h EME06701L Maps of potential marine benthic habitats as a tool for ocean management: G Greene, T O’Connell, K Picard

0900h EME06702L Geoscience for ocean management: An overview and Australian perspective: P Harris

0930h EME06703L Geoscience in ocean management, the Irish experience: K Verbruggen, X Monteys, A Donovan, S Cullen, F Thomas

1030h EME06704L Integrated mapping of the seafloor and ecosystems in the Arctic – the MAREANO programme: T Thorsnes, L Buhl-Mortensen, T Skyseth

1100h EME06705L Sediment dynamics and distribution on the Norwegian continental shelf between the Lofoten Islands and the southern Barents Sea: V Bellec, M Dolan, R Boe, L Rise, D Ottesen, T Thorsnes, L Buhl-Mortensen, P Buhl-Mortensen

1115h EME06706L Pollution levels in the southern barents sea sediments: Results from the ongoing marenco programme and the need for new research: H Jensen, J Knies, T Finne, J Klungsoyr, T Thorsnes, S Boatsov

1130h EME06707L The use of marine base maps in the management of marine areas: O Longva, L Plassen, T Thorsnes, T Rasmussen, B Arvesen

1400h EME06708L Spatial modelling and multivariate prediction of surficial geology and nature types: M Dolan, V Bellec, P Buhl-Mortensen, T Thorsnes, L Buhl-Mortensen, R Boe

1430h EME06709L Marine landscapes in the Archipelago sea, the baltic sea – biological relevance and implications for management uses: A Reijonen, A Nöjd, A Kotilainen, H Rousi

1445h EME06710L Implementing the marine landscape tool to marine management of the Baltic sea: J Leth, Z Alhamdani, A Reijonen, A Kotilainen, J Reker

1500h EME06711L Kelp mapping and seafloor classification using acoustic means: A geo-bio approach at the rocky coast off Helgoland (SE north sea): H Hass, I Bartsch

1600h EME06712L The role of geologists in improving the management of Europe’s seas: A Stevenson

1630h Plenary discussion: Geoscience in Ocean management


EME06715P Sedimentary processes in the inner continental shelf of the Pântano do Sul bight, Brazil: Evidences of coastal erosion: J Guimarães de Souza, I Corrêa, N Horn

EME06716P Benthic foraminiferal from Pichavaram mangrove, South Coast of India: A tool in wetland studies: J Nadimiker

Tuesday 0830h
EUR-09 Geology of the Southern Permian Basin area – Part 2

0830h EUR09705L Carbonate platforms in the central part of the northwest European Carboniferous basin, new results from seismic interpretation: H Kombrink, H van Lochem, K van der Zwan

0845h EUR09706L Sub-seismic deformation prediction within Rotliegend strata of the German Southern Permian Basin: D Tanner, C Krawczyk, T Lohr, O Oncken

0900h EUR09707L Basin centre – marginal evaporate facies relations in the late Permian Zechezstein basin: T Peryt

0915h EUR09708L Triassic stratigraphy and facies of the Southern Permian Basin area: G Bachmann, A Becker, G Beutler, M Geluk, H Hagdorn, M Hounslov, L Nielsen, E Nitsch, H Rühling, T Simon, A Szulc, G Warrington

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.
0930h EUR09709L The Jurassic of the Southern Permian Basin Area, facies, paleogeography and hydrocarbon potential: G Lott, A Feldman-Olszewska, B Webbers, R Verreusseille, M Dusar, J Andsberg
0945h EUR09710L Correlating the Dutch and Danish upper Jurassic Central Graben successions: The greensand versus hot shale enigma: R Verreusseille, B Webbers, J Andsberg
1030h EUR09711L Cenozoic palaeogeography of the Southern Permian Basin area: R Knox, A Kothe, E Rasmussen, N Vandenberge, I De Lueg, P Balson, M Hiss, C King, G Standke, J Kasinski, A Bosch
1045h EUR09712L Early hydrocarbon exploration in the southern permian basin ~ 1850 to 1970 atlas area 1850 to 1970: K Glennie
1145h EUR09815L Pore pressures and fluid flow in the Dutch part of the Southern Permian Basin: H Verweij, E Simmelink

Tuesday 0830h
GCC-01 Contribution of geochemistry to the study of the Planet: Historical perspectives
0830h GCC01801L The evolution of the atmosphere and sea water: H Holland
0900h GCC01802L Geochemistry and secular geochemical evolution of the Earth.s mantle & lower crust: B Kamber
0930h GCC01803L The geochemistry of the Earth.s oceanic crust: K Haase
1030h GCC01804L Geochemistry and secular geochemical evolution of the continental crust: C Hawkesworth, T Kemp, A Pietranik, C Storey
1100h GCC01805L Global geochemical cycles and geochemical evolution of earth surface environment: A Lerman
1130h GCC01806L The geochemistry of silicate rock weathering: S Gislasen, E Oelkers
1400h GCC01807L Global geochemistry of river systems: M Meybeck
1430h GCC01808L Geochemistry and secular evolution of ground water: T Paces
1500h GCC01809L The geochemical distinction between marine and terrestrial evaporites: A Chivas

Tuesday 0815h
GDp-04 Palaeozoic-Mesozoic earth geography: Palaeomagnetic, faunal and facies constraints
0815h GDP04701L Paleoenviroment and paleolithofacies constrains on the Mesozoic paleogeographic maps: J Golonka
0900h GDP04703L Dynamic Plate boundaries: A method of reconstructing the past: C Hochard, G Stampfli
0915h GDP04704L High resolution global plate tectonics scenarios for the Paleozoic and Mesozoic: C Hochard, G Stampfli
1030h GDP04706L Earth geography in the Ordovician and Silurian: L Cocks, T Torsvik
1100h GDP04705L Late Ordovician conodonts from the Malaguide Complex, Betic Cordillera: A Martin-Algarra, R Rodriguez-Cañero, G Sarmiento, P Navas-Parejo
1115h GDP04707L Charting the Iapetus Ocean: Continents, islands and evolving life in an early Palaeozoic seaway: D Harper
1145h GDP04708L Trace fossils in shallow-marine deposits of the Lower Devonian Gamka Formation (Bókkeveld Group), southern South Africa: U Zimmermann, G Mängano, I Buatios, N Beukes
1200h GDP04709L Reefs and geodynamics: N Sobolev, N Zadorozhnaya, D Leontiev
1245h GDP04711P Visean calcareous algae from Zanus and Abnak sections of Mobarak formation, central Alborz, Iran: H Mosaddegh
1300h GDP04712P Stratigraphy of the permo-carboniferous succession in Saudi Arabia: The Unayzah formation re-defined: A Laboun

Tuesday 0800h
GEP-09 Linking petroleum systems and plays to sedimentary basin evolution – Part 2
0800h GEP09710L New Zealand’s deep water frontier: C Uruski
0830h GEP09711L Hydrocarbon discoveries in the fractured granitic and metamorphic basement rocks in Yemen and worldwide: A Nani, K Albanna
0845h GEP09712L The tectono – stratigraphic sequence and reservoir formation cycle in Tarim basin, NW China: Y Wang, Z Jin
0900h GEP09713L The volcanic oil and gas reservoirs in eastern basins of China: C Jing, W Dan, D Qiao, D Zhang
0915h GEP09714L Late Proterozoic basins of Siberian platform: S Frolov, G Akhmanov, E Karnyushina, N Korobova, N Fadeeva, E Kozlova, O Krylov
0930h GEP09715L Hydrocarbon potential in the Baltic Sedimentary Basin: I Lazauskiene, O Zdanaviciute
0945h GEP09716L Sequence stratigraphic classification of onshore Cretaceous sediments, Trichirappalli area,
Cavery basin, southern India: N Raghavendramurthy, N Adulla

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<td><strong>Tuesday 0815h</strong></td>
<td><strong>GET-01 General contributions to geothermal energy</strong></td>
<td>0815h GET01701L Characteristics, development and utilization of geothermal resources: J Lund</td>
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<td>0830h</td>
<td>GET01702L The role of geothermal energy in America’s climate change debate: W Jonathan</td>
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<td>0845h</td>
<td>GET01703L Geothermal energy development in the Philippines: Country update: L Bayrante, E Sevilla, R Sta Maria, R Taganas</td>
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<td>0900h</td>
<td>GET01704L The Development of Geothermal Energy Production in Iceland: A Mortensen, O Flovenz</td>
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<td>0915h</td>
<td>GET01705L Status of direct use of geothermal energy in Norway: K Midttomme, R Ramstad, J Stene, H Skarphagen, B Borgenes</td>
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<td>0930h</td>
<td>GET01706L Enhanced geothermal systems – energy demand, market potential and research needs: T Schulte, E Huenges, S Thorhallsson</td>
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<td>0945h</td>
<td>GET01707L A European coordination action as a major step forward to move enhanced geothermal systems ahead: P Ledru</td>
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<td>1030h</td>
<td>GET01708L Using decision support models to analyse the performance of EGS systems: J Van Wees, D Bonte, A Center</td>
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<td>1045h</td>
<td>GET01709L Exploring CO2 geological storage and geothermal productivity benefits from EGS application in the Paris Basin saline aquifer: A numerical approach: P Audigane, M Azroual, F Gherardi</td>
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<td>1100h</td>
<td>GET01710L The Iceland Deep Drilling Project (IDDP): An investigation of the supercritical geothermal regime: W Elders, G Fridleifsson</td>
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<td>1115h</td>
<td>GET01711L The first iceland deep drilling project well to be drilled this year in Krafla, NE-Iceland: G Fridleifsson, W Elders</td>
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<td>GET01712L IDDP fluids and their handling: H Armannsson, M Reed</td>
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<td>GET01713P Geothermal: A sustainable energy outlook for India: S Sharma</td>
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<td>GET01716P The interference of two wells at the Geoje hot spring area: C Lee, B Shim</td>
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<td>GET01717P United Nations University Geothermal Training Programme for 30 years: I Fridleifsson, D Holm</td>
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<td>GET01718P Drilling plans of the Iceland Deep Drilling Project (IDDP): S Thorhallsson, B Palsson, K Ingason</td>
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<td>GET01719P Conventional and unconventional sources of geothermal energy in New Zealand: A Reyes</td>
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<td>GET01720P Geothermal occurrences in Sardinia – preliminary report: V Paolo, A Marcelllo, S Pretti</td>
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<td>GET01722P The geo-scientific role in the harnessing of high temperature geothermal fields in Iceland: A Mortensen, O Flovenz</td>
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<td>GET01723P Prospects and limitations of a distributed temperature sensing system for the deployment in hot geothermal wells: T Reinsch, J Henninges, C Cunow, J Schroetter</td>
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<td>GET01724 Applied chemical geothermal for Tunisian hot springs: B Chulii, M Bedir</td>
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**Tuesday 0845h**

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<td><strong>GHZ-03 Integrated studies of tsunamis and other geohazards in coastal regions – Part 2</strong></td>
<td>0845h GHZ03707L Tsunami versus storm deposits along the Romanian Black Sea coast: G Oaie, A Stanica</td>
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<td>0900h GHZ03708L Development of the Nidelv Submarine Canyon (Trondheim): Implication for slope stability: J LHeureux, L Hansen, O Longva</td>
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<td>0915h GHZ03709L Large scale tsunami generation and propagation due to a potential flank collapse off La Palma island: F Lovholt, G Pedersen, G Gisler</td>
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<td>0930h GHZ03710L Risk analysis and prognosis of hazardous geological processes in littoral zones for damage calculation (by the example of Baltic, Black, Caspian and Japanese seashores): G Koff, A Ivanova, I Chesnokova</td>
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<td><strong>GTM-01 General contributions to geomechanics</strong></td>
<td>0830h GTM01701L Multiphysical processes in environmental geomechanics – from large slope movements to underground nuclear waste storage: L Lalouli</td>
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<td>0900h GTM01702L Constrain of petrology on deformation behaviour of rocks in domain of time: An experimental approach on rocksalt from Lesser Himalaya: R Dubey</td>
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<td>0915h GTM01703L Geomechanical issues related to the safe disposal of the radioactive waste at the waste isolation pilot plant: S Ghose</td>
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<td>0930h GTM01704L Improving landslide forecasting models using ground based SAR data: the Portaleto case study: G Herrera, J Fernandez, D Ponce de Leon, P Mira, J Mulas, M Pastor, L Noferini, L Guido, D Mecatti, G Macaluso, M Pieraccini</td>
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<td>0945h GTM01705L Digital terrestrial photogrammetry by aerostatic balloon for rock slope stability analysis: G Firpo, S Riccucci, R Salvini, P Fantozzi</td>
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<td>1030h GTM01706L 3D numerical simulation of land subsidence caused by oil extraction: N Artamonova, S Sheshenin, E Kalinin, F Kiselev, L Panasyan, E Kakesheev</td>
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<td>1045h GTM01707L Stress field of a Lower Devonian gas field from borehole sonic and seismic data: H Stockhausen, H Abdallah, M Baena, S Laurent</td>
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<td>1100h GTM01708L Reservoir and crustal permeability based on shear stress: N Barton</td>
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<td>1115h GTM01709L Synopsis of the genesis of microcracks in brittle rock: A Bäckström, F Lanaro</td>
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<td>1130h GTM01710L Low-frequency seismic wave attenuation in porous media due to microscale yielding: V Yarushina, Y Podlachikov</td>
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Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.
GTM01711P On residual stress concentration zones in rocks: I Aitmatov
GTM01712P Slope stability analysis and practical consolidation methods: S Balint, R Gaspar
GTM01713P Geophysical investigations in salt mines: C Marunteanu, V Niculescu, M Mafteiu
GTM01714P Non-linearity and instability of change of environment density of the Earth with growth of its deformation: H Gulyev
GTM01715P Comparison of bore hole geophysical data with crystalline rock classification: B Danielsen, L Bjelm, P Alm
GTM01716P Problems in subsurface development upon high-rise construction in Moscow: O Eremina, V Kutepov, N Anisimova, I Kozhevnikova
GTM01717P New ways of geotechnical engineering for reinforcing natural soils at construction: S Filimonov, V Osipov, L Rogachevskaya
GTM01718P The lime-silicate additives influence on improvement of sorption capacity in clays: I Brazhnik

Tuesday 0830h
GTR-01 General contributions to geological remote sensing – Part 2
0830h GTR01712L Subsatellite system of remote sensing of arctic terrain: Y Tsvetkov, S Filippov, A Pchelkin, M Ivanova
0845h GTR01713L Lithographic mapping in the Oscar II coast area, Graham Land, Antarctic Peninsula using advanced spaceborne thermal emission and reflection radiometer (ASTER) data: C Haselwimmer, T Riley, J Liu
0900h GTR01714L Remote sensing of glacier change on Disko Island, Nuussuaq Peninsula and Svartenhuk Halvo (West Greenland) since the Little ice age: M Citterio, F Paul, A Ahlstrom, H Jepsen, A Weidick
0915h GTR01715L Synthetic aperture radar interferometry study of the Brady Glacier, Alaska: J Hurtado, A Barud
0930h GTR01716L Remote sensing analysis of quaternary deformation in the Hindukush-Pamir region: S Mahmood, F Shahzad, R Glaougen
0945h GTR01717L The new digital geological map of Mt. Everst – Based on field work and remote sensing: G Bax, M Searle, J Frankelius

Tuesday 0830h
HPP-04 From Rodinia to Nuna and beyond: Precambrian supercontinent reconstructions delving deeper in time – Part 2
0830h HPP04060L New SHRIMP U-Pb zircon ages of Yanbian Group: Evidence for neoproterozoic retro-arc rifting in the western margin of Yangtze continent: C Zhang, L Gao, X Shi, Z Wu, Y Sun
0845h HPP04060L Was there a pre-Nunan India? V Antartica connection? Evidence from SHRIMP U-Pb Zircon Data: S Reddy, C Clark, R Mazumder
0900h HPP04060L Tectonic links between the Gawler Craton and Curnamona province, southern Australia: Implications for reconstructions of Rodinia and Columbia: M Szpunar, M Hand, K Barovich, B Wade
0915h HPP04060L Palaeomagnetism and U-Pb dates of the Palaeoproterozoic Akitian Group (South Siberia) and implication for the pre-Neoproterozoic tectonics: A Didenko, V Vodovozov, S Pisarevskiy, D Gladkochub, A Mazukabzov, T Donskaya, A Stanievich
0930h HPP04061L The East European Craton (Baltica) at 1.6-1.4 Ga: Continuing supercontinent agglomeration or break-up?: S Bogdanova
0945h HPP04061L NENA in Nuna: Paleomagnetic confirmation of a long-lived (1800-1100 Ma) connection between Laurentia and Baltica: D Evans, T Raub
1030h HPP04061L Archean-Paleoproterozoic configuration of Laurentia and Baltica focusing on paleomagnetic data from Baltica: S Mertanen, F Korhonen
1045h HPP04061L Palaeoproterozoic Fedoraovo-Pansky PGE-bearing layered intrusion of the N-E Baltic Shield: New isotope data: P Serov, T Bayanova
1100h HPP04061L The search for Archean-Paleoproterozoic supercratons: New constraints on Superior-Karelia-Kola correlations within supercraton Superia, including the first ca. 2504 Ma (Mistassini) ages from Karelia: W Bleekeer, M Hamilton, R Ernst, V Kulikov

Tuesday 0815h
HPS-08 Oligocene Series: A time of change in earth and life history
0815h HPS08070L North Pacific Oligocene diatom zonal stratigraphy and correlation of geological events: A Gladenkov
0830h HPS08070L Oligocene of the North Pacific shelf zones: Paleobiogeographic and paleoclimatic events: Y Gladenkov
0845h HPS08070L Paleoclimatic considerations of the Japanese oligocene molluscan fauna: K Ogasawara
0900h HPS08070L Climate and faunal change in the Oligocene Arctic Ocean: A Oleinik, L Marincovich, P Swart, R Port
0915h HPS08070L Resolving apparent conflicts between oceanographic and Antarctic climate records and evidence for a decrease in pCO2 during the Oligocene through early Miocene (34-16 Ma): S Pekar, N Christie-Blick
0930h HPS08070L Major change in depositional style and paleoclimate in the southeastern United States at or very near the Oligocene-Miocene boundary: R Weems, W Harris
0945h HPS08070L Paleogeography and biogeography of the Eastern Paratethys during Oligocene: S Popov
1030h HPS08070L Fresh- and brackish water fish faunas (otoliths) from the Oligocene of the western Paratethys – proxies for continental climate, paleogeography and biostratigraphy: B Reichenbacher
1045h HPS08070L The age of the Asmari Formation: Oligocene or Miocene?: G Laursen, S Monibi, T Allan, N Pickard, A Hosseiny, B Vincent, Y Hamon, A Moallemi, G Drullion

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1100h HPS08710L North sea Basin depositional history of the Oligocene based on dinoflagellate studies: K Sliwinska, C Heilmann-Clausen, C Dybkjaer
1115h HPS08711L Lizard extinctions and recoveries after the Eocene-Oligocene transition: M Augé
1130h HPS08712L A comparison of glauconite K-Ar dates and ^87Sr/^86Sr dates from Rupelian and Chattian strata, Campine area, Belgium: W Harris, E De Man, S VanSimaes, N Vandenberghe, J Wampler
HPS08713P Oligocene as the beginning of global acceleration of vertical tectonic movements: V Trifonov
HPS08714P New insights on the record of the Oligocene climate events: L Alegret, L Cruz, R Fenero, E Molina, S Ortiz
HPS08715P Obliquity-dominated glacio-eustatic sea level change in the early Oligocene: Evidence from the shallow marine siliciclastic Rupelian stratotype (Boom Fm, Belgium): H Abels, S Van Simaes, F Hilgen, E De Man, N Vandenberghe
HPS08716P Lithostratigraphy of placer-bearing Oligocene formations of West Siberia: A Lalomov, R Chefranov
HPS08717P A.G. Ablaev, S.A. Safarova. New data on stratigraphy of the lower Bikin depression, Far East Russia: S Safarova
HPS08718P Peccularities of Oligocene events in the northwest Pacific and its Folded Rim: V Chekhovich, A Gladenko, A Gladenko
HPS08719P Oligocene paleoenvironmental changes in the South Carpathian foreland (Romania): R Roban, M Melinte-Dobrescu
HPS08720P Multi-proxy sea surface temperature reconstructions from the late Eocene-Early Oligocene, Walvis Ridge. Evidence for precursory cooling ~ 1 million years prior to Oi-1?: F Tort, S Monechi, V Peck, C Riesselman

Tuesday 0830h
HYH-01 General contributions to hydrogeology – Part 1
0830h HYH01701L Integrated advanced geophysical studies in Deccan Trap Basalt for groundwater exploration in central India: D Kumar, N Krishnamurthy, S Chandra, A Bhatt, P Sreedevi, S Ahmed
0845h HYH01702L Clarifying seasonal variation of salt and water boundary by high power electrical survey and temperature measurement: H Asaue, A Miyakoshi, S Tomimori, A Marui
0900h HYH01703L Near shore Radio Frequency-Electromagnetics in hydrogeological studies: A Carvalho Dill, T Stigter
0915h HYH01704L Hydrogeophysics of cerro Prieto dam, NE Mexico: V Yutis, H de León Gómez, A Kotsarenko, D Masuch Oesterreich, F Izaguirre Valdes
0945h HYH01705L Rare earth elements in water from sedimentary bedrocks of Sikhote-Alin ridge, Russia: N Kharitonova, G Chelnokov, E Vakh
1030h HYH01706L Knowledge based groundwater quality investigation with special reference to occurrence of excessive fluoride in shivani watershed, south interior Karnataka, using geospatial information system: B Mahadeevappa
1045h HYH01707L Some natural and anthropogenic sources of groundwater contamination in northwest Himalayas: M Younafzai
1100h HYH01708L Chemical and isotopic investigations-clues to sources of groundwater quality deterioration in Wadi Al Bih aquifer of Ras Al-Khaimah Emirate, northern part of the United Arab Emirates (UAE): A Murad, H Garamoon, H Al-Nuaimi
1115h HYH01709L Hydrogeochemistry characterization of Neima, Mubazzarah and Ain Bu Sukhanah areas in the west of the southeastern part of Al-Ain area, United Arab Emirates (UAE): F Mahgoub, A Murad
1130h HYH01710L Quality of ground water with special reference to bacteriological contamination in Bangalore City, Karnataka, South India: H Rajanna
1145h HYH01711L Effects of facies of sand deposits on hydraulic conductivity: T Urakoshi, T Kawagoe
1400h HYH01712L Hydrogeological model in a test area of the Alban Hills (Rome): L Martarelli, S Furnari, M Moroni
1415h HYH01713L Hydrodynamical-thermal modelling of an alpine thermal system: Influence of paleoclimatic events: S Gallino, J Josnin, M Dzikowski
1430h HYH01714L Data deficiency: Attempt groundwater flow modeling or not?: A Panagopoulos, S Drakopoulou, V Perleros
1445h HYH01715L Hydrological modelling of the semi-arid Andarax river basin in southern Spain: F Andersen, S Stisen, I Sandholt, S Jorretro, A Pulido, K Jensen
1500h HYH01716L Hydrogeological mapping of the water-bearing of the area of Aрааqua—SP, in scale 1:25000: F Meaulo, A Saad, A Lima
1515h HYH01717L Hydrogeological characteristics of some artesian aquifers in the middle Venetian plain (NE, Italy): P Fabbi, E Marcolongo, A Rosignoli, P Zangheri
1600h HYH01718L Improvement of principles and methods of regional hydrogeological and hydrogeochemical mapping: V Petrov, E Baskov, A Zastrozhnov
1615h HYH01719L An attempt of digital hydrogeological mapping of the Volga-Khoper artesian basin: A Zastrozhnov, V Petrov, O Zhuravleva, T Saevets, A Valieva
1630h HYH01720L Hydrostratigraphical analysis of the fluvio-deltaic aquifer system in eastern Bengal Basin: M Hoque, W Burgess
1645h HYH01721L Radiometric data as an auxiliary tool for hydrogeological mapping and groundwater monitoring in hard rock aquifers – experiences from radon measurements in Bavaria: G Diepolder
1715h HYH01723L Applying the precautionary principle to the assessment and management of groundwater pollution risk: An exemplification regarding nitrates coming from agricultural activities: E Cameron, G Peloso, G Pilla, G Giancetti, L Caravaglia

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.
Tuesday 0830h
IEA-04 The geoarchaeological perspective: Human interactions with the geosphere
0830h IEA04701L Sustainability out of the past: How geoarchaeology can save the planet: E Guttmann
0900h IEA04702L Geological and climatic limitations on agricultural development of the Forest Zone at the East European Plain: O Trapezникова

IEA04703L Climate and human-induced land cover change in the recharge area of Xiangshui River, SW China during the Holocene: Insights from the presence and absence of the riverine tufa: Z Liu, H Li, N Wan

IEA04704L An uncommon registration of man-induced landscape changes at the Messchenveld palimpsest site: H Wolding, P Cleveringa, J Schokker, H De Wolf

IEA04705L Quaternary landscape evolution and human occupation in Northwestern Argentina: L Neder, M Sampietro Vattuone

IEA04706L Reconstruction of environmental conditions for selected cultural periods in an old settlement area: A Raab, J Völkel

1045h IEA04707L Holocene environmental and climatic changes evidenced at Lake Maliq (Albania) and history of the human settlement: E Fouache, S Desruelles, M Magny, A Bordone, C Oberweiler, C Coussot, G Touchais, P Lera, A Lezine, U Von Grafenstein, S Belmecheri, J Tiercelin

1100h IEA04708L Hillforts as records of human and nature interactions history: V Turuka, L Kalinka, A Vasks

1115h IEA04709L Human interactions with the geosphere in historic and prehistoric mining areas: T Raab, J Völkel

IEA04710P Human-landscape interactions on the Tehran Plain during the Neolithic-Chalcolithic, transition and Iron Age: 14C and OSL dating of alluvial fan deposits at Tepe Pardis, Iran: G Gillmore, T Stevens, R Coningham, C Batt, H Fazeli, R Young, J Buylaert

IEA04711P Holocene environmental variability, the rise, and fall of an Elymian Polity (Western Sicily): H Chad, M Kolb, K Hjelle

Tuesday 0830h
IEE-02 Geoscience for schools in developing countries

0830h IEE02700L Introducing Geoscience: A Reedman

0900h IEE02701L Status of geoscience education in schools of Nepal: B Upreti

0915h IEE02702L Geoscience education at school level in developing countries: A foundation for natural hazard preparedness: B Saha

0930h IEE02703L Importance of geology education in schools of developing countries: V Husain

0945h IEE02704L Geosciences in schools: A tune of confidence to developing countries to take on challenges of the 21st century: O Varma

1030h IEE02705L Geoscience in school: An Indian experience: S Sadhna, B Kumar

1045h IEE02706L Geoscience literacy amongst students in secondary school level-a case study from India: M Das, S Goswami

1100h IEE02707L Geoscience Awareness and Training Centre (GATC) of the Geological Survey of Bangladesh: Its objectives and action plans: A Akhtar

1115h IEE02708L Spreading of geoscience awareness among mass population: Target groups, awareness programs and implementation: M Hasan

1130h IEE02709L Geoscience awareness: An imperative for human survival and welfare: M Hasan

1400h IEE02710L Importance of introducing Geoscience for the secondary and post secondary education level in Sri Lanka: A Wickramasooriya

1415h IEE02711L Geoscience in modern Russia: E Nesterov, V Solomin

1430h IEE02712L The myriad ways of teaching – from Science Centres to Traveling Exhibitions to Earrings!: P Vickers Rich

1445h IEE02713L Geology applied on environmental education projects: F Felicio

1600h AGID General Assembly

IEE02714P Evaluation of geosciences common sense in studentes in primary school: a metodological proposal: D Bacci, L Oliveire, M Nascimento

IEE02715P Need for teaching geosciences at school levels in South Asian and other developing countries: S Choudhary, V Husain

Tuesday 0800h
IEI-05 If you can't find the data, why bother collecting and keeping it? – the importance of good metadata

0800h IEI05701L Geoscience metadata – An asset management tool: J Giles

0815h IEI05702L How to create Metadata from a data product specification or vice versa: J Wesche, P Ryghaug

0830h IEI05703L Transcultural Knowledge with the help of a Multilingual Thesaurus: J Gersemann

0845h IEI05704L The INSPIRE Metadata Implementation Rules – challenges for the geosciences: P Ryghaug

0900h IEI05705L Metadata on a feature level – can it be done using the ISO 19115 standard?: P Ryghaug

0915h IEI05706L The Principles of Good Metadata Management: J Giles

0930h IEI05707L Managing collections for exploitation: J Giles

Tuesday 0830h
MPM-13 Inclusions in minerals

0830h Introduction

0845h MPM13701L Fluid inclusion study on carbonatite dykes and adjacent quartzite in Bayan Obo, inner Mongolia, China: P Ni, A Rankin

0900h MPM13702L Comparison of melt (according to melt inclusions studying) and rocks compositions – new ideas for modeling of genesis of ore-bearing rare-metal granites: E Badanina

0915h MPM13703L Fluid regime evolution of the tin deposit Solnechnoe (Russian Far East): N Bortnikov, T Krylova, N G orelo kova, P Korostelev

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium's oral presentations.
0930h MPM13704L The high-temperature and hypersaline fluid inclusions and its implications to the metallogenesis in Duobuzu porphyry copper deposit, Tibet, China: H She, J Li, C Feng, D Ma, G Li, G Pan
0945h MPM13705L Autoclave homogenization of silicate melt inclusions in magmatic minerals under external water pressure: An experimental study: S Smirnov, V Thomas, E Sokolova, I Kupriyanov, I Annikova

PMPL1706P PVTX features of inclusions in magmatic fluids of different types: I Peretyazhko

PMPL1707P Magmatic fluids evolution at formation of ongonite massif Ary-Bulak (East Transbaikalia, Russia): E Savina, I Peretyazhko

PMPL1708P CO2-rich fluid inclusion in upper mantle-derived peridotites, Pannonian Basin: A complex study: M Berkesi, K Hidas, C Szabo


PMPL1710P The redox-potential of heterogeneous ore-forming fluids as a factor of their metal bearing capacity and geochemical specialization of rare-metal Sn-W and Cu-Mo ore-magmatic systems: A Borisenko, A Borovikov, G Pavlova, S Paleiskiy

PMPL1711P Ore mineralogical and fluid inclusion study of Au- Cu- occurrence of Ulziit-ulul site in Dunzovu imag, Mongolia: O Sambuu

PMPL1712P Immiscibility in water-silicate-salt (fluoride-sulfate) systems: Z Kotelnikova, A Kotelnikov

PMPL1713P TEM study of star garnet from Idaho: Implication to the origin of rutile needles in garnet of metamorphic rocks: H Chu, S Hwang, P Shen, T Yui

PMPL1714P Kumdykolite, an orthorhombic polymorph of albite, from the Kokchetav ultrahigh-pressure massif, Kazakhstan: P Shen, S Hwang, H Chu, T Yui, J Liou, N Sobolev

PMPL1715P The role of clay minerals in the first alive entities formation: M Mailibayev, M Mailibayev

PMPL1716P Dating zircon inclusions in gem corundums from placer deposits, as a guide to their origin: K Gaw, L Sutherland, I Graham, B McGee

PMPL1717P Rb-Sr Isotopic Age of Pb, Zn and Ag Ore Deposit from the skarn body in the Suzhou region: W Yinxi, L Huiming, W Jiangming, Y Nianqiang

PMPL1718P Infra- and nanominerals and their bearing on understanding the metamorphic evolution of some ores: S Udubasa, L Petrescu, G Udubasa, P Hirtopanu, S Constantinescu, N Popescu-Pogron

0900h MPNP03707L Mineral replacement during scapolitization: A Engvik, H Austrheim, A Putnis, U Golla-Schindler, J Berndt, C Putnis

0915h MPNP03708L Fluid transport through minerals and element mobilization within the Earth: C Putnis, H Austrheim, A Putnis, A Engvik

0930h MPNP03709L Drying porosity waves: add fluids to dry up: T John, Y Podladchikov, A Beinlich, R Klemd

0945h MPNP03710L Porosity evolution and mass transfer during low-grade metamorphism in crystalline rocks of the upper continental crust: T Weisenberger, K Bucher

1030h MPNP03711L Dissolution-reprecipitation of zircon at low-temperature, high-pressure conditions (Lanzo Massif, Italy): D Rubatto, O Muntener, A Barnhoorn, C Gregory

1045h MPNP03712L A simplified minimum norm approach for estimation of volume strain and geochemical mass transfer in metasomatic alterations: P Mukherjee, P Gupta

1100h MPNP03713L Metasomatic evolution of amphibolites during cooling and uplift – The origin and significance of zonation in amphiboles and other hydrous minerals: B Sorensen

1115h MPNP03714L The mechanism of myrmekite formation deduced from steady-diffusion modelling based on petrography: Case study of the Okueyama granitic body, Kyushu, Japan: T Nishiyama, T Yuguichi

1130h MPNP03715L Reaction textures in a suite of kyanite rich rocks from parts of Singhbhum Cu-U belt, East India: evidence of repeated fluid flux in a mid crustal ductile shear zone: N Sengupta, P Sengupta, S Sarkar, A Gupta

1145h MPNP03716L Interfaces and growth mechanisms of hydrothermal metasomatic sulphide crystals: I Bonev

Tuesday 0830h

NWG-01 Geology and disposal of nuclear waste: Global perspectives

0830h NWG01701L Assessment of geological repository of high level radioactive waste on island arcs with special reference to heat and hydrothermal activities: S Tamanyu, K Sakaguchi, T Sato, M Kato

0845h NWG01702L Siting Japan’s HLW Repository 1: Addressing the tectonic issues in deterministic approach: H Tsuchi, J Goto

0900h NWG01703L Siting Japan’s HLW repository 2: Addressing the tectonic issues in probabilistic approach: J Goto, H Tsuchi, N Chapman, H Kawamura

0915h NWG01704L Ice age influence on a nuclear waste repository in Sweden. A review of SKB’s safety assessment SR-Can: O Toverud, P Holmlund

0930h NWG01705L Nuclear waste and the necessity of a long-term isolation under strict safety: N Mörner

1030h NWG01706L The international Mont Terri rock laboratory; research in an argillaceous gormation for deep geological disposal: P Bossart, A Kühni
1100h NGG01707L Possibility of a geological repository for nuclear wastes in a thick, extensive claystone body: Research results from Hungary: G Varga, Z Berta, J Csicsák, A Halász, G Hámós, G Konrád, I. Kovács, G Majoros, Z Mathé

1130h NGG01709L Specific geotechnical problems issued by the closure and ecological reconstruction of tailing ponds containing radioactive wastes: O Mihai, D Caranda

NGG01710P Short and long term natural cementitious analogues in Jordan: H Khoury

NGG01711P Estimation of excavation damage zone around an underground hard rock drift excavated by blasting: J Synn, B Choi, H Kim

Tuesday 0830h

PEE-01 Earth and Health: building a safer environment

0830h PEE01701L Earth and health – the impact of the geological environment on our health: O Selinus

0900h PEE01702L Soils and geomedicine: E Steines

0930h PEE01703L Integrating Earth Science and Public Health: Milestone and Recent Developments: J Centeno

1030h PEE01704L Endocrine disrupting substances in the late anthropocene and breast and prostate cancer: J Plant, A Mckinlay, N Rebecca and Voulvoul

1100h PEE01705L Medical geology: A glance into the future: R Finkelmann

1130h PEE01706L Natural mineral dust and human health: A review: E Derbyshire

Tuesday 0830h

PIP-02 The geology of Mars and Venus – recent results

0830h PIP02701L Lakes and hot springs on Mars: J Rice

0900h PIP02702L Topography and morphology of low shields and other plains volcanism landforms on Mars: E Hauber, J Bleacher, R Greeley, D Williams

0915h PIP02703L A rapidly emplaced, turbulent lava flow in Athabasca Valles, Mars: W Jaeger, L Keszthelyi, A McEwen

0930h PIP02704L Pit Craters: An evaluating tool for rift processes on Mars: M Spagnuolo, A Rossi, F Bechis

1030h PIP02705L A review of flood lavas across the solar system: L Keszthelyi, W Jaeger, A McEwen, S Self, T Thordarson

1045h PIP02706L Exploring Mars at sub-meter scales with MRO/HIRISE: A McEwen

1115h PIP02707L The structural control of impact craters: Evidence from the terrestrial planets: T Öhman, M Aittola, V Kostama, J Raitala

1130h PIP02708L Hydrological phases of Claritas Fossae, Mars: J Raitala, P Esetime, J Korteniemi, V Kostama

PIP02709P Time duration of astra-novae activity on Venus: A Basilevsky, M Aittola, J Raitala, J Head

PIP02710P Erosion levels in the Dao, Nger and Harmakhis area, Mars: V Kostama, M Ivanov, J Raitala, J Korteniemi, T Törmänen

PIP02711P Venusian polygonal impact craters vs. tectonics: M Aittola, T Öhman, J Raitala, V Kostama, T Törmänen

PIP02712P Results of new survey of coronae and arachnoids on Venus: T Törmänen, V Kostama, M Aittola, J Raitala

PIP02713P Reassessment of the “Life on Mars” hypothesis: K Thomas-Keptra, S Clemett, D McKay, E Gibson, S Wentworth

Tuesday 0830h

SES-01 General contributions to sedimentology

0830h Introduction

0845h SES01701L Depositional environment, facies analysis and sequence stratigraphy of Amari formation in Zagros Basin, SW Iran: H Mohseni, R Mohammadi, S Khodabakhsh, A Yarmohammadi

0900h SES01702L Facies, paleogeography and depositional sequence analysis in a Proterozoic foreland: Chattisgarh Basin, central India: P Chakraborty, S Paul

0915h SES01703L An introduction to the MTS in Meso-Proterozoic carbonates of China: Occurrences, stratigraphy, geochronology and sedimentology: Y Liu, H Küang, Y Liu

0930h SES01704L New research on rodinia super continent and reconstruction of paleocean environment in Neo-Proterozoic period (850Ma-750Ma): X Meng, M Ge, B Robert, Nielsen

0945h SES01705L Reservoir potential of the Middle Jurassic Saman Su Formation, Sheikh Budin Hills Section, Trans Indus Ranges, northwest Indo-Pakistani Plate, Pakistan: A Ninami, R Sheik

1030h SES01706L Deltas, shelf margins and the generation of turbidites: R Steel, C Ölieru, A Petter

1045h SES01707L Shelf genesis revisited: W Helland-Hansen

1100h SES01708L Sedimentological study of deltagic evolution using 3D seismic data: C Gracia-Graray, P Weber, G Stampfl

1115h SES01709L Seismic triggering on active tectonic continental margins: Implications for hazards plus turbidite and mass transport deposition: H Nelson, C Goldfinger, J Johnson, A Morey, J Gutierrez Pastor, C Escutia

1130h SES01710L The relationship between anoxic bottom-water conditions and the formation of Neoproterozoic molar-tooth in fine-grained marine deposits: J Nielsen, N Hanken, X Meng, M Ge

1145h SES01711L Detrital zircon U-Pb age constraints on the provenance of the southeastern Yellow Sea sediments: T Choi, Y Lee, Y Orihashi

1400h SES01712L Alterations of sandstones in the gas-, water- and transition zones of a depleted gas reservoir: M Bottig, S Gier, W ilig

1415h SES01713L Anomalously thick (~30 m), Holocene, fluvial succession at Masjok, Tana, northern Norway: the role of scour-and-fill processes and base-level control: R Eilertsen, G Corner

1430h SES01714L Holocene sedimentation on submerged karst: Example from the northern Adriatic: M Juracic, C Benac, R Cmrnic

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.
1445h SES01715L The sedimentary evolution of a mud depocenter in the southern north sea since the medieval warm period: H Hass

1500h SES01716L Rapid delta-formation by the rhine after medieval river dike-failure: H Weerts, M Kleinhaus, K Cohen

SES01717P Depositional environment and microfabrics of Dashtak Formation at Aghar#1, West Aghar#1 and Naura#1 boreholes subcostal Fars (Zagros Basin) Iran: H Mohseni, M Khoshnoodky, M Hajian, B Rafiee, H Mohseni, M Khoshnoodky, M Hajian, B Rafiee

SES01718P Inferred transport conditions from clast fabrics of the Rosario Fm submarine channel gravels: J Milan, B Kneller, M Dykstra, P Thompson

SES01719P The origin of Micrasparite (MT- Molar tooth) carbonates and the significance in the evolution of the Earth in Proterozoic: M Ge, X Meng, H Kuang, F Bourrouillih-lejan, Nielsen

SES01720P Analytical expression of Golovkinsky-Walter’s law with reference to Permian strata of Volga – Ural region: G Berthault, V Izotov, A Lalomonov, L Sdikulova, M Akhmetshakirov

SES01721P Approximation of fine sediments’ transport: A Kask, A Erm, V Alari

SES01722P Aptian-Albian microbial carbonates of the Brazilian continental margin – the geological record of an ocean’s birth: G Terra, V Lemos

SES01723P Chronostratigraphy and microfabrics studies of Iam and Sarvak formations in one of the oil fields in Dezful embayment: B Habibnia, A Akbari

SES01724P Clay mineral association of Triassic siliceous sediments and acidic tuffs at arrow rocks, northland, New Zealand: T Nishimura, C Ashihara, A Takemura, S Takemura

SES01725P Composition of continental clastic rocks as a reliable paleoclimatic indicator: P Dutta

SES01726P Composition, depositional setting and provenance of the fluvial Watcha Sandstone, Salt Range, Pakistan: S Ghazi, N Mountney

SES01727P Crinkle cracks: Subaqueous sand-filled contorted cracks in mud formed by waves: D Winston

SES01728P Depositional environments and palaeogeographic evolution of Early-Middle Jurassic Basin, NE-Turkey: R Kandemir, C Yilmaz

SES01729P Depositional history of Jahrum Formation (Late Eocene) based on distribution of large benthic foraminifera and strontium isotope stratigraphy on the Bushehr area: S Moallemi, M Adabi, A Sadeghi

SES01730P Discussion on origin of molar tooth carbonate rocks: An example from Neoproterozoic in the Ji-Liao area of China: H Kuang, y liu

SES01731P Distinction between sharp-based mouth bar and point bar deposits: The Eocene Green River Formation, Utah, USA: A Kjemperud, E Schomacker, J Jahren, J Nystuen

SES01732P Dolomitization and dedolomitization of Jurassic limestones from central Dobrogea (SE Romania): C Cazacu, C Panaitou

SES01733P Facies architecture and cyclicity of Svalbard’s Late Palaeozoic shelf strata: Warm-water platform versus cool-water ramp (wordiekaamnen formation, kapp starostin formation): D Blomeier, H Forke, C Scheibner

SES01734P Heavy minerals in beach sediments: A forensic approach: M Repele

SES01735P Insights into flood-dominated, mixed siliciclastic-volcaniclastic fan delta: Very high-resolution seismic examples off the Amali cliffs coast, eastern Tyrhenian sea: F Molisso, C Violante, E Esposito, D Inzinga, C Lubritto, S Porfidio, T Toth, M Sacchi

SES01736P Late Ordovician changes in a siliciclastic source area for the Oslo region: J Hansen, J Nielsen, N Hanken


SES01738P Multi-stage mineralisation of black shales and diagenetic carbonate concretions of Late Permian, East Greenland: Evidence from petrography and S-ph-isotope geochemistry of metal sulfides: J Nielsen, A Boyce, M Pedersen, Y Shen, J Nielsen

SES01739P Origin and stratigraphy of the Wapiennik Breccia Member, Plinyen Klippen Belt, Carpathians: A Sobstyl

SES01740P Paleogene calcrites from southeastern Brazil: L SantAnna, M Carvalho, A Sial

SES01741P Permian to Triassic gravity-flow deposits related to the collapse of the Permian seamount in the Deadman Bay Volcanics, the San Juan Island, Washington State, USA: T Yamagata

SES01742P Rhythmic deposits in the the upper Cretaceous lacustrine deposits at Yeosu area, Korea: Occurrences and origin: I Paik, Y So, H Kim, H Lee, H Yoon, H Lim, M Huh

SES01743P Ripple patterns generated by laboratory oscillatory flow with intervening hiatuses: Implications for sediment dynamics near wave base: N Yamaguchi, H Sekiguchi

SES01744P Sedimentary facies and environment of the Shari playa, central Iraq: R Jassim, Y Al Rawi, R Habib

SES01745P Sedimentological characterization in holocene seismo-turbidites of the Cascadia subduction zone and northern San Andreas fault active margins (North America): J Gutierrez-Pastor, C Nelson, C Goldfinger

SES01746P Sedimentological study of coalescent fans in the municipality of Campo Elias, Merida State, Venezuela, as part of the multinational andean project: N Montilla, O Freites, L Jackson

SES01747P Sedimentology and Sediment processes in Gorgan bay: M Gharibrea, A Motamed, H Rahimipour
**SES01748P** Sedimentology and sedimentary geochemistry studies of Bandar-e-Anzali area in margin Caspian Sea: A Karimkhani Bahador

**SES01749P** Sedimentology of the Maharlou Lake, SW Iran signficance of evaporites: R Lak, M Kalani, F Fayazi

**SES01750P** Sedimentology of the upper Eocene Nisai formation, Pishin basin, Pakistan: A Nizami, M Ashraf

**SES01751P** Seismic facies of Pliocene sediments in the southwestern Caspian Sea: significance of depositional environments reconstruction: M Kalani, S Khoadabkhsh

**SES01752P** Sequence stratigraphy of an alluvial foreland basin succession: Escanilla Formation, Ainsa Basin, Spanish Pyrenees: A Kjemperud, E Schomacker, J Nystuen, J Jahren, C Puigdefabregas

**SES01753P** Sequental development of depositional systems and provenance analysis in a half-graben type strike-slip basin: The Cretaceous Yongdong basin, Korea: B Kim

**SES01754P** Short-term backshore coarsening process during a storm: K Udo

**SES01755P** Supra-regional sequence biostratigraphic correlation of late Carboniferous, carbonate platform deposits: From Svalbard (Norway) to the Sverdrup basin (Canada): C Scheibner, H Forke, D Bloemers

**SES01756P** The cements of Paleozoic sandy rocks of the north-west of Russian Platform: D Komissarov

**SES01757P** The Jurassic-Cretaceous Russian Plate phosphorites: S Maleonkina

**SES01758P** The relation between lithofacies-paleogeography and groundwater quality of the Lower Cretaceous in the Ordos Basin, China: Y Xie, J Wang, X Jiang, G Hou, Y Wang, G Deng

**SES01759P** The structure of Serpukhovian and Bashkirian deposits in Eastern part of Pre-Caspian depression: L Akhmetshina, A Kan

**SES01760P** Thickness and facies belt distributions in the Jurassic San Rafael Group and Morrison Formation, Utah, USA: E Schomacker, A Kjemperud, T Cross, J Nystuen, J Jahren

**SES01761P** Update of the geological map of the metropolitan area of Mérida, Venezuela: N Montilla, E Jimenez, J Gutierrez

**SES01762P** Use of multivariate analysis in the study of sediments characterization: R Ferreira, A Moraes, E Lima, V Neumann

**SES01763P** Volcanic deposits characterization for hydrogeological purposes using clay mineral determinations (xrd, sem, tem) and effective porosities in the southern Andes, Colombia: V Zapata Pardo, E Salazar Ortiz

**SES01764P** Multistage dolomitization in the Tarbur Formation: H Hooshmand, M Adabi, A Sadeghi, H Amiri Bakhtiyar

**SES01765P** Dunes, wind & fire – a 11 ka record of aeolian sedimentation: M Kotilainen

**Tuesday 0830h**

**STT-02 Structure and formation of rift basins and passive margins from surface to depth: Observations and modelling**

0830h **STT02701L** The magmatic record and continental extension: C Hawkesworth

0900h **STT02702L** Melt distribution in the Ethiopian rift system: Constraints from seismic observations and modelling: J Hammond, J Kendall, D Angus, J Wookey, D Keir, C Ebinger, A Ayele, G Stuart

0915h **STT02703L** Dynamical modelling of lithospheric extension and small-scale convection: Implications for magmatism during the formation of volcanic rifted margins: R Huismans, K Simon, C Beaumont

0930h **STT02704L** The role of magmatism in rift formation: Numerical modelling: Y Elesin, T Gerya, I Artemieva, H Thyo

0945h **STT02705L** Three-dimensional numerical modelling of rifting: C Thieulot, R Huismans

1030h **STT02706L** The rift-to-drift transition in the North Atlantic: A stuttering start of the MORB machine?: O Jagoutz, O Müntener

1100h **STT02707L** Temporal evolution of a cratonic rift in the north atlantic region as inferred from alkaline and carbonatite magmatism: S Tappe

1130h **STT02708L** Mantle phase changes, partial melting and subsidence during rifting: N Simon, Y Podladchikov

1145h **STT02709L** Are phase changes at the origin of the large subsidence of Barents sea basins? insights from dynamical numerical modelling: S Gac, R Huismans, N Simon, J Semprich, Y Podladchikov

1400h **STT02710L** Measuring the geomorphic consequences of continental rifting: R Brown, K Gallagher

1430h **STT02711L** Depth-dependent evolution of the Newfoundland-Iberia conjugate rifted margins: N White, A Crosby

1445h **STT02712L** Application of terrestrial laser scanning to constrain the 3D outcrop geometry of passive margin normal faults and tilted fault blocks: The Jurassic-Cretaceous Sortlandsundet Graben, Vesterålen, North Norway: S Bergh, J Hansen, K McCaffrey, R Wilson, O Klovjan, P Osmondsen, B Davidsen, G Corner, B Hendriks, T Redfield

1500h **STT02713L** Basement reactivation, margin segmentation and transfer zone development during rifting in the Labrador Sea, South Greenland: Insights from onshore studies: R Wilson, P Japsen, J Chalmers, J Bonow, J Peulvast, P Green, K McCaffrey

1515h **STT02714L** Strain localisation and weakening of the lithosphere during extension: G Rosenbaum, K Regenauer-Lieb, R Weinberg

1600h **STT02715L** The transition from volcanic to magma-poor rifting: Constraints from the eastern Black Sea: T Minshull, D Shillington, C Scott, R Edwards, N White, P Brown

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1630h STT02716L Tectonic evolution of the west Siberian basin: M Allen, L Anderson, M Buslov, C Davies, I Safonova, R Searle

1700h STT02717L Structural, geochemical and geochronological constraints on the Carboniferous–Permian tectonic evolution of the northern Permian rifted basin: M Heeremans, M Zimmerman, L Kirstein, K Obst, B Larsen

1715h STT02718L Structural development of outer highs in rift-shear margin transitions: A comparative study from volcanic and non-volcanic margin settings: A Antobreh, J Faleide, S Planke, P Symonds, D Muller

1730h STT02719L Evolution of the Newfoundland–Iberia conjugate rifted margins: A Crosby, N White, G Edwards, D Shillington

STT02720P 2D numerical modelling of upper mantle flow beneath mid-oceanic ridges: Z Zariifi, R Huismans

STT02721P A simple-shear rifting in the southern Urals carboniferous evolution: N Pravikova, A Tevelev, A Tevelev, I Kosheleva, A Rudakova

STT02722P Basement involvement and structural inheritance as controls on offshore basin architecture along the Australian southern continental margin: G Gibson, I Tootrell, J H White, A Stacey

STT02723P Challenging classic concepts of structural geology and landscape evolution: Insights from Land- and Space-based geodesy of the Louisiana coast: R Dokka

STT02724P How rose up the Ali Sabieh bloc (Afar triple junction)? New insights from faulting analysis: C Sue, A Mohamed, L Bernard, R Joel

STT02725P Kinematic analysis of the Atuel depocenter: A late Triassic to Early Jurassic rift, Neuquén basin, west-central Argentina: F Bechis, L Giambiagi, S Lanes, V Garcia

STT02726P Lithospheric scale of transform faults: W Thomas

STT02727P Mesozoic tectonic evolution of the Cabo Frio High, Southeast Brazil: Onshore and offshore structural and magnetic data: N Stanton, R Schmitt, M Mane, M Maia, A Galdeano

STT02728P Overview of palaeogeography and processes of rifting and continental break-up in the E Mediterranean region of E Tethys: A Robertson

STT02729P Seismic imaging of the crustal and sedimentary structure of the Hatton Basin on the Irish Atlantic margin: A Chabert, C Ravaut, B O'Reilly, P Readman, P Shannon

STT02730P Styles of faulting and landscape evolution along the Somali plateau escarpment (southern Afar margin): A Pizzi, M Coltorti, G Pomposo, B Abebe, L Disperati, D Fruzabadi, L Pontarelli, G Sacchi, R Salvini

STT02731P Tectonic and structural evolution of Anah graben, west Iraq: S Fouda

STT02732P Tectonic processes at the transform margin of southern Africa: Evidence from the Agulhas-Karoo Geoscience Transect: N Parsiegla, K Gohl, G Uenzelmann-Neben, J Stankiewicz

STT02733P The Ladinian to Carnian rifting stage recorded by the peritidal carbonate platform of the Betic Cordillera: R Somma, I Martin-Rojas, A Estévez, V Perrone, V Zamparelli, F Delgado

STT02734P Triassic to holocene structural evolution of the southern levant rift basin / eastern Mediterranean: C Hubscher, D Stefan

STT02735P What kind of tectonic event occurred between 15 Ma and 3 Ma in southern part of NE Japan Arc?: Meso-scale deformations of late Miocene intra-arc basin in northeastern Kanto district: M Otsubo, K Okuzawa, N Takeno, K Ito

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Posters presentations are held on the first day that a symposium runs and are listed immediately after that symposium's oral presentations.
Tuesday 12 August – Late Morning

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The following symposia begin in this session. Some symposia continue on the next day. Next day presentations may be found in the next day section.

Tuesday 1030h
EGG-01 General contributions to environmental geology – Part 2

1030h EGG01723L Calculating salt loads and salinity risk in floodplain landscapes: A systems-based multi-scale approach: K Lawrie, K Tan, C Pain, J Clarke, H Apps, L Halas, V Wong, D Gibson, K Cullen

1100h EGG01725L Estimation of contaminant transport from nearshore confined disposal facilities by ground water modelling and chemical data: m sparrevik, R Grini, m kvennaa, j laugesen

1130h EGG01727L Risk assessment around illegal landfill site based on geo-environmental methods: K Kamura, M Ishiwata, K Sato

Tuesday 1030h
EUR-07 Comparison of the Urallides and Variscides

1030h EUR07701L The Variscides, Urallides and Pangaea assembly: Insights from plate reconstructions and numerical modelling: T Torsvik, L Cocks, S Buiter


1115h EUR07703L Kinematics and deep structure of a major Variscan strike-slip deformation belt: A Ribeiro, J Romao, E Pereira, J Munha, A Mateus, R Dias, A Araujo

1130h EUR07704L Ophiolite belts in the sw-iberian variscan suture: A Ribeiro, J Pedro, C Tassinari, J Munha, A Araujo, P Fonseca, A Mateus, P Gil

1145h EUR07705L U-Pb ion microprobe dating and Sr and Nd isotope geology of the Galilei Igneous Complex. A model for the peralkaline/calc-alkaline duality of the Cambro-Ordovician magmatic rocks of Iberia: P Montero, F Bea, G Corretgé, P Floor, M Whitehouse


1430h EUR07707L The Vendian – Early Paleozoic tectonic evolution of the Southern Urals: A Belova, A Riazantsev, N Kuznetsov

1445h EUR07708L Layered and sheeted dike complexes of the ophiolite sequence: Genesis, composition and structural evolution (Khabarny Massif, south Urals): A Razumovskiy

1500h EUR07709L The Uralian orogen: Position and correlation, typical and individual features: V Puchkov

1515h EUR07710L Role of transtension tectonics during the Variscan geodynamic cycle, in the Sardinia-Corsica Massif: N Minzioni

1600h EUR07711L Contrasting Granitoids between Iberia and the Urals: Two diametrically opposed cases of orogenic magmatism: F Bea, G Fershtater, P Montero, A Krasnobaevev

1630h EUR07712L Ophiolites of the Urallides and Variscides: Generation Setting and Metamorphic Evolution: G Savelieva

1700h EUR07713L Tectonic evolution of the urals and adjacent part of the west-Siberian platform basement: K Ivanov, V Koroteev

EUR07714P Constraints on the nature of the crust and upper mantle across the variscan orogen of SW-Iberia from dense wide-angle seismic reflection data: I Palomeras, R Carbonell, P Ayarza, F Simancas, D Martinez-Poyatos, A Azor, F Gonzalez-Lodeiro, J Matas, A Perez-Estaun

EUR07715P A comparison of metallogeny of the Urallides and West-Central European Variscides in a geodynamic context: I Serakvin, V Puchkov

EUR07716P Basal subduction tectonic erosion (STE) and the construction of HP-UHP metamorphic belts: a new model for the Alps and its comparison with the Mackayutov Complex, southern Urals: M Osmaston

EUR07717P Evolution of the REE distribution in clay sediments from central Europe: K Hahne, R Naumann, H Rotha, S Tonn


EUR07719P The comparison of the Urallide and Variscide histories of development: Y Gorozhanina, V Puchkov, V Gorozhanin

Tuesday 1030h
GHZ-10 Mountain risks: From prediction to management and governance

1030h GHZ10701L Risk governance and resilience: toward an operational framework. A case study from Kashmir, Pakistan post earthquake 2005: K Sudmeier-Rieux, A Breguet, J Dubois, M Jaboyedoff

1100h GHZ10704L Assessing debris flow hazard through physically based modeling and Monte Carlo techniques: J Malet, S Beugueria-Portugues, T van Asch, S Grondahl

1115h GHZ10705L A spatially distributed deterministic model for the management of shallow landslide risk: L Leoni, A Benedetti, F Catani, G Falorni, D Pellegrino, G Righini, R Rudari, S Segoni

1130h GHZ10706L Rockfall protection design by rockfall process modeling: M Thuering

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.
1145h GHZ10707L Spatial analysis of permanent scatterers (PS) for identifying slow moving landslides: P Lu, G Falorni, F Catani, N Casagli

1400h GHZ10708L Landslide susceptibility and associated confidence by spatial analysis: Two applications in northern Italy’s mountain areas: A Fabbri, S Poli, S Sterlacchini, A Cavallin, C Chung

1415h GHZ10709L An innovative approach for management and governance of rapid mass movement, risk assessment and mitigation measure: The case study of Monte Pendolo, Gragnano village: D Spizzichino, L Serva, R Policicchio, D Ligato, L Pistocchi

1430h GHZ10710L Hydrological and geotechnical factors for hazard and risk management of slow moving landslides in varved clays: T Bogaard, T Van Asch, J Malet

1445h GHZ10711L Reevaluation of Geologic Hazards in a Mountain Setting: The Case of the Climax 7.5’ Quadrangle, Central Colorado, USA: J McCalpin

1500h GHZ10712L Rainfall threshold for landslide triggering. A hydrological approach with the Curve Number method: A Benedetti, N Casagli

   GHZ10713P Geophysical and hydrological monitoring of water flows in landslides by using large-scale infiltration experiments: J Travelletti, T Debieche, E Garrel, G Grandjean, F Matthieu, J Malet, J Ponton, V Allegre, S Garambois

   GHZ10714P Historical, geomorphological and geotechnical characterization of the Signatico landslide (northern Apennines, Italy): G Mandrone, A Chelli

   GHZ10715P Landslide hazard assessment of a rocky cliff by means of the Romana SMR index: G Barbieri, P Cambuli, L Falzoi

   GHZ10716P Occurrence and susceptibility assessment of rock-block slides on clay-shale tectonized slopes: J Malet, G Peña-Rincón, O Maquaire, D Hantz, C van Westen, J Travelletti
The following symposia begin in this session. Some symposia continue on the next day. Next day presentations may be found in the next day section.

**Tuesday 1400h**

**AFR-04 Geoscience in Africa**

1400h AFR04701L The African-European Georesources Observation System (AEGOS): P LERDU, M UROIS

1415h AFR04702L Palaeogeography and deformation of Africa through late Jurassic-Cretaceous times: F Guillancheau, N Rolland, J Colin, C Robin, D Rouby, C Helm, O Dauteuil, J Tiercelin

1430h AFR04703L TopoAfrica project: Reconstruction and quantification of the past topography of Africa over the last 250 My: F GUILLOCHÉAU, J Braun, S Bourquin, K Gallagher, C Robin, D Rouby, J Tiercelin, D Chardon, F Christophoul, Y Godderis, M Roddaz, S Rousse, A Beauvais, D Frizon de Lamotte, P Leturmy, Y Donnadieu

1445h AFR04704L The sedimentary supply of African sedimentary basins over the last 250 Ma: D Rouby, F Guillancheau, C Robin, C Helm, S Bonnet, J Braun, O Dauteuil, K Gallagher, N Rolland, F Biancotto

1500h AFR04705L Use of thermal springs for geochronological exploration in Ethiopia: F Yimamu

1515h AFR04706L Trace metal distribution in surface soil around active and abandoned dumps, City of Lagos: A Odokuya, F Abimbola

1600h AFR04707L Groundwater and solute transport numerical modeling using GIS of the eastern coast of cap-bon (Tunisia): A Zghibi

1615h AFR04708L Tracing the source(s) of banded iron formations deposited during the ~2.7 Ga global mantle activity: An example from the tati greenstone belt, northeastern Botswana: L Dissing, R Frei, H Stendal, R Mapeo

1630h AFR04709L International Geoscience Programme (IGCP) in Africa: What perspective?: F Toteu

**AFR04710P** The impact of anthropogenic activity on groundwater system in the southern Nile Delta, Northern Egypt: M ElKashouty

**AFR04711P** Seismic hazard assessment from a revised earthquake catalogue in the Maghreb countries; Algeria, Morocco, Tunisia: From documentary sources: D Benouar

**AFR04712P** Geology map of the moroccan Central massif: A structural interpretation of the hercynian belt: D Fadli, M Zahroura, M El Wartiti, C Hoeppfrer, A El Hassani, A Tahiri, M Bouabdell, Y Cailleux, F Kharbouch, A Pique

**AFR04713P** Roberto Mantovani and La Réunion expansion: I Perin

**AFR04714P** Evolution of molybdenite mineralization fluids: Significance from fluid inclusions studies in quartz veins and hosting granite, north Eastern Desert, Egypt: B Ali, A Abdel Warith

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**Tuesday 12 August – Early Afternoon**

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**A005714P** Geology and geochemistry of hydrocarbons of arctic from Alaska to Barents sea in connection with oil and gas prognosis of arctic Shelf – the new highly prospective region of the XXI century: A Nemchenko-Rovenskaya, E Galimov, V Sevastyanov, K Seryshev

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Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium's oral presentations.
AFR04715P Environmental impacts on groundwater aquifer at Mersa Matruh area, northwestern coast of Egypt: K Dahab, M Abu Hashish, S El-Abd
AFR04716P NWAS: A tool for transboundary management of shared water resources: B Abidi
AFR04717P Investigations on plant remnants in a prehistoric Saharan highland rock shelter: G Coccolini
AFR04718P Early marine lithification and hardground formation in the upper Eocene rocks from Fayyum area, Egypt: A El-Shishtawy
AFR04719P Geologic and major ore deposits map of Cameroon (1:1 000 000): S Toteu, Y Deschamps, J Penaye

Tuesday 1400h
EUR-13 Neogene of NW Europe: Palaeoclimate, tectonics and sedimentation – Part 1
1400h EURI2701L Oligocene to Lower Pliocene deposits of the Norwegian continental shelf, with correlations to the Norwegian Sea, Greenland, Svalbard, Denmark and Fennoscandia morphology: T Eidvin, E Rasmussen, F Riis, Y Rundberg
1430h EURI3702L Identification of the Oligocene – Miocene boundary in the eastern North Sea Basin based on dinoflagellate cyst stratigraphy and δ13C-isotope data: K Dybkjaer
1445h EURI3703L Climate change and short-term variability in neogene continental sequences of Northwest Germany: T Utescher, A Ashraf, V Wilde, J Pross, A Schaefer, V Mosbruger
1500h EURI3704L Neogene Inversion of the Danish North Sea basin and sorgenfrei-tornquist zone: E Rasmussen
1630h EURI3706L Timing of the uplift of the Scandes mountains – a review of the offshore evidence: F Riis, T Eidvin, W Fjeldskar
1645h EURI3707L Provenance of miocene sand successions in Jutland, Denmark, constrained by bulk geochemistry, heavy minerals and zircon ages: M Ölvários
1700h EURI3708L Mass movement deformation of Miocene sediments in the northern North Sea: P Knutz

Tuesday 1400h
GAI-01 Gas hydrates in oceanic and permafrost environments – importance for energy, climate and geohazards
1400h GAIH01701L Explosive methane venting at hydrate/gas transition in the bedrock: N Mörner
1415h GAIH01702L Morphologic expression of gas hydrate growth and accumulation within the seafloor of the Santa Monica basin, offshore California: C Paull, W Ussler III, W Normark
1430h GAIH01703L Geophysical evidence of a gas hydrate system on the Nile deep-sea fan: D Praeg, J Mascle, R Geletti, V Unnithan, N Wardell, F Harmegnius
1500h GAIH01705L Structural controls on the formation of BSR over a buried anticline from a dense seismic reflection survey offshore southwestern Taiwan: C Liu, P Schnurle, Y Wang, S Chen
1515h GAIH01706L Causes of massive dissociation of marine gas hydrates: RMatsumoto, R Takeuchi, H Tomaru, A Hiruta, R Sanno
1600h GAIH01707L A basin modeling approach on gas hydrate formation assessment – Mackenzie basin, Canada: K Kroeger, R di Primio, B Horsfield
1615h GAIH01708L Why hydrothermal type of chemosynthetic community was found in a cold seep environment: S Lin, C Liu, T Yang, H Machiyama, K Fujikura, Y Chen, Y Lim
1630h GAIH01709L A geophysical study of a Pockmark in the Nyegga Region, Norwegian Sea: TJose, T Minshull, G Westbrook, R Exley, H Nourze, S Ker, A Gailler, C Berndt

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.

238 The 33rd International Geological Congress, Oslo 2008
1645h GAH01710L Modeling of methane bubbles released from seafloor gas hydrate: Conditions required for methane emission to the atmosphere: A Yamamoto, Y Yamanaka, E Tajika

1700h GAH01711L Tri-axial compression test on hydrate bearing sediments from Eastern Nankai Through: A Masui, K Miyazaki, H Haneda, Y Ogata, K Aoki

GAH01712P Gas hydrates of seas and oceans as a source of hydrocarbons of the future: I Balanyuk, A Dmitrievsky, A Dmitrievsky

GAH01713P Cone penetration tests at gas hydrate bearing sediments in Lake Baikal: S Nishio, T Abe, S Yamashita, O Klystov

GAH01714P Evidence of gas hydrates and mud volcanoes in the western Ross Sea, Antarctica: R Geletti, D Praeg, M Busetti


GAH01717P Holocene methane emissions from cold seeps on the Sakhalin Margin, Okhotsk sea – Links to seismo-tectonic activity?: L Lembke-Jene, R Tiedemann, K Wallman, D Nuenberg, W Dullo

GAH01718P Isotopic composition and U-Th ages of methane-derived carbonates from the eastern margin of Japan sea: S Risa, A Hiruta, M Ryo

GAH01719P Methane fluxes from pockmark areas in Nyegga, Norwegian Sea: Y Chen, H Hafldason, J Knies

GAH01720P Oceanic gas hydrates on the Norwegian-Barents Sea-Svalbard margin: S Bünz, J Mienert, J Petersen

GAH01721P Seabed fluid structures and relations to gas hydrate reservoirs: B Hjelstuen, H Hafldason

GAH01722P The Vigrid “Diaper” Field on the south Voring Plateau, mid-Norwegian margin – mud diapirs or evacuation structures?: S Mats Bjørndal, B Hjelstuen, H Hafldason

GAH01723P Volumetric velocities of gas hydrate formation at the Obzhoi gas seep in the Sea of Okhotsk: T Matveeva, L Mazurenko

1430h GDP02703L Lapland granite-gneiss belt in context of deep crustal structure and Palaeoproterozoic evolution of the east European craton: M Mints, A Konilov, A Suleimanov, N Zamozhniaya

1445h GDP02704L The early to middle proterozoic orogen of northwestern Laurentia: D Thorkelson, D Milidragovic, W Davis, D Marshall, H Gibson

1500h GDP02705L Subduction, collision and chemical alteration during assembly of the Palaeoproterozoic Columbia supercontinent: The Greenland record: W Glassley, J Krostgaard, K Sorensen

1515h GDP02706L Constraints on Svecofennian evolution from detrital zircon ages – the palaeoproterozoic Västerbik quartzites: S Claesson, L Soltan

1600h GDP02707L Baltica, Amazonia and the SAMBA connection: A Johansson

1615h GDP02708L New palaeomagnetic, age and geochemical data from basic dykes of the Ukrainian shield and the timing of accretion of Fennoscandia to the Ukrainian shield: S Elming, L Shumlyansky, S Kravchenko

1630h GDP02709L New palaeomagnetic and isotopic data from Siberian mesoproterozoic rocks: R Veselovsky, V Pavlov

1645h GDP02710L Mesoproterozoic magmatism in southwest Norway: evidence of a convergent margin at 1.52-1.48 Ga: N Roberts, T Brewer (Decid.)


1715h GDP02712L Implication of magmatism in a terrestrial setting: A case study from the Palaeoproterozoic Dhanjori Formation, Singhbhum Crustal Province, eastern India: R Mazumder, M Arima

GDP02713P Provenance of the palaeoproterozoic Gamagara/Mapedi red bed succession and its implication for the evolution of the Kaapvaal Craton: U Zimmermann, A Lamprecht, N Beukes, J Gutzmer, T Miyazaki

GDP02714P Sedimentary provenance of the early Proterozoic Wenner Supergroup (Wennerke mountains, Yukon territory): F Furlanetto, D Thorkelson, H Gibson, D Marshall, R Rainbird

GDP02715P The IGC 509 database system: Effective collation of inter-regional geological information: B Eglington, S Reddy, D Evans

Tuesday 1400h
GDP-02 Nature of geothermal systems based on geophysical, geochemical, petrological and tectonic studies – Part I

1400h GDP02701L Fault-fluid interactions at the regional and reservoir scale, Taupo Volcanic Zone, New Zealand: J Rowland

1430h GDP02702L The Euganean geothermal field (NE Italy): Insight from structural geology: D Zampieri, P Fabbri

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposiums oral presentations.
1445h GET02703L Tectonic settings of low temperature geothermal activity in Iceland: Relation to plate boundaries, earthquakes, and rift jumps: M Khodayar, P Einarsson, H Franzon, S Björnsson

1500h GET02704L The application of integrated petrophysical analysis to geothermal system study: Y Frolova, V Ladygin

1515h GET02705L Cold front propagation in a fractured geothermal reservoir: A Toth, E Bobok

1600h GET02706L Geothermal Rifts (1) – 1 is hydrothermal convection a general feature: J Wellmann, K Regenauer-Lieb, E Schill

1615h GET02707L Geothermal characteristics of Turkey: An investigation by using aeromagnetic anomalies: O Bektas, A Ates, F Bilim, A Buyukserac

1645h GET02709L The Limagne geothermal reservoir (France): From 3D geological model to potential assessment: P Calcagno, C Baujard, A Dagallier, T Kohl, G Courrioux, L Guillou-Frottier, A Center

1700h GET02710L Fundamental criteria for exploring the geothermal resources of Yemen: M Mattash, M Mattash

Tuesday 1400h

GTR-02 Geological mapping using satellite techniques

1400h GTR02701L Highlighting geological structures under deep coverages using morphostructural analysis of SPOT 5 HRG imagery and associated DTM: G Lerouge, T Roussein, R Kourdian

1415h GTR02702L Detection of changes in the Chira and Piura lower – catchment’s areas, Sechura desert – Peru, based on spatial and spectral analyses of multitemporal Earth observation data: V Kopackova, M Rajch, D Nývlt, J Sebesta, T Hroch, J Vít

1430h GTR02703L Geostatistics and remote sensing for analyzing groundwater resources and their geological context in a tropical climate zone: Example of the Katiola region, Côte d’Ivoire: T Coulibal, J Deroin, I Savane

1445h GTR02704L Aster image mapping and spectral characterization of the southwestern portion of the paraña basin basalts, and its relationships with platinum groups elements: D Santos, S Rolim, A Roisenberg, A Freissler, E Ramos, R Salomon, R Frizzo

1500h GTR02705L ASTER satellite imagery and fieldwork/lab spectral measurements as a tool for geological mapping of the Dire Dawa region (southern Afar margin, Ethiopia): L Disparati, R Savlini, M Coltort, A Pizzi, B Abebe, G Pomposo, G Sacchi, L Pontarelli, D Fuirazabadi

1515h GTR02706L Application of airborne geophysical data and remote sensing techniques in iron ore exploration: A Dominguez, M Braqa, T Almeida

1600h GTR02707L Correlation of structural patterns and hydrothermal alteration areas in mineralization zones in San Luis Potosí, México, using GIS and remote sensing techniques: M Torres-Vera

1615h GTR02708L Structural and remote sensing studies of the central Mauritania, region of Bakel, Senegal: J Deroin, S Wade, P Ndiaye, M Diane, A Dia

1630h GTR02709L Remote sensing in investigating the infrared radiation escaping from regional faults, and its geophysical and geochemical components: N Vilor, S Tashchilin, A Kluchevsky, V Demyanovich, A Kuznetsova, O Zarubina, V Rusanov, Y Sharinsky

1645h GTR02710L Geological mapping in the Republic of Yemen using satellite techniques: M Moghalls

1700h GTR02711L Meteosat low resolution data processing for quality control and correction of medium resolution data in geological mapping: R Sinding-Larsen, B Sæther, T Roussein

1715h GTR02712L Use of Service Oriented Architectures and geospatial intelligence methods with multisensors remote sensing data for the environmental monitoring of a petroleum area: T Roussein, N Saporiti, R Kourdian, G Lerouge, K Guérin

GTR02713P Landsat TM and Quickbird images for geological mapping in the Lower Dogali Formation (NE Eritrea): B Antonielli, F Fidolini, G Righini

GTR02714P The application of advanced space-borne thermal emission and reflection (ASTER) radiometer data in the detection of alteration in the Chadormalu paleocraton, Baﬁq region, Central Iran: A Moghtaderi, F Moore, A Mohammadzadeh

GTR02715P How can we use Google Earth® as a GIS platform in Geology? Geological pre-mapping example from Lake District, Isparta, SW Turkey: K Uysal, M Gürmüs, J Nielsen

GTR02716P Tectonics of the Devonian basin of Spitsbergen (Svalbard) in the central-western part of Dicksonland: D Dhont, B Guillaume

GTR02717P Integrating remote sensing and geological fieldwork in the Kuﬁ Basin, Southeast Libya: A Schimanski, M Tischler, T Indreiten, S Higgins, H Bjornseth, H Groeger

GTR02718P Structure of the Metlaoui chain (southern-central Tunisia) from analysis of remote sensing data: M Jabbour, D Dhont, Y Hervouet, E Pajot

GTR02719P Updating the geological map of Kea Island, W. Cyclades, Greece, using remote sensing data and GIS techniques: P Tsomos, K Nikolakopoulos, D Mitropoulos, B Grasemann, C Iglesia, P Petracakis, M Müller, A Rice, K Vout, A Zámolyi, E Dragani

Tuesday 1400h

HPP-05 Evolution of Archean crust – Part 1

1400h HPP05701L Archean greenstone belts: W Bleeker

1415h HPP05702L Synchronous vertical and horizontal tectonism at the late stages of Archean cratonization: Evidence from the northwestern Superior craton: S Lin

1430h HPP05703L The Iusu supracrustal belt (Greenland) – a vestige of a 3.8 Ga suprasubduction zone ophiolite: H Furnes, M Rosing, Y Dilek, M de Wit

1445h HPP05704L Geochemistry of the Tasiusarsuaq ‘greenstone-granite’ belt: H Stendal, A Schersten

1500h HPP05705L Veldlozero-Segozero greenstone belt, central karelia: The oldest mesoarchean

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.
subduction-accretion complex in the Fennoscandian shield: S Svetov
1515h HPS09706L Neoproterozoic strata: S Svetov
1515h HPS09707L Toward Ediacaran subdivision and correlation: Problems and possibilities: J Gehling, M Drosser
1700h HPS09709L Stable isotope chemostratigraphy to correlate Neoproterozoic successions in Scotland and Ireland: N Grassineau, D Lowry

HPS09710P The Cryogenian section in northeastern Svalbard: G Halverson, A Maloof, M Hurtgen

Tuesday 1400h
HY-07 Groundwater flow and water–rock interaction in compact fractured rocks: Storage of nuclear waste, field evidence and mathematical models – Part 1
1400h HYH07001L Site-descriptive modeling of geological repository sites in Sweden: J Selroos
1430h HYH07002L Deformation zones and fracture domains at Forsmark, Sweden: A basis for hydrogeological and hydrogeochemical modelling: M Stephens, A Simeonov
1500h HYH07004L Experiences from large-scale, hydraulic cross-hole tests in the Forsmark area, Sweden: J Leven
1515h HYH07005L Confirmatory large-scale tracer tests at the Forsmark site: P Andersson
1600h HYH07006L The hydrogeochemical modeling approach used within the Swedish site investigation programme: M Laaksoharju, J Smellie, E Tullborg, M Gimeno, J Gomez, L Auque, J Moliner, I Gurban, L Hallbeck, G Buckau, M Gascoyne, B Wallin
1630h HYH07007L Halogens in waters from the new Gotthard rail base tunnel: A tale of water-rock interaction in a fractured basement aquifer: U Seelig, I Stober, K Bucher
1645h HYH07008L Detection of the near-surface redox front in crystalline bedrock, Sweden: H Drake, E Tullborg
1700h HYH07009L Pore water in crystalline rocks as an archive of long-term hydrogeochemical evolution: F Eichinger, N Weber, J Smellie
1715h HYH07010L Temporal chemical instability and space variability of groundwater in granite: T Paces, V Blaha, L Rukavickova

Tuesday 1400h
IEA-05 Geology and cultural heritage – Part 1
1415h IEA050701L Geology and cultural landscape in the Netherlands: H Weeris, H Baas, M Kosian
1430h IEA050702L Multidisciplinary approaches to the investigation of ancient quarries in Egypt: Enhancing our understanding of ancient quarrying in antiquity: E Bloxam
1445h IEA050703L A geological approach to ancient stone quarry landscapes: T Heldal
1500h IEA050704L The Ancient Quarry Landscapes of Egypt: An Outstanding Heritage at Risk: P Storemyr, E Bloxam, T Heldal, A Kelany
1515h IEA050705L The rise and fall of the Selbu millstone quarries: 400 years of stone industry in the wilderness: G Meyer, T Grenne
1600h IEA050706L The use of natural stone in Norwegian architecture: from German influence to a national style: Ø Jansen

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.
1615h IEA05707L Geological interpretation of building materials of the historical Gabala, Sheki region in the ancient Caucasus, Albania: R Mobili
1630h IEA05708L From quarries to monuments; 2000-years of use of Hungarian travertine: Á Tórók
1645h IEA05709L Provenance studies of building materials used at the gothic part of St. Vitus’s Cathedral in Prague: J Valek, A Zeman, P Chotebor, P Mechura
1700h IEA05710L Provenance of ancient stone as seen by Faustino Corsi (1771-1845) and revised in the 21st Century: L Cooke
1715h IEA05711L Groundwater monitoring and modelling from an archaeological perspective: Possibilities and challenges: H de Beer

Tuesday 1400h
MPN-05 Earthquakes, fluids and metamorphism
1400h MPN05701L Keynote lecture: S Braeck
1430h MPN05702L Geology of intermediate-deep earthquakes and the strength of rocks at high confining pressure: T Andersen, H Austrheim, T John, S Medvedev, K Mair, Y Podlachikov
1445h MPN05703L Self-localizing thermal runaway as a mechanism for intermediate and deep earthquakes: Numerical studies and comparison with field observations: S Medvedev, T John, T Andersen, Y Podlachikov, H Austrheim
1500h MPN05704L Frictional melting and deformation in the upper mantle: Constraints from Cr-Al spinel in ultramafic psdodotachylcyte from Balmuccia: K Ozawa, T Ueda, M Obata, G Di Toro, K Kanagawa, H Nagahara
1515h MPN05705L Imprint of earthquakes on the microfabric in mid-crustal rocks – experiment and nature: C Treppmann, B Stoeckhert
1600h MPN05706L Dehydration processes in the subducting slab: A seismological perspective: A Rietbrock
1630h MPN05707L Hydration of the oceanic lithosphere by seismic pumping: H Austrheim
1645h MPN05708L Linking devolitization, earthquakes, and aftershocks: S Miller

Tuesday 1400h
MPV-01 General contributions to volcanology – Part 1
1400h MPV01701L An alternative interpretation of U-Th isochron and estimation of time scale of magma chamber: J Sui, Q Fan
1430h MPV01702L Neogene volcanic and subvolcanic rocks in Central Iran: Geochemistry, Petrogenesis and Tectonomagmatic aspects: R Monsef, M Emami, N Rashidnejad Omran
1445h MPV01703L Petrogenesis of Plio-Pleistocene Volcanic Rocks from the Chagai Arc, Balochistan, Pakistan: R Siddiqui, M Khan, M Jan, M Ogasawara
1500h MPV01704L Minerals thermobarometry of North Sanandaj-Sirjan Zone plutons, W-Iran: S Amini, S Mazhari, F Bea, J Ghalamghash
1515h MPV01705L The bimodal, alkaline-subalkaline Mowene Basalt Formation, Mozambique, records the closure of Karoo magmatism?: A Luttenin, S Vuori
1600h MPV01706L Deccan Trap’s degassing and climate changes during the late Maastrichtian: Insight from the sulfur cycle: C Pellan, A Bartolini, F Baudin, S Gardin, E Humler
1630h MPV01707L Shallow magmatic processes in the Ordovician ocean floor: Juvenile clast morphology and compositional variation in peperite: C Breheny, K Moore
1645h MPV01708L A morphometric and morphological study of cinder cones and their erosion in arid and humid conditions: I Melekestsev, N Zaretskaya, M Gilichinsky, D Melnikov, M Inbar
1700h MPV01709L Hydrogeochemical properties of the thermal sources, Mutnovsky volcano (South Kamchatka, Russia): I Vernikovskyav
1715h MPV01710L Compartimentalisation of the Enni formation, Faroe Islands Basalt Group: constraining eruption episodes, source directions and depocenters: S Passey, D Jolley

Tuesday 1400h
PEM-01 Megacities: going deeper, building safer
1400h Introduction
1415h PEM01701L Planning for sustainable development of the subsurface: B Marker
1430h PEM01702L Geoinformation for subsurface planning – new challenges for geological surveys: H Ildman, K Nenonen
1445h PEM01703L GEOS – geology in the Oslo region – a multidisciplinary mapping project in Norway: Ø Olesen, A Bjørlykke, B Moen
1500h PEM01704L Combining geophysical, sedimentological and geotechnical information in order to characterize construction site at fine-grained waterlain deposit: P Lintinen, A Ojala, H Vanhala, J Palmu, Ø Ikávalko
1600h PEM01705L Georesources and Geohazards at the northern periphery of a future megalopolis: a case study of Belo Horizonte, Brazil: A Büchi, M Hofmann, J Karふnkel, A Hoppe, R Pagung
1615h PEM01706L Gully classification and management in Jos city and environs, Nigeria: F Ugodulunwa, I Laka
1630h PEM01707L Urban geology of Lagos. Part 1: Air pollution: T Davies
1645h PEM01708L Urban geological problems in the largest megacity, Tokyo: T Nakayama, S Kawashima, M Kawai, Y Ogawa
1700h PEM01709L Significance of concealed quaternary faults in the central Tokyo metropolitan area, Japan – A case study of active fault analysis with a borehole database in a highly developed megacity: I Toyokura, T Nakayama, Y Sugiyama, K Shimizu
PEM01710P Mineralogical and ecogeochmical investigation of the street dust from Bucharest, Romania: R Roban, M Secleman, M Popescu, C Roban, L Munteanu

Tuesday 1400h

PIP-04 From gas and dust to planets
1400h PIP04701L Two stage mechanism of planet formation: V Anfiologov, Y Khachay
1415h PIP04702L Dating the formation of CAIs and chondrules – evidence from Hf-W chronometry: T Kleime, C Burkhart, B Boudon
1445h PIP04703L The effect of Ni and S on partitioning of O between magnesiowüstite and metallic Fe liquid at high pressures: K Tsuno, D Frost, R David
1500h PIP04704L Assessing equilibrium core formation in Earth: Model solutions involving W, Ni and Co: M Walter, E Cottrell
PIP04705P Single body breakup origin of the solar system: Its implications for early earth interpretive geology: F Lee

PIP04706P Investigation of the planetary material microsamples: Methods and means: G Kolesov, A Lyul’

PIP04707P The incorporation of hydrogen, carbon and nitrogen in the reduced magma ocean: A Kadik, Y Litvin

PIP04708P Data on EET90299 chondrule from Micro X-Ray Diffraction (μXRD): N Melone, P Manzari, E Scandale

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium's oral presentations.

The 33rd International Geological Congress, Oslo 2008
Tuesday 12 August – Late Afternoon

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The following symposia begin in this session. Some symposia continue on the next day. Next day presentations may be found in the next day section.

### Tuesday 1600h
**GCC-02 Contribution of geochemistry to the study of the Planet: Today and tomorrow – Part 1**
- **1600h GCC02801L** Stable isotope geochemistry – past and present: **J Hoesf**
- **1630h GCC02802L** New directions in the stable isotope geochemistry of the metallic elements: **T Bullen**
- **1700h GCC02803L** Rapid analysis, identification, and discrimination of geoteamals by laser-induced breakdown spectroscopy: **R Harmon, J Remus, N Mcmillan, C McManus, L Collins, F DeLucia, J Gottfried, A Miziolek**

### Tuesday 1600h
**IEI-09 Spatial data infrastructures and strategies for geoscience information**
- **1600h IEI09701L** eEarth and eWater: the European multilingual geological and hydrogeological information systems: **A Tchistiakov**
- **1615h IEI09702L** Towards a shared environmental information system (SEIS) for Europe: The case for geology: **P Christmann, F Robida**
- **1630h IEI09703L** The geodata policy of the Swiss geological survey: **A Kühni**
- **1645h IEI09704L** Sensornetworks as basis for the national information infrastructure: **J Jellem**
- **1700h IEI09705L** The new EC Directive INSPIRE: Friend or foe?: **K Asch**
- **1745h IEI09706L** Optimization of information resources as a method of increasing effectiveness of depth’s geological delivery: **E Yuon**

### Tuesday 1600h
**MGH-01 Earth and health – medical geology – Part 1**
- **1600h MGH01701L** Why does knowledge remain unused in medicine? On ideological and conceptual barriers for exchange of knowledge between medicine and other sciences: **G Braut, G Braut**
- **1630h MGH01702L** Earth sciences and public health: **H Skinner**
- **1700h MGH01703L** Factors controlling Iodine Deficiency Disorder (IDD) incident in communities living within volcanic landscape: **A Harijoko, I Warmada, T Sudargo, E Huriati, D Widagdo, K Watanabe**
- **1715h MGH01704L** Zinc deficiency in soils, crops and food intake in central Mali: **G Jacks, C Gardestedt, M Plea, B Jacks**

### Tuesday 1600h
**PIP-06 Origin and evolution of the Moon**
- **1600h PIP06701L** Terrestrial planet formation, giant impacts and the origin of the Moon: **W Benz**
- **1630h PIP06702L** The Kaguya(SELENE)mission: Present status and preliminary results of science: **M Kato, Y Takizawa, S Sasaki**
- **1645h PIP06703L** Kaguya mission to explore crustal asymmetry of the moon: **T Arai, H Takeda, M Ohtake**
- **1700h PIP06704L** Survey of volatiles and phyllosilicates by Kaguya(Selene) / Spectral Profiler: **R Nakamura**
- **1715h PIP06705L** Geologic interpretation of the lunar maria by Lunar Radar Sounder (LRS) onboard Kaguya (SELENE): **Y Yamaguchi, A Yamaji, T Ono, A Kumamoto, S Oshigami, H Nakagawa, T Kobayashi, Y Kasahara, T Watanabe, K Mochizuki, S Watanabe**

**PIP06706P** Products of late-stage igneous crystallization in lunar meteorites: Do pegmatites exist on the Moon?: **T Fagan**

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Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.

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Tuesday 12 August – Posters

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The following symposia contain only poster presentations.

Tuesday 0800h–1900h
EGG-03 Geological aspects of radon risk mapping, 9th symposium (GARRM 9)
EGG03737P A multidiscipline measurement on Finnish esker sediment: Test for exact radon source identification: D Breitner, T Turtiainen, H Arvela, P Vesterbacka, B Johanson, M Lehtonen, K Hellmuth, C Szabó
EGG03738P Causes of space-time fluctuations of soil radon flux density: P Mildyaev, T Petrova
EGG03740P Transfer factor and ineffective measures against radon: M Jiránek, M Nenzl, M Nenzl
EGG03741P Radon potential mapping in Hong Kong: S Tung
EGG03743P Elevated radon levels in a building in a Divaêa, Karst region of Slovenia: P Zvab, J Vaupotic, T Dolenc
EGG03744P Areas of radon water occurrence in the polish part of the sudetic mts (SW Poland): T Przylibski, A Adamczyk-Lorenc
EGG03745P Radon in soil gas concentration and relation with indoor radon distribution: C Giovanni, M Garavaglia, P Di Marco, E Scruzzi
EGG03746P Radiogenic characteristics of rock environment in show caves: L Thinova, P Otahal, K Rovenska
EGG03747P Measuring radon in water, air and soil gas by absorption in polycarbonates: D Pressyanov, S Georgiev, K Mitye, I Dimitrova
EGG03748P Mapping of the geogenic radon potential in France to improve radon risk management: Methodology and first application to region Bourgogne: G Irlsch
EGG03749P Radon risk maps in Portugal: Some geological constraints: A Pereira, L Neves
EGG03750P Radon risk in the urban area of Vila Real (Northern Portugal): M Gomes, L Neves, F Coelho, A Carvalho, M Sousa, A Pereira
EGG03751P Monitoring of radon levels on a national territory for an important bank group: P Urso, M Ronchin, G Colloca, A Izzo, D Russignaga, P Carre

Tuesday 0800h–1900h
EUR-13 Neogene of NW Europe: Palaeoclimate, tectonics and sedimentation
EUR13713P A new Neogene dinoflagellate cyst stratigraphy for the eastern north sea Basin: K Dybkjaer, S Plaier
EUR13714P Analysing the Cenozoic depositional record: A key to understanding the erosional history of Western Scandinavia: B Goledowski, O Clausen, S Nielsen
EUR13715P Application of palynology in mapping Miocene aquifers in Jylland, Denmark: K Dybkjaer, S Plaier, E Rasmussen
EUR13716P Glacial evolution of the Norwegian shelf during Late Pliocene/Pleistocene on the basis of seismic mapping: D Ottesen, L Rise, E Andersen
EUR13717P Incision of the Albanian terraces: Tectonic and climatic implications: J Mugnier, R Koci, J Carcaillet, F Jouanne
EUR13718P Morphological elements of a modern turbidite system: J Laberg, H Johannessen, T Vorren, M Ivanov, N Kenyon
EUR13719P Sandy turbidites in the Andoya Canyon – Lofoten Basin Channel system, Norwegian Sea: H Johannessen, J Laberg, M Forwick, T Vorren, H Haflidason

Wednesday 0800h–1900h
EUR-18 Palaeogeographic and palaeotectonic development of the Mediterranean and Middle East regions
EUR18721P Seismotectonic analysis of Babors external zones of Tellian chain eastern of Algeria: The Intra baborian strike slip suspected activefault: S Aourari
EUR18722P New data on pre-Alpine tectonics in the Malaguide Complex (Betic Cordillera): A Martin-Algarra, S Mazzoli, V Perrone, R Rodriguez-Cañero, P Navas-Parajo
EUR18723P Late and post-Variscan palaeogeographic and tectonic evolution of the ALCAPA-region: F Ebner, A Vozárová, J Vozár, S Kovács
EUR18724P Seabed tectonic features across the Calabrian Arc accretionary prism: S Ceramicola, D Praeg, J Mascle, L Loncke, D Accettella, N Wardell
EUR18725P Time-space evolution of the Calabrian accretionary wedge: Insights from seismic reflection profiles: L Minelli, C Facchena, P Casero
EUR18726P Post – Burdigalian thermal signature in the Peloritani Mountains: V Olivetti, M Balestrieri, F Stuart, C Facchena
EUR18727P Neogene geodynamics of the Balkan fold-thrust belt: R Nakov
EUR18729P Subduction and rift-related sequences of Paleozoic-Triassic ages in Greece: New stratigraphic correlations: E Champod, G Stampfl
EUR18730P Paleomagnetic study of upper cretaceous – lower tertiary rocks at the ne part of Iraq: B Hijab, E Baban, E Al Kharssan

EUR18731P Halotectonic unstability and gravity potential-enhanced deformation in the NE-corner of Mediterranean: T Mustafa, V Ediger, G Evans


Tuesday 0800h–1900h
GET-02 Nature of geothermal systems based on geophysical, geochemical, petrologic and tectonic studies

GET02716P Contribution to the Geothermal model of the Azufal Volcano from alteration zones: J Molano, C Alfaro, D Carvajal, D Romero, J Mojica

GET02717P Water geochemistry of the Sabalan geothermal field, northwest of Iran: M Vanaei, A Maghsoodi, A Saeedi

GET02718P Express technology of geoelectric investigation for exploring mineral water deposits: M Yakymchuk, S Levashov, I Korchagin, D Bozhezha

GET02719P Paranaese thermal system in the Northeast of Argentime: A Pesce

GET02720P A multidisciplinary approach to understand resistivity reductions observed at Traveal geothermal field: G Gianelli, C Giolito, A Manzella, G Ruggeri

GET02721P Geothermal Rifts (2) – The direct heat challenge: X Wang, J Wellmann, K Regenauer-Lieb, H Chua, F Horowitz

GET02722P Hydrodynamic framework of Saharan Triassic aquifers in south Tunisia and Algeria: B Chulli, M Bedir

HYH01735P A geostatistical approach to water quality spatial analysis at municipal level: M Garcia-Soldado, M Chica-Olmo, J Luque-Espinar, V Rodriguez-Galiano

HYH01736P Chemical state of the subsurface water body in Szigetköz (Danube river, Hungary) and recharging efforts: P Scharek, P Liebe, G Don

HYH01737P Climatic cycles in aquifers across Spain: J Luque-Espinar, F Pardo-Igüüziquiza, M Chica-Olmo, M Garcia-Soldado

HYH01738P Cryptosporidium and Giardia in groundwater from Norwegian crystalline bedrock wells – a small study: S Gaut, L Robertson, B Gjerde, A Dagestad, B Bratlil

HYH01739P Environmental aspects in ethanol production related to vinasse disposal and groundwater: S Yoshinaga Pereira, P Pereira

HYH01740P Evaluation of the sensitivity of the ground with erosion using the teledetection and the GIS: Case of the catchment area of the Sro River middle atlas, Morocco: M Zahraoui, E Khadija, M El Wartiti, M Rouchdi, D Fadli

HYH01741P Exploring the relationships between flow duration curves and the surface geology of watersheds: Y Yokoo

HYH01742P Geochemical appraisal of fluoride contamination of groundwater of river Sindhanur sub-basin, Koppal and Raichur districts, Karnataka: T Lakkundi

HYH01743P Geochemical study of groundwater draining into a large-scale tunnel, NE Japan: Sources and style of migration of water infiltrating underground in a humid temperate climate region: H Kawaraya, D Ishiyama, O Matsubaya

HYH01744P Ground-water remediation using in situ redox manipulation: Preliminary study of model-based evaluation of controlled-release system: Y Kim, E Lee, G Liu, F Schwartz, M Ibaraki

HYH01745P Historical flood chronology and hydrological risk in coastal areas (Amalfi, Italy): E Esposito, S Porfido, C Violante, F Molisso

HYH01746P Hydrogeological and geochemical investigation of a multi-source aquifer system: S Grassi, M Amadori, G Corteci, M Doveri

HYH01747P Hydrogeological characteristics of the southern part in Japan: T Kishii

HYH01748P Hydrogeological structure of unconsolidated layered sediments deposited in the lift zone of the Boso peninsula, Japan: M Ishibashi, H Takahata, T Hiyama, H Fujita, H Yoshida, N Nirei

HYH01749P Hydrogeological substantiation of industrial sewage land disposal in Kazakhstan area: D Kasimbekov, D Kalitov, V Zavaley, L Kalitova

HYH01750P Hydrogeological zonation of the territory of Kazakhstan (methodic principles and zonation scheme): T Aituarov, D Kassymbekov, D Kalitov

HYH01751P Hydrogeological, hydrogeochemical and isothe geochemical features of the groundwater systems in Isparta and environs, SW Turkey: S Demer, N Özgür
HYH01752P Influence of climatic variations on the groundwater of mountain areas: The cases of Mount Cucco and Gualdo Mountains (central Apennines): L Di Matteo, C Cambi, R Checcucci, W Dragoni, D Valigi

HYH01753P Interpretation of a pumping test conducted in the mixing zone between a thermal aquifer and a surface aquifer using physico-chemical parameters monitoring: J Josnin, S Gaillo

HYH01754P Long-term changes of hydrogeological and hydrological conditions in the Ob river basin (western Siberia): V Lgotin, O Savichev, T Tomskgeo monitoring

HYH01755P Management of complex aquifers in times of climatic change: The case of the volcanic Vulcino aquifer (central Italy): L Di Matteo, W Dragoni, C Giontella, F Lotti

HYH01756P Numerical models as a tool of quantitative and qualitative groundwater basin management: K Fujisaki

HYH01757P Qualitative and quantitative status of the shallow aquifer from the S and SW Romania: R Macalet, D Dragusin, M Radescu, I Stanescu, C Cazacu

HYH01758P Regional-scale prediction of hydrological indexes in ungauged basins with low-permeability sedimentary rocks: F Cervi, L Borgatti, A Corsini, F Ronchetti

HYH01759P Role of the state monitoring system of underground waters in the assessment of geoeconomic situation of the Caspian area (Atryau region, Kazakhstan): N Saburova, Z Kadyrgaliyeva, V Chshen, V Zavaley

HYH01760P State of surface water network in the Balan mining area: L Robu, I Robu

HYH01761P Traditional devices of rain water harvesting for the artificial recharge of the ground water in the great Thar Desert of India: S Trivedi, B Paliwal, M Khilnani

HYH01762P Uncertainties in risk assessment of polluted sites; The effect of soil heterogeneity on transport of contaminants: A Kuusela-Lahtinen, E Laine, P Vahanne

HYH01763P Ground water flow modeling for the town of Beaufort West: O Nhleko

Tuesday 0800h–1900h

IEA-05 Geology and cultural heritage

IEA05816P Al-Hajar al-Aswad (The Holy Black Stone): P Habibullah, A Rashid

IEA05817P Characteristics and sources of the dimension stone used on significant historic buildings and monuments in Slovakia: R Holzer, M Laho, M Bednariak, V Greif

IEA05818P Conglomerates of Lombardy (Italy): Characters and architectural use: R Bugini, L Folli

IEA05819P Dimension stones of Buda castle (Budapest, Hungary), differential weathering and durability: A Török, J Bauer, C Schneider, J Ziesch

IEA05821P Geology in urban setting: A Almeida

IEA05823P Innovative experiences of cultural and environmental mapping along the kasbah road on the Saharan side of the High Atlas (South-eastern Morocco): F Di Gregorio, M Melis, D Fadli, M Zarhaoui, M Wartiti

IEA05824P Origin of the rock of the Santa Ma del Naranco’s vault (Asturian pre-romanesque): G Beatriz, M Celia, M Eduardo

IEA05825P Petrographical characterization, weathering susceptibility and supply assessment of historical building sandstone from ancient quarry region in NE Slovenia: S Kramar

IEA05826P Poems, monuments and overflows tell history of Roman river auser, now Serchio: G Finzi Contini

IEA05827P Stone decay in granitic buildings: One example of the role of geology in cultural heritage: A Almeida, A Begonha

IEA05828P Stone materials’ archives: the case study of the Riminaldi’s Lithotheque in Ferrara, Italy: E Marrocchino, M Gulinelli, E Bonatti, C Vaccaro

IEA05829P The Sagalassos quarry landscape: Bringing ancient quarries in context: P Degryse

IEA05830P The system of protected geological objects in the Kom republic (the Russian Federation): M Tarbaev, A Borovinskikh, K Khoroshkeev, E Izurov, I Burtsev, P Yuktanov

IEA05831P Geological monuments geosites and cultural heritage of India: Conservation:

Tuesday 0800h–1900h

IEI-09 Spatial data infrastructures and strategies for geoscience information

IEI09707P Principles of operation and the architecture of distributed information environment by the example of the Geology portal and GeoMETA system integration: V Ryakhovskii, V Serebyakov, A Vershinin, L Din, I Diakonov, A Shkotin

IEI09708P A geoinformation system used for support of exploration work for precious and base metals: V Kuznetsov, E Ivanenkova, S Yelshina, M Ushakov, A Vakhrushev

IEI09709P Development of internet web service providing borehole data, Kunijiban: T Kurahashi, Y Sasaki, T Inazaki

The 33rd International Geological Congress, Oslo 2008
Tuesday 0800h–1900h
MGH-01 Earth and health – medical geology

MGH01829P Mercury in urban ecosystem as a risk factor: L Sahakyan, A Saghatelian, S Arevshatyan

MGH01830P Ecogeochronological factors and diseases of a thyroid gland of the population in Tomsk region: O Denisova, G Chernogorjuk, L Rikhvanov, N Baranovskaja

MGH01832P Medical and mineralogical aspects of the study of flints: I Volfson, I Pechenkin, G Sidorenko, G Zenova, E Shelekhova

MGH01833P Diatoms from volcanic mud samples: Preliminary studies for Petolithrapy application: A Quintela, S Almeida, F Rocha, E Ferreira da Silva, V Forjaz, D Terroso

MGH01834P Measuring and quantifying the mineral-induced formation of reactive oxygen species: C Cohn, A Norgaard, S Loft, K Jensen


MGH01836P Impairment of the environment from industrialization: D Karageorgiou, C Karageorgiou

Tuesday 0800h–1900h
MPV-01 General contributions to volcanology

MPV01714P Fluids in Andean basaltic magmas: Two basalt types from the Yate volcanic complex, southern Volcanic Andes, Chile: M Mella, J Muñoz, M Hollanda


MPV 01716P Morphological analysis of Quaternary cinder cones, Jeju volcanic island, Korea: J Koh, S Yon, J Lee

MPV 01717P The relative effects of volcanic and anthropogenic emissions on acid deposition and direct shortwave radiative forcing over Indonesia: M Pfeiffer, E Marmer

MPV 01718P Structure and stratigraphy of the Dannemora iron deposit, south central Sweden: P Dahlin, H Sjöström

MPV 01719P Very high-Fe fayalite in k-trachytes: Preliminary data from recent Volcanic rocks of Mt. Melbourne volcanic complex, McMurdo Volcanic group, North Victoria land (Antarctica): F Lucci, V Runci, D Cozzupoli, G Giordano, D Phillips

MPV01720P Volcanic history and petrogenesis of the Cumaxavasý volcanics, West-Central Anatolia, Turkey: Z Karacık, P Genç, F Gülmez

MPV01721P Volcanic characteristics of Kueishaotao, northeast Taiwan, and their implications: S Song, C Chiu, S Tsao, W Lo, Y Hsieh, C Chen

MPV01722P Quaternary neo-ore formation of North Tien Shan and Dzungarian Alatau: L Didenko-Kisilitsyna

MPV01723P Pillow lavas of Hruskovec quarry, Kalnik Mt., NW Croatia: An evidence of the advanced rifting stage in the Tethyan domain: L Palinkas, V Bermanec, S Strmic Palinkas, T Kolar-Jurkovsek, G Kniewald, F Molnar

MPV01724P Magmatic melts evolution at Gorely volcano (Southern Kamchatka): M Gavrilenko, A Ozerov, P Kyle, J Eichelberger

MPV 01725P The peculiarities of elastic properties in modern basalts: V Ladygin, Y Frolova, Y Yarmoluck, A Minin

MPV01726P Komatiite and mud volcanism in Cenozoic of Ili Intermountain Depression: Y Kazakova

MPV01727P Petrogenesis of collision-related, calcalkaline Ilica (Erzurum) volcanites, NE-Turkey: Its relation to the tectonic and geothermal systems: A Kaygusuz, Z Aslan, E Aydincakir, M Gucer, K Kaygusuz

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Wednesday 13 August – Early Morning

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The following symposia begin in this session. Some symposia continue on the next day. Next day presentations may be found in the next day section.

Wednesday 0830h
AAA-08 Permafrost on a warming planet
0830h AAA08801L The state of permafrost during the International Year of Planet Earth: J Brown, V Romanovsky, H Christiansen
0900h AAA08802L Soil organic carbon pools in permafrost regions: P Kuhry, C Tarnocai, P Canadell, A Jones, T Schuur
0930h AAA08803L Warming permafrost in Scandinavia and Svalbard: K Isaksen, J Sollid, P Holmlund, C Harris
0945h AAA08804L Regional changes of permafrost in Central Asia: L Zhao
1030h AAA08805L Mapping and modelling the distribution of permafrost in the Nordic Countries: B Etzelmüller, H Christiansen, O Humlum, H Farbrot, H Juliussen, K Isaksen, T Schuler, R Oeodegaard
1100h AAA08806L Meteorological controls on interannual variations in active layer thickness and ground temperature in Svalbard: H Christiansen, O Humlum
1115h AAA08807L Svalbard global seal vault – An application of the permafrost in Svalbard: S Barlindhau ga
1130h AAA08808L PYRN-TSP: Permafrost young researchers network’s contribution to the thermal state of permafrost project in the Nordic Countries: H Juliussen, M Johansson, J Hjort, K Isaksen
1145h AAA08809L Towards a ground surface temperature map of Northern Norway: H Farbrot, B Etzelmüller, K Isaksen, T Schuler, O Tveito, H Christiansen
1400h AAA08810L Evolution and current state of subsea permafrost and the zone of gas-hydrate stability in rifts on the Arctic shelf of eastern Siberia: H Hubberten, N Romanovskii, G Cherkashov
1430h AAA08811L Subsea permafrost in the siberian Arctic: H Kassens, H Bauch, P Rekant, V Spiess, T Schwenk, J Thiede
1445h AAA08812L Quantification of dead-ice melting in ice-cored moraines at the high-Arctic glacier Holmströmbsreen, Svalbard: A Schomacker, K Kjaer
1500h AAA08813L Norperm – the norwegian permafrost database: K Midttonnde, H Juliussen, G Strand, H Christiansen
1530h AAA08814L Russian experience of engineering design in permafrost area: G Perhslein
AAA08815P State and fate of permafrost on a changing planet: V Romanovsky, J Brown, A Kholodov, S Marchenko, S Smith
AAA08816P Recent changes in the thermal state of European permafrost: C Harris, K Isaksen

AAA08817P Total storage and landscape distribution of soil organic carbon in discontinuous and continuous permafrost terrain: P Kuhry, G Hugelius
AAA08819P PYRN-Permafrost young researchers network: Education and outreach for the international polar year and beyond: H Juliussen, H Lantuit, M Johansson, O Frauenfeld
AAA08820P Monitoring of glacial landforms in Western Tien Shan using RS GIS: Y Sidorova

Wednesday 0830h
AAB-02 Cenozoic bi-polar connections over millennia
0830h AAB02801L A dynamic Cenozoic Arctic Ocean: K Moran, J Backman, L Mayer
0845h AAB02802L The ACEX siliceous microfossils: Middle Eocene biogenic silica production and preservation in the central Arctic: C Stickley, N Koc, A Kemp, R Pearce
0900h AAB02803L Cenozoic Climate History: an Arctic-Antarctic comparison from direct archives: F Sangiorgi, H Brinkhuis, S Schouten, G Reichart, J Sinninghe Damstè, F Florindo, D Harwood
0915h AAB02804L Clay mineral assemblages of the bottom sediments from the Arctic ocean as an indicators of paleoclimate changes during Cenozoic time (IODP Leg 302 data): V Krupskaya, A Krylov, C Vogt, A Nechityalo, D Borisov, I Andreeva, G Ployan
0930h AAB02805L Rethinking the physical evidence for Arctic warm periods: When do trees, sea ice, and ice sheets make sense?: J Brigham-Grette
1030h AAB02806L Plio-pleistocene antarctic climate from Andril’s McMurdo ice shelf site and implications for bi-polar climate linkage: R Powell, T Naish, M ANDRILL
1045h AAB02807L The polar paleoclimate signature of Marine Isotope Stage 31: Early Pleistocene codebreaker or red herring?: R Scherer
1100h AAB02808L The physical properties record of the ANDRILL Mc Murdo Ice Shelf (MIS) core: L Hinnov, F Niessen, D Magens, L Krissel, G Wilson, R Powell, T Naish
1130h AAB02810L Testing the use of extant arctic marine palynomorphs as analogs in interpreting ancient antarctic climates: M Hannah
1145h AAB02811L A Holocene bipolar seesaw effect in the South Atlantic?: K Ljung, S Björck
AAB02812P Biomarkers from Unique oil shows of Lake Baikal (Russia): V Kashirtev, A Kontorovich, V Moskvin

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.

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AAB02813P Paleooceanography of the Eocene Arctic Basin through Nd-Sr isotope study of fossil fish debris: J Gleason, D Thomas, T Moore, J Blum, R Owen, B Haley

Wednesday 0830h
CGG-09 Glacial-interglacial vegetation dynamics
0845h CGG09801L Glacial – interglacial vegetation dynamics and their relevance to understanding ecosystem resilience, variability and thresholds in a changing climate: K Willis, J Birks

0915h CGG09802L Weichselian vegetation dynamics in the central area of the Scandinavian glaciations recorded in a long sediment sequence from Sokli (N-Finland): K Helmens, H Seppa, H Bos, S Engels, M Valiranta, J Birks

0945h CGG09803L Early-Weichselian botanical features in Finnish Lapland: M Valiranta, H Birks, S Engels, K Helmens

1030h CGG09804L A continuous Early Weichselian lake record covering the Brorup and Oderdrade chronos at Björkö on the coast of Ostrobothnia, Western Finland: J Auri, M Räsänen, A Klap, K Nenonen

1045h CGG09805L Modern pollen-climate calibration models for northern and eastern Europe: H Seppä, H Birks, J Salonen

1100h CGG09806L Formation of peat layers in Estonia from the Holocene till now: M Örru

CGC09807P Middle Pleistocene climate and vegetation changes in Japan: M Hongo, T Naya

1130h CGG03808L Late Cenozoic development history of the arctic seas sedimentary cover: G Tarasov

1145h CGG03809L Paleo-glaciation in eastern Shandong hilly regions and its impact on sedimentary environment of continental shelf: X Xu, P Li, H Yu, N Li

1400h CGG03810L Importance of glacial regime and dynamics to glacial erosion and deposition: Questions from the marine realm: R Powell

1430h CGG03811L Lithological analysis in different size fractions of till: S Tafesse, J Fernlund, M Arvidson

1445h CGG03812L The role of glaciohydraulic supercooling in the formation of stratified facies basal ice: S Cook, Z Robinson, I Fairchild, P Knight, R Waller, I Boomer

1500h CGG03813L Unusual debris transport in temperate Icelandic glaciers with terminal overdeepenings: D Graham, D Swift, N Midgley, S Cook

1515h CGG03814L Cycles of sediment remobilisation at the Bødalsbreen glacier: V Burki, E Larsen, O Fredin, A Nesje

CGG03815P Mineral formations generated by Quaternary glaciation in Carboniferous limestones and dolomites of Russian platform: E Spiridonov, L Panasian, M Chernov, V Sokolov, D Yanakieva, V Ladygin, T Abramova

CGG03816P Debris transport and deposition in ice marginal delta: P Sinkunas, A Jurgaitis, E Sinkune

CGG03817P The influence of surface debris cover on the genesis of sediment-landform assemblages at temperate, alpine glacier margins: N Glasser, P Powis

CGG03818P High-resolution 3D images of glaciotectonic forms on the Norwegian continental shelf: L Rise, D Ottesen, M Dolan

CGG03819P Ordovician ice stream glacial lansystem: J Buoncristiani, M Guiraud, M Denis, G Desaubliaux

CGG03820P The recognition of glaciohydraulic supercooling in ice-marginal sediments: S Cook, D Graham, D Swift, N Midgley

Wednesday 0845h
EGG-03 Geological aspects of radon risk mapping, 9th symposium (GARM 9) – Part 2

0845h Introduction

0900h EGG03820L Simultaneous monitoring of $^{222}$Rn and CO$_2$ in soil air under a cool-temperate deciduous stand: R Fujiyoshi, Y Haraki, H Kikuma, T Sumiyoshi, H Amano, I Kobal, J Vaupotic

0915h EGG03821L Radon in soil gas – investigation and data standardization at radon reference sites, Czech Republic: M Matolin

0930h EGG03822L Modification of the radon concentration field in the soil by placing a house into the soil profile: M Jiránek

0945h EGG03823L New experimental device for a continuous soil gas radon variations monitoring: A Froňka, L Moučka, K Rovenská

1030h EGG03824L Peculiarities of Rn behaviour in soil air: V Petersell, Täht-Kok

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium's oral presentations.
1045h EGG03825L Application of geophysical methods for the support of radon mapping: M Wysocka, A Kotyba

1100h EGG03827L The level of radon exhalation rate from soil in some sedimentary and granite areas in China: N Wang, L Xiao, W Mei

1115h EGG03828L A statistical evaluation of the geogenic controls on indoor radon concentrations and radon risk: D Appleton, J Miles, B Rawlins, C Scheib, M Green, I Chell, I Hall, R Larmour

1130h EGG03829L The influence of geological bedrock on the soil gas and indoor radon concentrations measured on Quaternary sediments – first statistical approach: P Pacherová, I Barnet

1400h EGG03830L Uncertainties in radon maps: J Miles, D Appleton, C Scheib

1415h EGG03831L Spatial analysis of radon concentrations at very short scales I: Indoor radon concentration as a spatial random field: P Bossew, G Dubois, T Tollefsen, M De Cort

1430h EGG03832L Spatial analysis of radon concentrations at very short scales II: A comparative study of regional surveys: D Gregoire, P Bossew, T Tore

1445h EGG03833L Machine learning regional classification of indoor radon data: R Tapia, M Kanevski, A Pozdnoukhov, V Timonin

1500h EGG03834L Radon potential and areas of radon water occurrence in the Sudetic Mts (SW Poland): T Przylibski, A Adamczyk-Lorenc, S Wolkowicz

1515h EGG03835L Naturally occurring radioactive elements in drinking water from private wells: B Ek, B Thunholm, I Østergren, R Falk, L Mjones

1600h EGG03836L Prediction of radon gas in tap water from crystalline bedrock: B Olofsson, K Skeppström

1630h Geological Aspects of Radon Risk Mapping discussion

Wednesday 0830h
EME-02 Role of geoscience in governance for sustainable development and human security

0830h EME02801L Communicating environmental geoscience – Australian communication pathways: C Simpson

0900h EME02802L Geoscience for sustainable future in east and southeast Asia – the role of CCOP: H Chun

0915h EME02803L Mainstreaming geoscience for sustainable development – the Malaysian experience: R Yunus, J Pereira

0930h EME02804L Experiences of the BGS in capacity building and development projects: D Ovadia

0945h EME02805L Geoscience for sustainable development in China: H Dr. Zhang, S Jiang

1030h EME02806L Geoscience for sustainable development – the experience of Finland: P Lintinen, J Jarva, Å Kuivamäki, O Sallasmaa

1045h EME02807L Role of geological survey of Japan in the society: E Tsukuda

1100h EME02808L Geoscience for a Sustainable Earth, a perspective from France: C Truffert, J Varet

1115h EME02809L Urban geological survey in China: G Cheng, G Zhai, Y Zhuang, X Cai

1130h EME02810L Mitigation of georisks – a contribution of geosciences to good governance in Indonesia: V Steinbach, D Wirakusuma, A Hoffmann-Rothe, U Ranke

1145h EME02811L Preliminary selection of new touristic & investment locations in Yemen, using remote sensing techniques: I Al-Ganad, Z Al-Jawadi

1400h EME02812L The evolution of geoparks as a policy tool for sustainable development: W EDER

1430h EME02813L Promoting Geo-science based policy and decision making: perspective from India: H Gupta

1445h EME02814L Advancing geosciences in public policy – A perspective on the role of scientific organisations from the geological society of London: P Styles

1500h EME02815L Community service by geoscientists – The USA experience: G Heiken

1515h EME02816L Geoscience education for sustainable development: C King, P Kennett, E Devon

1600h EME02817L Barriers to the use of geoscience information in governance: B Marker

1630h EME02818L Promoting geoscience-based policy and decision-making – The EuroGeoSurveys perspective: P Christmann, M Klonowski

1645h EME02819L Geoscientific information and environmental management – case of Lithuania in European context: J Satkunas

1700h EME02820L CCOP: The role of an inter-governmental geoscience organisation in facilitating regional development assistance: A Reedman

EME02821P Development Assistance to CCOP: Impact on the development of the oil and gas sector in the region: H Nguyen

EME02822P Sustainable development and Chinese geological work of 21st century: J Ye, J Ju, J Zhang, J Yang, Z Du

EME02823P Land subsidence at semarang, Indonesia causes and some aspects to the future: D Wirakusumah, D Murdohardono, F Kuehn

EME02824P The national atlas of the republic of Kazakhstan – cartographic foundation sustainable development: F Akiyanova, A Medeu

EME02825P Hydrogeological background and environment pollution suggest a car bypass under an historical river crossing a medieval town stranded by car traffic: G Finzi Conti

EME02826P Active faults of Greece and surroundings: S Pavlides, A Chatzipetros, S Valkaniotis

EME02827P Neotectonic evidence from focal mechanisms at the Adria-Europe boundary: A Viganò, G Bressan, G Ranalli, S Martin

EME02829P Mineralogical and chemical characterization of the auriferous tailings deposits of the Cuevaloca and retiro mine, Valle del Cauca, Colombia: J Molano, J Cervera, G Prieto, G Neira

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.
EME02830P Environmental and human impact of uranium and polymetallic mining wastes in central Asia: D Aitmatova
EME02831P Resolving minerals extraction and conservation tensions in a small country: B Marker
EME02832P Biodiversity, mining and sustainability – Increased understanding and developments 2000-2008: C Simpson

Wednesday 0830h
EUR-13 Neogene of NW Europe: Palaeoclimate, tectonics and sedimentation – Part 2
0830h EURL18309L The early to middle Miocene tectonic phase in the NE Atlantic: E Lundin, A Doré, S Henriksen
0900h EURL18310L Compression and unconformity formation in the NE Atlantic passive continental margin: A Tuit, J Underhill, D Ritchie, H Johnson, H Ken, R Scrutton
0915h EURL18311L An Early Pliocene tectonic episode on the NW European passive continental margin: D Praeg, M Stoker, P Shannon
0930h EURL18312L Late Cenozoic paleoenvironment of the south-western Barents Sea continental margin: J Laberg, K Andreassen, J Knies, T Vorren, M Winsborrow

Wednesday 0830h
EURL18 Palaeogeographic and palaeotectonic development of the Mediterranean and Middle East regions – Part 2
0830h EURL18011L Toward a model of tectonic evolution of the Middle-East since Mesozoic: E Barrier, B Vrielynck, M Brunet, F Bergerat, M Soisson
0900h EURL18012L The Phanerozoic vertical motions of the Middle East and North Africa: Indicators of the mechanisms driving undulations of continental platforms: Z Garfunkel
0915h EURL18013L Reactivation of the Levant passive margin and the reshaping of the continental-oceanic transition during the Late Tertiary: Z Gvirtzman, O Bar, J Steinberg, E Zilberberg, S Feinstein, Y Folkman
0930h EURL18014L Preliminary results of a crustal seismic profile across Sicily (Italy): R Catalano, A Sulli, F Acaico, R Nicolicl, F Pepe, M Giustiniani, V Valenti, G Avellone, L Basilone, M Piero
0945h EURL18015L Structural setting in the central Sicily FTB as a premises for hydrocarbon exploration: R Catalano, V Gatti, G Avellone, L Basilone, A Frixa, A Sulli, G Lena
1030h EURL18016L Integrated stratigraphic, structural, morphotectonic and thermochronometric constraints on the Neogene-Quaternary tectonic evolution of the southern Apennines-Calabrian arc system: S Mazzoli, L Aldega, A Ascione, S Corrado, M D’Errico, A Iannace, C Invernizzi, A Pignalosa, S Vitale, M Zattin
1045h EURL18017L The building of the Betic-Rif orogen and the geodynamics of western Mediterranean: Constraints from the tectonic and metamorphic evolution of the Alboran Domain and the External Rif: F Negro, P Agard, B Goñi, L Jolivet, G Rimmelé, J Azañón, O Saddiqi
1115h EUR18819L Subduction-related structures and geodynamic evolution of SE Sicily-Calabria offshore: V Valentì, A Sullì, R Catalano
1130h EUR18820L Evolution of ras En-Naqb escarpment in southwest Jordan: M Al-Shumaimri

Wednesday 0830h
GCC-02 Contribution of geochemistry to the study of the Planet: Today and tomorrow – Part 2
0830h GCC0204L Microbial Geochemistry: The influence of microbes on geochemistry: the influence of geology on microbial ecology: P Bennett, C Omelon
0900h GCC0205L Nanogeochemistry: Nanophases, nanostructures and their reactivity in natural systems: Y Wang
0930h GCC0206L Microbially mediated cobalt cycling? Cobalt resistance and uptake in coma-monas testosteroni, isolated from the Zambian copperbelt: A Roychoudhury, S Staniland, D Cowan
1030h GCC0207L Geochemistry of carbon dioxide sequestration: Y Kharka, D Cole, T Bullen, K Knauss, S Kovorka
1100h GCC0208L Sampling philosophy as a basis for lithochemical exploration: S Galyuk, O Menchinskaya
1130h GCC0209L Mineralogical, chemical and isotopic tracing of di-uid-rock interactions and mass transfers in sedimentary basins: N CLAUER
1400h GCC0210L Geochanical consequences of metal mining: The failures and successes of science and engineering: D Nordstrom
1430h GCC0211L Urban environmental geochemistry sources of toxic pollutants and possible dispersion mechanisms: M Jartun
1500h GCC0212L Metal contamination of the environment in the Anthropocene: perspectives, processes and programmes: J Farmer, A MacKenzie
1600h GCC0213L The geochemistry of landscape dynamics: J Kirchner
1630h GCC0214L The Neolithic Alpine Iceman’s origin and beyond: Towards high-resolution mobility and subsistence reconstructions of humans and fauna: W Muller

Wednesday 0830h
GDP-01 Elevated, passive continental margins: Timing and mechanisms of uplift
0830h GDP0104L Horizontal compression and stress concentration at passive margins: Causes, consequences, and episodicity: P Cobbold
0900h GDP0105L Timing of uplift of the Scandinavian mountains constrained by the offshore sedimentary record: J Faleide, R Gabrielsen, J Nystuen

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.
0915h GDP01803L Cenozoic uplift around the North and South Atlantic: P Japsen, J Bonow, P Green, J Chalmers, K Lidmar-Bergström

0930h GDP01804L The “passive” margins of the North Atlantic – revisiting the geological evidence of uplift and subsidence: I Anell, H Thybo, A Irina

0945h GDP01805L Vertical motions of East Greenland: Impact of erosion, deposition, paleodrainage, and isostasy: S Medvedev, E Hartz, J Faleide, Y Podladchikov

1030h GDP01806L More thoughts on edge driven convection and continental margins dynamics: S King

1045h GDP01807L Post-breakup uplift of rifted margin continental hinterlands: A consequence of buoyancy assisted upwelling during lithosphere thinning and breakup: E Greenhalgh, N Kusznir

1100h GDP01808L The role of peridote hydration in sustaining elevation of passive margins: A Skelton, M Jakobsson

1115h GDP01809L The relationship between deep crustal structure and surface uplift: R England, J Ebbing

1130h GDP01810L The vertical expression of a horizontal flow: Stratigraphic manifestations of transient mantle convection: N White, J Rudge, M Shaw-Champion

GD01811P Structural differences between the northern and southern Scandes and their importance for uplift mechanisms: J Ebbing, O Olesen

GD01812P Magnitude of Cenozoic uplift estimated from analysis of base-level governed erosion surfaces: J Bonow, P Japsen

GD01813P The evolution of the elevated, passive continental margin of southeastern Brazil: Magmatism, changes of stress field, uplift, and river captures: C Riccomini, S Hiruma, M Modenesi-Gauttieri, P Hackspacher, J Hadler Neto

Wednesday 0845h
GET-02 Nature of geothermal systems based on geophysical, geochemical, petrological and tectonic studies – Part 2

0845h GET02811L Geology, hydrothermal alteration and tectonic setting of the geothermal system at Bitra, Southern Iceland – evidence from exploration drilling: A Mortensen, H Franzson, A Blischke

0900h GET02812L Origins of heat and solutes in springs in a non-volcanic tectonic region, South Island, New Zealand: A Reyes

0915h GET02813L Geochemical processes and vent fluid origin in the Punta Mita coastal submarine hydrothermal system: R Prol-Ledesma, C Canet, R Villanueva-Estrada

0930h GET02814L Target verified during directional drilling program in geothermal system with emphasis on the Krafla high temperature area: Á Guðmundsson

0945h GET02815L Sustaining the Luleå Geothermal Production Field: 10 years of BOT operation and future direction: E Alcobert, V Saw, E Herras, D Daclio, E Angcoy, M Colo, R Abapo, G Parayno, K Belas Daclio

Wednesday 0830h
GHZ-02 Geohazards and risk studies under global environmental change

0830h GHZ02801L The GeoExtreme project, Norwegian geohazards in a changing climate: K Sletten, A Solheim, B Lars Harald, C Jaedicke, A Sorteberg, K Stalsberg, A Aaheim, I Barstad, U Domaas, F Flatoy, O Hoydal, I Isaksen, K Kristensen, K Kronholm, C Melchiore, H Mestl, H Saelen, D Vikhamar Schuler

0900h GHZ02802L The GeoExtreme project, Module A: Historical landslide and avalanche events: C Jaedicke, K Kronholm, K Isaksen, D Vikhamar-Schuler

0915h GHZ02803L The GeoExtreme project, Module B: Description of the current climate and investigation of future climate scenarios: F Flatoy, I Barstad, A Sorteberg

0930h GHZ02804L The GeoExtreme project, Module C: Changes in geohazard patterns based on climate models. Examples from case study areas: K Stalsberg, C Melchiore, U Domaas, O Hoydal, K Kristensen, K Sletten

0945h GHZ02805L GeoExtreme module D: Socioeconomic consequences and implications: A Aaheim, H Mestl, H Saelen

1030h GHZ02806L Shallow landslide probability: Scenario modelling under climate change and uncertainty: C Melchiore, K Sletten, L Blika, M Derron, K Stalsberg

1100h GHZ02807L Landslides: a climatic marker in the Central Andes: S Moreiras, R Villalba

1130h GHZ02808L Rockfall hazard zonation map along the Chalous road (North of Iran) with use Cone fall theory and GIS method: N Ghazipour, M Pirouz, I Entezam Soltani, A Uromeihi

1145h GHZ02809L Research on an ancient landslide-damed lake found in the Jinsha River valley near Benzilan, Deqin, Yunnan, China: Y Zhang

1400h GHZ02810L Assessment of a hazard of exogenic geological processes on the Russian territory during the nearest decade: V Kropoderov

1430h GHZ02811L River flooding, torrent and debris flow hazards in Austria: C Embleton-Hamann

1500h GHZ02812L Consequences of flash-flood-2000 in the southwestern part of Bangladesh: R Ali

1615h GHZ02814L Geohazards in mining settlements: the problem of onsite sanitation system leakage, Karnataka, South India: R Hanumanahally Kambadaranagappa

1645h GHZ02815L Cryoslope svalbard – climate change effects on high arctic mountain slope processes and their impact on traffic in Svalbard: H Christiansen, O Humlum, K Stalsberg, A Sjoblom, U Neumann

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.
**GHZ02816P** Environmental character of the modern yellow river delta coastal wetlands: P Li, x Zhang, P Li

**GHZ02817P** A 7300 year reconstructed history of climate, floods and colluvial events: K Vasskog, E Støren, A Nesje, D Ariztégui, E Chapron, N Walldmann

**GHZ02818P** Geohazards map and assessment of some Balkan countries: B Muco, G Alexiev, S Aliaj, Z Elezi, B Grecu, N Mandrescu, Z Milutinovic, M Radulian, B Rangelov, D Shkupi

**GHZ02819P** Holocene climate, river floods and colluvial events recorded in proglacial lake Russvatnet, eastern Jotunheimen southern Norway: E Støren, K Vasskog, A Nesje, S Dahl

**GHZ02820P** The use of geophysical methods for structural interpretation of the sub-surface at Åknes rockslide, western Norway: J Roenning, G Ganeroed, E Dalsegg, H Elvebak, J Toennesen, B Heincke, L Blika

**GHZ02821P** Extreme Floods modelling comparisons in urban areas: First steps towards including geomorphological analysis in hydraulic numerical tools: M Llorente Isidro, C Lines Diaz, J Lopez Martinez, V Ruiz Villanueva, A Diez Herrero, L Lain Huerta, J Ballesteros Canovas, P Torp Larsen, A Andres Urrutia

**GHZ02822P** Modern technologies of managing the utilization oil-dissolved gas projects: R Momot, M Nekrasova, S Sidorenko

**GHZ02823P** Coastline changes due to sea level rise in the Gulf of California and their implications to population: G Martinez-Gutierrez, J Diaz-Gutierrez, S Diaz-Castro, A Aragon-Noriega, A Arreola-Lizarago, L Brito-Castillo, S Burrola-Sanchez, C Salinas-Zavala

**GHZ02824P** The history of recent cosmic impact and its potential role in Holocene rapid climate change: W Masse, D Abbott, M Baillie, G Barrientos, K Ernstson, R Firestone, V Gusiakov, S Haslett, M Rappengluck

**Wednesday 0830h**

**GTR-04 Hyperspectral remote sensing and image spectroscopy**

0830h **GTR04801L** Development of hyperspectral thermal remote sensing for geologic applications: J Taranik, D Riley, J Hackwell, G Vaughan, Z Aslett

0900h **GTR04802L** How to determine the geologic controls on the spatial distribution of hydrothermal alteration minerals in hyperspectral imagery: F van Ruitenbeek, F van der Meer

0915h **GTR04803L** Hyperspectral image analysis for mineral exploration in Pulang, Yunnan province, China: C Bishop

0930h **GTR04804L** Exploration advances: New developments in spectral remote sensing in the Mount Isa region, Australia: M Thomas, C Laukamp, T Cutahy, M Jones

0945h **GTR04805L** Spectral library of geological units and determination using hyperspectral CHRIS-Proba images of the southern boundary of the Sivas Tertiary Basin/Turkey: K Kavak, H Konya


1045h **GTR04807L** Spectral mineral mapping utilizing high altitude and ground-based spectroradiometry: Case studies from Sokolov open-pit mine, Czech Republic, and Sechura desert, Peru: V Kopackova, S Shevrel, A Bourguignon, M Rajchl

1100h **GTR04808L** Comparative analysis of hyperspectral reflectance and hyperspectral emittance image data for detecting mineral assemblages associated with hydrothermal alteration in the beatty area of Nevada, Western United States: Z Aslett, J Taranik, D Riley

1115h **GTR04810L** Hyperspectral mineral mapping for the geosciences in Australia: R Hewson, T Cudahy

**GTR04811P** Spectral reference index atlas of exposed sedimentary rocks at Yemen: Z Al-Jawadi, I Al-Ganad

**GTR04812P** Characterization of geological samples of desert terrain using Hyperspectral data: S Yadav, R Vijayaraghavan, R Patukar

**GTR04813P** Comparison of multispectral (EO-1 ALI, Landsat ETM), and hyperspectral (EO-1 Hyperion) remote sensing data for geological mapping: K Nikolakopoulos, P Tsombos

**GTR04814P** Integration of ground based hyperspectral and lidar scanning for outcrop modelling and interpretation: T Kurz, B Simon, H John

**GTR04815P** Mapping supergene and hydrothermal alteration minerals using EO-1/hyperion in the El Salvador Porphyry-Cu Deposit, Chile: A Crosta, D Cardoso

**GTR04816P** Hyperspectral radiometry in the NIR wavelengths to quantify FeO abundance in Iron Ores: S Shammugam, S K J, A V M

**GTR04817P** A study of multilayer feedforward neural networks applied to pattern recognition of multispectral imaging: Y He

**Wednesday 0830h**

**HPP-05 Evolution of Archean crust – Part 2**

0830h **HPP05813L** Re-assessment of the thrust-accretion hypothesis for the southwestern Barberton greenstone belt, South Africa: M Van Kranendonk, A Kroner, E Hegner, J Connolly

0845h **HPP05814L** Chemostratigraphy of lavas of the Hooggenoeg and Komberg formations of the Barberton greenstone belt, South Africa: H Furnes, B Robins, M de Wit

0900h **HPP05815L** A GIS aided aerogeophysical, geologic and geochemical investigation of the late Archaean granitoids in the Musona-Mara Greenstone Belt, NW Tanzania: E Mshi, I Marobhe, M Maboko

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*Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.*
0915h HPQ05816L Formation of Paleoarchean continental crust in a non-subduction setting: The East Pilbara example: M Van Kranendonk, H Smithies, D Champion, D Huston
0930h HPQ05817L Geodynamic evolution of the Eastern Goldfields Superterrane: New insights for the development of Neoarchean crust: K Czarnota, R Blewett, D Champion, P Haoen

Wednesday 0815h
HPQ-02 Black Sea–Mediterranean Corridor during last 30 ky: Sea level change and human adaptation
0815h HPQ02801L The Dead Sea fault and its effect on civilization: Z Ben-Avraham
0845h HPQ02802L Modes of active tectonics in Gokceada island, northern Aegean Sea: H Koral, H Ozturk, N Hanici
0915h HPQ02804L High frequency sea level fluctuations recorded in the Black Sea since the LGM determined from sequence stratigraphy correlated to core analysis and dating: G Lericolais, C Bulois, H Gillet, F Guichard, C Morigi, I Popescu, A Minereau, S Popescu
0930h HPQ02805L Morphotectonic evolution of the Marmara Region: From the Canakkale Strait to the Istanbul Strait: Y Yilmaz
0945h HPQ02806L Geological evidence for non-catastrophic sea-level rise in the northwestern Black Sea over the past 25 ky: E Larchenkov, S Kadurin
1030h HPQ02807L Holocene environmental changes in the Ukrainian steppe, indicated by pollen: N Gerasimenko, G Pashkevich
1045h HPQ02808L Holocene biotical and sedimentological changes in the NW Black Sea: G Oaie, M Melinte-Dobrinescu
1100h HPQ02809L Reconstructions of sea-level and coastline migration of the Neoeuxinian basin, NW Black Sea: E Konkov, G Pedan, S Faschevsky
1115h HPQ02810L Mediterranean – Marmara – Black Seas connections during the last 20 ka: palaeoenvironmental reconstruction in the context of global climate change and regional tectonic setting: S Popescu, O Bazeley, S Boroi, P Sorrel, F Dalesme, G Jouannic, M Head, G Lericolais, N Çağatay, J Suc
1130h HPQ02811L New data on the Morphotectonic development of the Bosphorus: Y Yilmaz
1400h HPQ02812L The Caspian Sea, a natural laboratory for sea-level change: S Kroonenberg
1430h HPQ02813L Climatically forced Caspian Sea level changes as it recorded in Pleistocene succession: E Aliyeva, E Amirov
1445h HPQ02814L Caspian Sea level change and organic carbon distribution in the Kura delta bottom sediments: D Huseynov, E Aliyeva, S Kroonenberg
1500h HPQ02815L Flooding of the late Pleistocene gemlik Caspian-like water body (marmara sea) as documented by macrofaunal data: M Taviani, L Angeletti, N Cagatay, L Gasperini, A Polonia, F Wesselingh
1515h HPQ02816L Migration of the Northwest Black Sea coasts based on instrumental observations: G Pedan
1600h HPQ02817L Coastal laws in Turkey: S Sazak
1615h HPQ02818L Late Quaternary sedimentation in the tectonically active Tekirdag basin, western Marmara sea, Turkey: F Yigit-Faridiatli, M Ergin
1630h HPQ02819L Azovian Region in the system of Black Sea – Mediterranean corridor during Quaternary: Stratigraphic and paleoenvironmental aspects: A Dodonov, M Sotnikova, A Tesakov, V Titov, V Shchelinski

HPQ02820P Biostratigraphy of Late Pleistocene and Holocene sediments from the southwestern Black Sea: M Filipova-Marinova

HPQ02821P Coastal flora in Marmara region in Turkey: A Sagiroglu

HPQ02822P Pleistocene-Holocene uplift in the southeastern part of The Black Sea Coast (Trabzon City, Turkey) in the context of the active tectonics and seismicity of Black Sea: O Bektas, S Keskin, K Pedroja, Y Eyuboglu

HPQ02823P Geomorfosistemi littoral plains as a result of fluctuations in the level of the Caspian Sea: F Akiyana

HPQ02824P Paleogeography of the late Pleistocene Caspian basins: Geochronometry, paleomagnetism, paleo-temperature, paleosalinity and oxygen isotopes: V Shkatova

HPQ02825P Paleolimnological studies on the Crimean Peninsula, Northern Black Sea, first results: D Subetto, V Stolba, T Sapelko, N Gerasimenko, V Bakhmoutov, D Kuznetsov

HPQ02826P The Holocene sedimentation on the North Caucasian Black Sea Shelf: A response to sea level change: E Platonova, I Murdmaa, T Cronin, E Ivanova, O Levchenko, V Vasileva, S Howe

Wednesday 0830h
HYH-01 General contributions to hydrogeology – Part 2
0830h HYH01824L Groundwater depletion from confining layers: L Konikov, C Neužil
0845h HYH01825L Determination of sustainable ground water use: M Anderson, D Pool
0900h HYH01826L Utilizing dry Palaeo-Channels of the Vedic Sarasvati River in the arid and semi-arid regions of Northwestern India for the artificial recharge of ground water: K SHRIVASTAVA, B PALIWAL
0915h HYH01827L Hydrogeology of the Indian Himalayas: A review: R Arya

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.
0930h HYH01828L The rate and timing of direct mountain front recharge in an arid environment: A Mayo, G Carling, D Tinge

0945h HYH01829L Response to rainfall of groundwater level in Apulian (Southern Italy) aquifer: V Simeone, D Mancarella

1030h HYH01830L Groundwater recharge induced cyclic opening and closure of Alpine valleys: S Loew, J Hansmann

**Wednesday 0830h**

**HYH-07 Groundwater flow and water–rock interaction in compact fractured rocks: Storage of nuclear waste, field evidence and mathematical models – Part 2**

0830h HYH07811L Key features of the near-surface hydrogeology of the Forsmark area, Sweden: P Johansson

0845h HYH07812L Groundwater recharge and flow in crystalline formation in Sudety Mts: S Stasko

0900h HYH07813L Super-regional groundwater modelling in hard rock terrain – evaluation of conceptual simplifications and model uncertainties: L Ericsson, J Holmén, I Rhén, N Blomquist

0930h HYH07814L Three-dimensional discrete fracture network simulations of flow and tracer migration based on Laxemar site data (Sweden): A Frampton, V Cvetkovic

0945h HYH07815L Roughness effects on fluid flow and transport: Implications for predictive modeling: D Slottke, R Ketcham, B Cardenas, J Sharp Jr

1030h HYH07816L Geological-hydrogeological map of site suitability for underground injection of liquid industrial waste in deep water-bearing units within Russia: S Syvatovets

1045h HYH07817L The hydraulic anisotropy of the fractured crystalline rocks at the Åspö hard rock laboratory: G Gustafson, I Rhén, L Rosen

1100h HYH07818L Fluorescin uranin detection by TV cameras: L Dolezalova, R Hanus, M Polak, P Nakladal

1115h HYH07819L Fracture analysis determined by integration of boring-core descriptions and borehole TV images: Example from the late Cretaceous Toki granite in the central part of Japan: C Dia

**Wednesday 0830h**

**IEE-05 Geoscience education for the 21st century**

0845h IEE05802L Geology in shopping centers: A psychogeographic educational experiment in Brazil: T Ferol

0900h IEE05803L Rock layers are the pages of the book where the History of the Earth is written How far can this analogy be stretched?: J Sellés-Martínez

0915h IEE05804L Reform of geosciences education in Mongolia: G Ochir, M Baatar

0930h IEE05805L Inquiry initiated approach to an earth system science course for seniors: I Clark, P James

0945h IEE05806L Earth system science: A holistic tool for Geology and Geography undergraduate students: C Carneiro, P Gonalves

1030h IEE05807L GIS education in geology: Methodology, tools and applications: A Zevakov, K Koukoupolous, K Nikolakopoulos

1045h IEE05808L Cyber-enabled geoscience learning: Trends for the 21st century: S Locke

1100h IEE05809L Earth learning idea – ideas for teaching Earth science in schools with few resources: C King, P Kennett, E Devon

1115h IEE05810L Hands-on Earth: A project for geological education and awareness: J Saraiva, R Doran

1130h IEE05811L Students’ opportunity to experience scientific literacy in Earth science content: Based on the 1st International Earth Science Olympiad: Y Park

1400h IEE05813L What is that of the water table?: A collaborative project for non-formal education: J Sellés-Martínez

1415h IEE05815L Geoscience training: A routine requirement for geoscientists with reference to GSB: M Hasan

IEE05816P Traditional versus Inquiry Based Physical Geology in undergraduate classrooms: H Chad

IEE05817P College science students’ preferred-actual learning environment in a reform introductory earth science course: C Chang, C Hsiao

IEE05818P Geosciences contents in the Brazil Basic Education: Experimentation and interactivities learning: R Imbernon

IEE05819P A reflection on the use of WebQuests in the Geosciences learning/teaching process: J Moreira, H Sant’Ovaiia, L Lima

IEE05820P The digitized collections of the Museums of Geology and Palaeontology educational tools for school education: G Fermeli, M Dermitzakis

IEE05821P Problem based learning curriculum unit: Earth internal dynamics: S Carrasquinho, C Vasconcelos, N Costa, M Ribeiro

IEE05822P The analysis of students’ cognitive character through a drawing activity in teaching module of earth systems education: H Oh, C Kim, J Kim

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**Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.**
IEE05823P The influence of global science literacy-oriented instruction on students’ views of the nature of science: E Yu, H Oh, C Kim

IEE05824P A case study of scientific inquiry and argumentative communication in Earth science MBL classes: J Oh, S Lee, C Kim

IEE05825P A case study of Earth science teacher’s professional development: H Han, C Kim, S Lee

IEE05826P The characteristics of students’ mental representation on the drawing-based ESE activity: Focused on gender difference: J Kim, H Oh, C Kim

IEE05827P Illustrating the role of informal learning institutes for science inquiry communities: Exploring the potential for STS learning materials of the earthquake exhibits in natural history museums: K Kim, S Lee, C Kim, M Shin


IEE05829P The analysis of secondary students’ conceptions about lunar phase: On the basis of curricula-based instruction and assessment items: Y Ahn, G Lee, S Choe

IEE05830P Analysis of online Project-Based learning for scientifically gifted students: G Lee, Y Ahn, S Choe

IEE05831P Field trip in a magmatic and metamorphic context: From geological research to the field guide: P Ferreira, M Ribeiro, C Vasconcelos

IEE05832P The island of Hovedoya in the Oslo Fjord – nature and culture: C Webb

IEE05833P Research and development of questionnaire cards in order to encourage the development of scientific reasoning in visitors to natural history museums: E Park, J Lee, M Shin, K Kim, S Lee, C Kim

IEE05834P Geological curricula for the 21st century: Indian context: S Kottapalli

IEE05835P Inspiring A-level and post-16 geology students with museum collections: D Gelshorpe, E Sutherland

IEE11807P Symbolize the map Features with style in ArcMap – a method used in compiling the 1:5M international geological map of Asia: J Wang, L Jiang, Q Zhang, B Niu, J Ren, k Chen, P Deng, L Xiao, B Cao

IEE11808P The standardization and system construction of submarine geological map: K Chi, J Hwang, J Han, Y Yeon

IEE11809P Digital compilation of archived geological maps: Meeting quality problems with a proactive information strategy: H Krenmayr, W Pavlik, O Kreuss, M Moser, M Rockenschaub

Wednesday 0830h
MGH-01 Earth and health – medical geology – Part 2
0830h MGH01805L Correction of soil Zn and Fe deficiency: R Soleiman, M Malakouti
0845h MGH01806L Medical geology studies in Brazil: C Silva

0900h MGH01807L Geoenvironmental conditions of the Brazilian Southern Highlands and human water intake: L Mantovani, D Moro Branco, E Brum, A Gondim
0915h MGH01808L A medical geology characterization of geological materials with medical use and handling by the Uitoto indigenous society: S Londono
0930h MGH01809L Geological influences on the soil, contributions to infections transmitted by helminths in Colombia: C Valencia Hernández, J Fernández Niño, C Londoño, Z Cucunubá, P Reyes Harker, M Lopez Paez
0945h MGH01810L Hydrothermal medicative clays – mud fermentation cure in Iceland: H Kristmannsdóttir, A Geptner

1030h MGH01811L Naturally occurring asbestos in eastern and South Australia: Geological occurrence, disturbance and mesothelioma risk: M Hendrickx
1045h MGH01812L Asbestos and mesothelioma in Houma, New Orleans, USA: A Dogan, M Doğan, M Carbone
1100h MGH01813L A geological approach to explain the unprecedented mesothelioma epidemic in Cappadocia: P Lepetit, L Viereck-Goette
1115h MGH01814L Chemistry, and individual particle characteristics of aerosols from the Middle East: J Engelbrecht, E McDonald, J Gillies, A Gertler
1130h MGH01815L Formation of volcanic cristabolite: Implications for health hazards: C Horwell, B Williamson, J Le Blond
1145h MGH01816L Minerogenic dust and human health: sources, pathways and health impacts: E Derbyshire

1400h MGH01817L Parish classification or dwelling coordinate for exposure assessment in environmental epidemiology: M Tondel
1415h MGH01818L Lignite commodity or dangerous material?: D Karageorgiou, A Metaxas, D Dimitriou
1430h MGH01819L Highly time-resolved Pb exposure monitoring using laser-ablation ICPMS profiles of tooth enamel: W Muller

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.
1445h MGH01820L Connections between earth and human body processes – uniformitarianism and homeostasis: W Size
1500h MGH01821L Geochemical environmental effects of metallic sulfide deposit and its mining and origin of cancer village in Dabaoshan from northern Guangdong (China): Y Zhou, S Fu, C Zhang, B Chen, X Yang, H Du
1515h MGH01822L Influences of human activities on dust composition and flux in western North America during the past 150 years: R Reynolds, J Neff, M Reheis, K Moser, J Rosenbaum
1600h MGH01823L Geochemical evaluation of the Lagos lagoon sediments: A Olatunji
1615h MGH01824L Contribution to the geochemical elements and diseases distribution in Iran: M Navi
1630h MGH01825L Evolution, pollution, and cancer: K Hsu
1645h MGH01826L Issues in climate change and health impacts in Nepal: B Pradhan, O Moog
1700h MGH01827L Sedimentary basins: Medical and geological aspects of the studies: E Farrakhov, N Miletenko, I Pechkinin, A Pronin, I Volfon, O Beiseyev, M Bogdasarov, I Komov
1715h MGH01828L The mineral waters and human health: L Jovanovic

Wednesday 0815h
MGH-02 Groundwater – Geopolllution, contamination and health aspects
0830h MGH02801L Risk Assessment of heavy metals due to exposure from soil and groundwater in asian countries: T Komai, Y Kawabe, M Takeuchi, J Hara
0900h MGH02802L Modes of sea (saline) water intrusion around the Bohai Gulf, China: Q He, C Li
0930h MGH02803L An illustrative example of the geo-pollution and the diagnostic standard for cleanup on the geo – pollution sites – In the case of VOCs such as PCE, TCE, etc.: H Nirei, T Hiyama, K Takashi, K Furuno
0945h MGH02804L Arsenic in bedrock groundwater in the Pirkannaa region of Finland: B Backman, S Luoma, T Ruskeniemi, V Karttunen
1030h MGH02805L System of inventory, databasing and monitoring of contaminated land and groundwater, case of Lithuania: J Satkunas, J Arustiene, R Kanopiene
1045h MGH02806L The basic study on the behavior of ground air flows with polluted ground air from the view point of geo-pollution science: H Fujita, Y Kinjo, T Hiyama, H Nirei
1100h MGH02807L Electromagnetic detection of groundwater pollution sources: D Stojiljkovic
1115h MGH02808L River water contamination of 4TBP caused by LNAFL in disposal site and domestic groundwater monitoring system: T Kusuda, Y Kasahara, T Yoshida, J Nishikawa, K Kamura, Y Kinjo, H Nirei
1130h MGH02809L Simulation of groundwater pollution at geo-pollution site by trichloroethylene, Mobar, Chiba Prefecture, Japan: K Furuno, F Takanaka, K Satoh, H Nirei, O Kazaoka, T KUSUDA

1145h MGH02810L Mathematical models of contaminant transport with ground water in the system of ground water monitoring: N Kochergina
1400h MGH02811L Alarming Fluoride contents in groundwater in semi-arid region in India: Analyzing for its vulnerability: S Pagadala, S Ahmed
1415h MGH02812L An investigation on sources and amounts of heavy metal pollutant in drinking water in Kurdistan province (west Iran): L Mehrpardo
1430h MGH02813L Groundwater contamination due to manganese mining and its impact on health of minersworkers- a case study from India: M Das, S Goswami
1445h MGH02814L Health hazards by nitrate pollution of groundwater in intensified agricultural areas: J Thanasalasingam, M Thushanyth

MGH02816P Geogenic fluoride contamination in granitic hard rock aquifer, India: S Atal, H Pauwel, S Ahmed
MGH02817P Landscape and scientific valours of springs in the Polish Carpathians: L Rajchel, J Rajchel
MGH02818P A study on depositional process of man-made strata in an overland depression for the basic study of geo-pollution: K Soma, H Nirei, N Hirata
MGH02820P Arrangement of ecological monitoring of surface storage and sub-surface disposal sites: M Glinski
MGH02821P Assessment of natural radioactivity in groundwater in Central Portugal – a preliminary study: P Pinto, A Pereira, A Vicente, L Neves
MGH02822P Content characteristics of heavy metal in the Villager's hair in Xiaoqinling gold mine area: Y Xu
MGH02823P Distribution of arsenic concentrations in Holocene deposit of Tokyo lowland, Japan: T Yoshida, H Nirei
MGH02824P Ecological conditions of contaminated river deposits cleanup process near the water supply source of belgrade: I Matic, S Vujasinovic, G Minic
MGH02825P Electrokinetic remediation of heavy metal polluted low-permeability georegions by using clean energy: M Zhang, A Ono, A Sawada, T Komai, K Marumo, H Sugita
MGH02826P Experimental research on accumulation of a light petroleum product layer above a groundwater table: N Paramonova, N Ognianik, O Shpak
MGH02828P Groundwater modeling in assessments of geo-pollution research and remediation: K Fujisaki
MGH02829P How to use the groundwater resources at geo-pollution area on organoasenic compounds: T Hiyama, H Ikeda, T Takahata, H Nirei
MGH02830P Important role of continuous and precise groundwater monitoring in polluted groundwater pumping tests on geo-pollution sites: A Kagawa, K Furuno, H Nirei, T Kusuda
MGH02831P Investigations of natural radioactivity of carbonated waters from the Poprad River valley in the Polish Carpathians: L Rajchel, N Chau, E Chrujecelj, J Rajchel, J Motyka

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MGH02832P Mineral and therapeutic groundwater beneath the highly urbanised area of the Cracow City (South Poland): L Rajchel, M Czop, J Motyka

MGH02833P Most vulnerable aquifer and geo-environmental management by local government: H Takahina

MGH02834P Natural attenuation, groundwater flow and groundwater quality of shallow aquifer on VOCs Geo-pollution site in Urabe district, northern part of Shimousa upland, northern Boso Peninsula, central Japan: O Kazaoka, M Murakoshi, T Kusuda, H Nirei, T Tanaka, K Aoki, A Yamaki, M Takeuchi

MGH02835P Natural strontium in drinking water of the Arkhangelsk region: F Yudakin, A Malov

MGH02836P Nitrogen contamination of groundwater and hydro-stratigraphic unit from the view point of geo-pollution science: T Nishikiori, T Obara, T Takeshima, S Kameyama, T Fuse, H Nirei, T Takamatsu

MGH02837P The spatial variation of acute myocardial infarction incidence and magnesium in well water in rural Finland: A Kousa, A Havullina, E Moltchanova, O Taskinen, M Nikkarinen, V Salomaa, M Karvonen

MGH02838P Two types of mechanism of geo-pollution and stratigraphic classification of man-made strata: H Nirei, B Maker, J Satkunas, K Furnø

Wednesday 0830h

MPN-12 Sederholm symposium on high-grade metamorphism, crustal melting, magmatites and granites – Part 1

0830h Introduction

0900h MPN12801L The metamorphic record of changes in tectonothermal regime on Earth and the geodynamic implications: M Brown

0930h MPN12802L Secular change in metamorphism and magma production at active margins: Numerical modelling: T Gerya, I Loew, E Sizova

1030h MPN12803L Granulites, granites and crustal growth: C Hawkesworth, T Kemp

1100h MPN12804L The garnet-rich layer problem revisited: R HM, S M

1115h MPN12805L Cognate mafic granulite xenoliths in massif-type garnetite, Eastern Ghats Granulite belt: A case study from Paderu, Andhra Pradesh, India: P Prasanta Das

1130h MPN12806L Dehydration melting in a clockwise P-T path: Evidence from a pelitic migmatite-granitoid suite, in the Eastern Ghats Granulite Belt, India: A Saw

1400h MPN12807L Ductile fractures: The origin of dykes: R Weinberg, K Regenauer-Lieb

1430h MPN12808L Interaction between Paleoproterozoic deformation and magmatism at an oblique convergent margin, central Finland – Kinematic constraints, isotopic insights and seismic signatures: P Sorjonen-Ward, O Aikas, A Kontinen, H Lukkarinen, J Paavola, T Ruotoistenmäki

1445h MPN12809L Thrusting in a hot Palaeoproterozoic orogen: examples from the west-central Fennoscandian Shield: H Sjöström, K Högdahl, E Ogenhall

1500h MPN12810L Multiple shear-related melt transport in the central part of the Fennoscandian Shield: K Högdahl, H Sjöström

1515h MPN12811L Geologic nature of the lower crustal early protorozoic metabasite-endebrite association of the Dzhugdzhur Block (Aldan Shield): G Vovna

1600h MPN12812L The link between migmatises and granites: polyphase melting and granite magmatism during the tectonic evolution of the Fosdick migmatite dome, West Antarctica: F Korhonen, M Brown, S Saito, C Siddoway

1630h MPN12813L Folding and magma extraction from migmatises: R Weinberg, G Mark

1645h MPN12814L In-situ melting – Intracrustal Convection: Formation mechanism of granite and migmatises: G Chen, R Grapes

1700h MPN12815L From migmatises to plutons: The origin of granitic magma, U-Pb zirconological approach: T Nakajima, Y Orihashi, K Miyazaki, T Danhara

Wednesday 0830h

MPV-01 General contributions to volcanology – Part 2

0830h MPV01811L Effects of mechanical layering on dyke-propagation paths: A Gudmundsson

0845h MPV01812L The variable style of volcano deformation in Iceland: F Sigmundsson

0915h MPV01813L The SBAS-DlnSAR approach for surface deformation analysis of Mt. Etna volcano (Italy): Fifty years of observations: G Solaro, F Casu, S Pepe, P Berardino, R Lanari

Wednesday 0830h

MRD-01 General contributions to mineral deposits – Part 1

0830h MRD01801L A brief review of the Precambrian metallogeny of peninsular India, Madagascar and eastern/southern Africa: S Frost-Killian

0845h MRD01802L Volcanogenic sulphide, precious metal and iron ore deposits in Paleoproterozoic Continental margin settings of Singhbhum Province, India: Their evolution in time and space: K DR. Rai

0900h MRD01803L Metallogenesis of the tibetan collisional orogen: A review: Z Hou, X Mo, Z Yang, A Wang, Z Yang, X Qu

0915h MRD01804L A study on sedimentary facies of Liuju member of Matoushan formation and forecasting of copper-bearing sand-body in Liuju area, Chuxiong Basin, China: Y Hu, C Min, P Wu

0930h MRD01805L Geochemical anomaly pattern in the Liuju Sandstone-Type Copper Deposit, Yunnan, China: P Wu, R Han

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium's oral presentations.
0945h MD01806L The structure of ore-controlling strain and stress field in Shangzhuang gold deposit in Wangershan fault zone in Shandong Province, China: J Deng

1030h MD01807L An effort at defining a carlin-like deposit (Zaozigou gold deposit): M Salifou Sanogo, X Lu

1045h MD01808L The cobalt deposits of the South Khatkassia: Contents of noble metals, age and relationship with magmatism: I Tretjakova, G Fedoseev, E Naumov, A Borisenko, V Lebedev

1100h MD01809L Exploration in Shazand – Aligudarz zone of Iran by GIS: A Mohedi, M Sadeghi, S Delavar

1115h MD01810L GIS-based mineral deposit modeling in Arasbaran region northwest of Iran: S Moosavi Makooi, S Heidari

1130h MD01811L Orogenic gold mineralization in the zartorosht deposit, southern Sanandaj-Sirjan zone, south west of Iran: N Rashidnejad Omran, R Rastgoo Moghadam, F Aliyari, E Rastad, M Mohajel

1145h MD01812L Geochemical exploration and study on combined halos of elements in soil samples of Mjasjeddagh jolla area: N Gholami

1400h MD01813L Geochemical characteristics of vein type polymetallic kőstere deposit (Gümüşphane, NE-Turkey): Implications for genetic properties of ore forming fluids: Y Demir, M Sadiklar, I Uysal

1415h MD01814L Mineral deposits at the southern border of the European Variscan Belt: P Giumeli, M Arias, A Martin-Izard, P Lusty

1430h MD01815L Geology and mineralization in the Bole-Nangodi Belt northern Ghana: S Anum

1445h MD01816L Developments and trends in the availability of non-ferrous mineral raw materials: V Steinbach, P Buchholz, J Vasters, M Wagner

1500h MD01817L Fluid inclusion characteristics of the Qogoleh Gold Deposit, northwestern Iran: F Aliyari, F Rastad, C Yanjng

1515h MD01818L Comparative study between ore minerals and coexisting quartz using infrared microscope: X Tao, X Lv, F Li

1600h MD01819L Segregation of multi-component fluids at the brittle-ductile transition: Significance for orogenic gold mineralization: K Gessner, M Kuehn, F Fussies

1615h MD01820L A new apparatus for analyzing volatile composition of fluid inclusions by mass spectrometry coupled with their decrepitation temperature: Example using a sample from the Huqiao gold mine in China: D Gaboury, M Keita, J Guha, H Lu

1630h MD01821L Fluid inclusion, ore microscopic and sulphur isotopic studies of imila gold occurrence, district katni, madhya pradesh,india: evidence of magmatic source: A Singh, A Singh

1645h MD01822L AyQalesi deposit, SE Takab: An example of intermediate sulfidation epithalaeal base and precious metal deposits: M Shirkhani, M Ghaderi, N Rashidnejad-Omran

1700h MD01823L P-T-X conditions of mineralizing fluids from Pb-Zn-Ag hydrothermal-metamorphic deposit Stari Trg, Trepèa, Kosovo: S Strmic Palinkas, L Palinkas, V Lueders, F Molnar

**Wednesday 0830h**

**MRD-06 Granitic magmatism and related mineralizations**

0830h MD06800L Highs and low of reduced granite related gold deposits: R Tosdal, S Ebert, J Mortensen

0900h MD06801L Metallogeny of indium in the Svecofennian Domain: K Sundblad, M Ahl

0930h MD06802L Epithermal and porphyry-related Au and base-metal mineralizations in the Paleoproterozoic Uatumá magmatism – Tapajós Gold Province, Amazonian craton: C Juliari, L Monteiro, J Bettencourt, C Fernandez

0945h MD06803L Polymetallic metallogeny in the Wiborg batholith, Fennoscandian shield: K Sundblad, N Cook, R Nygård, O Eklund, M Valkama, K Penttinen, N Nygård, K Rimaila, J Paadar, M Lamm, T Sei, F Krell, H Huhma, M Airo

1030h MD06804L Kervian orogenic gold deposit in northwest of Iran: S Heidari, E Rastad, M Mohajel

1045h MD06805L The geology and ore genesis of the Sharafabad gold district, NW Iran: S Ebrahimi, S Alirezaei, M Mehrparou

1100h MD06806L Geological characteristics and genesis research of Wushan Wenquan molybdenum deposit, Gansu: X Lv, X Cao, X Zou

1130h MD06807L The Algtask intrusive-hosted Au (-Cu) deposit, Sweden: T Beigarn, J Nylander, P Weihe, H Areback

1145h MD06808L Devonian magmatism of the Sierra de San Luis: M López de Luchi, A Steenken, S Siegsmund

1400h MD06809L On two Neoproterozoic granitic episodes in the oriental Borborema province, NE Brazil: V Ferreira, A Sial, M Pimentel

1415h MD06810L Evolution of granite pegmatites metallogeny through geological time: A Tkachen

1430h MD06811L Granitic magmatism and related mineral deposits in the Araçuaí orogen, SE Brazil: A Pedrosa-Soares, L Silva, S Medeiros, C Castañeda, J Roncato, T Novo, C De Campos, E Dantas, M Babinski

1450h MD06812L The time gap between tungsten mineralization and petrogenesis of its closely related granitoids in the southern Jiangxi province, south China: C Feng, D Zhang, S Wang

1500h MD06813L Geology and genesis of reduced gold skarn formation at Phu Thap Fah deposit, northeast Thailand: K Zaw, T Rodmanee, S Khositansont, S Ruamki

1515h MD06814L Cathodoluminescence and fluid inclusion studies of granitoids associated with Miocene Fe-Cu-Pb-Zn mineralization of the Chichibu skarn deposit in the active uplifting region of central Japan: Timing of generation of magmatic fluid coexisting with granitic melt: D Ishiyama, M Miyata, T Mizuta, H Satoh, M Fukuyama

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Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.
1600h MRD06815L Multifractal analysis of the element distribution in skarn-type deposits in Shizishan Orefield in Tongling area, Anhui province, China: Q Wang

1615h MRD06816L Magma mixing and unmixing related mineralizations in the Karacaali Magmatic Complex (KMC), Central Anatolia, Turkey: Ö Delibas, Y Genc, C. P. De Campos

1630h MRD06817L Panormos Bay, Ba-Ag±Te mineralization, Mykonos island, Cyclades, Hellas (Greece): Geological, mineralogical, fluid inclusions, stable isotope, and geochemical comparisons with the nearby panormos Bay Au-Ag~Te mineralization, Tinos island: S Tombrs, K St. Seymour, P Spy, A Williams-Jones

1645h MRD06818L Ore deposit modeling of Masjedgigh gold vein: M Hashemi

1700h MRD06819L Geology and geoeconomical potential of pegmatite deposits: A case study: J Fernandes, J Velho

1715h MRD06820L The Sosedka gem tourmaline-rich mine: Emplacement of extremely chemically heterogeneous pegmatite-forming medium: V Zagorsky, I Peretyazhko, A Dmitrieva

1730h MRD06821L Tourmaline nodules – product of devolatilization during final stage of granite melt evolution?: D Balen, I Broska

MRD06822P Fahlores composition as a criterion of difference between gumbeite and beresite-listvenite associations of Berezovsky gold deposit, Urals: S Filimonov

MRD06823P Mineralog–geochemical gold-bearing criteria of geological structures of the Ukrainian shield: O Dragomyrets'ky

MRD06824P Talantum-niobates of orogenic rare-metal deposits in western part of the Ukrainian shield (pyrochemistry and distributional patterns): O Grichenko, S Bondarenko, V Syomak, B Ivanov, L Kanunnikova

MRD06825P Carbon and oxygen isotope study of Cambro-Ordovician carbonate rocks from the Hwanggangri mineralized district, South Korea: S Chi

MRD06826P Crustal evolution in eastern Borborema Province (northeastern Brazil) based on geochemistry and U-Pb ages of plutonic and metamictic rocks: S Neves

MRD06827P Felsic volcano-plutonic association related to a caldera complex system at 1.88Ga in the Guyana Shield, Brazil: R Pierosan, J Ferron, E Lima, L Nardi, A Bastos Neto, M Prado, C De Campos

MRD06828P Fluid evolution and polymetalliferous mineralization in the Shinyemi skarn deposits, South Korea: J Seo, S Choi, S Pak, S Chi, C Kim, J Yoo, T Kim

MRD06829P Geochemical indicators of metasomatism in the Carboniferous San Blas pluton, Sierra de Velasco, Argentina: J Rossi, M Baez, M Basei, A Toselli, A Sial

MRD06830P Geochronological and mineralogical constraints on the emplacement of ascension rates of Episodically-Bearing magmas from northeastern Brazil: A Sial, P Vasconcelos, V Ferreira, R Pessoa, R Brasilino

MRD06831P Laramide-age plutonism in the guerrero terrane, southern Mexico: Some tectonic and metallogenic implications: P Corona-Chavez, P Schaff, B Bigioggero, A Tunesi, M Panseri, M Bergomi

MRD06832P Los Avestruces, a scheelite deposit associated to biotitites/lamprophyles, province of San Luis, Argentina: M Brodtkor, E Etcheverry, T Montenegro, P Leal

MRD06833P Metallogeny and provenance of tin in Vietnam: D Duong

MRD06834P Mineralogical controls on Th distribution in the epizonal Flores granite, north Patagonian Massif, Argentina: M Lopez de Luchi, A Rapalini

MRD06835P Mineralogy and geochemistry of cassiterite-mineralized greisens associated with the Agu Boa granite, Pitinga, Amazonian craton: G Feio, R Dall’Agno, R Borges

MRD06836P Ore bearing ability of Kamyani Mogly granite complex (Azov block of the Ukrainian shield) M Matviychuk

MRD06837P Origin and microstructure of K-feldspar megacrysts from Cretaceous granite (Pannonian Basin, Croatia): D Balen, V Kovács Kis, N Tomašíek, M Horvat

MRD06838P Pb isotope signatures of polymetallic deposits of the SW Amazonian craton and their relation to crustal evolution: M Graeldes, C Tassinari

MRD06839P Rare-metal granites as a component of volcano-plutonic ore-magmatic systems of Phanerozoic: L Syrtso, E Badanina, E Volkova

MRD06840P Relationship between tourmaline and tungsten mineralization in southwest of Shazand, west central Iran: M Abdi, M Ghaedre, N Rashidnejad-Omar


MRD06842P The eastern pegmatic province: A proposal of subdivision: N Angel, E Wernick, A Fontanetti

MRD06843P The first report on the role of post-collisional adakitic magmatism in the genesis of copper deposits in Iran and its regional implication: Evidence from Miocene acidic magmatism from Sarcheshmeh area, southeastern Iran: S Dargahi, M Arvin, Yunnming

MRD06844P The salamangone au-deposit: J Bettencourt, S Nogueira

MRD06845P Tin mineralization related to pegmatite, quartz vein and greisen in anorogenic subvolcanic environment: W Barbosa Leite Junior, B Leonelo Payolla, J Silva Bettencourt

MRD06846P Unconformity-related metallization in the Yinan Au-Cu-Fe skarn deposit, Shandong Province, China: X Gu, S Dong, Y Wang

Wednesday 0830h

MRD-20 Porphyry-type deposits

0830h MRD20801L Porphyry-type deposits and plate tectonics: The link between aseismic ridge subduction and metallogenesis: G Rosenbaum
0900h MRD20802L Tectonic controls on porphyry mineralization: Evidence from geochemistry and radiogenic isotopes: P Hollings, D Cooke
0915h MRD20803L Post-collisional porphyry Cu deposits: A new class unrelated to subduction: Z Hou, N White, X Qu, Z Yang, X Mo, X Pan, Z Rui
0930h MRD20804L Geodynamic setting of giant Au-rich magmatic-hydrothermal metal deposits in Papua New Guinea: Integrating geology, isotope geochemistry and seismic tomography: M van Dongen, R Armstrong, W Spakman, A Tomkins, R Weinberg
0945h MRD20805L Stress evolution at the horsetail end of a major strike-slip fault: Tectonic controls on a large porphyry, South Cotabato, Philippines: M Aurelio
1030h MRD20806L Formation of porphyry-Cu and porphyry-Mo deposits: Insights gained through the study of fluid, melt and solid inclusions: A Audet al
1100h MRD20807L Host rock control on Cu-Au mineralisation style: Where did Ok Ted’s juices go?: M van Dongen, A Tomkins, R Weinberg
1115h MRD20808L Character of gold within the Palaeoproterozoic Atik porphyry Cu-Au-Ag-(Mo) deposit: C Vanhainen, R Nordin, R Aaltonen
1130h MRD20809L Porphyry Cu-(Au-Mo) deposits – products of plutonism in compressional tectonic regimes: D Cooke
1400h MRD20810L Geology and exploration history of the super-giant Pebble copper-gold-molybdenum porphyry deposit, Alaska: M Rebagliati, J Lang
1430h MRD20811L Push-pull style tectonism and porphyry Cu metallogeny during bending of the Bolivian Orocline: T Ireland
1445h MRD20812L Contrasting mineralisation and alteration styles and a possible alkalic lithocap at the Cadia East porphyry Au-Cu deposit, NSW, Australia: N Fox, A Harris, D Cooke, D Collett
1500h MRD20813L Skarn formation and mineralization of the Jecheon mineralized area, South Korea: Y Ahn, S Choi, J Park, J Seo, C Kim, J Shin, N Kim, J Yoo
1515h MRD20814L Relationship between biotite composition and tectonomagmatic affinity of the granodiorite intrusion at the Serudine prospect, Iran: H Barzegar
MRD20815P Porphyry Cu-Mo deposits of Siberia and Mongolia: Geology and PGE content: A Berzina, A Korobeinikov, V Kiseleva
MRD20816P Epithermal veins and alteration halos in the Masjed-e-Daghia area, Iran: Implications for the presence of porphyry copper-style mineralization: A Akbarpour
MRD20817P Estimating the porphyry copper resource potential of China: G Yan, R Qiu, C Lian, L Cao
MRD20818P The Tominsoke porphyry copper deposit, southern Urals, Russia: E Ocharova, A Grabbezhev, B Puzhakov
MRD20819P Diorite-type and monzonite-type porphyry copper deposits: Y Arshamov, K Abdrakhmanov

MRD20820P The Erdenet molybdenum-copper porphyry deposit, Mongolia: I Maksimyuk, S Gavrilova, D Oroolmaa
MRD20821P Geology of the qulong porphyry copper- molybdenum deposit, Tibet: Z Yang, Z Hou, Y Song, Z Li
MRD20822P Gold-iron oxide bearing ore-magmatic system of the Auerbakh-Novogodnaya volcano-plutonic belt, the Polar Urals: M Girfanov, A Volchkov, S Kryazhev, V Novikov

Wednesday 0830h

OCE-01 Oceania and the 34th IGC in Brisbane
0830h OCE01801L Oceania: Geological setting and geoscience research priorities: I Lamb, N Williams, D Darby
0845h OCE01802L Study and exploration of New Zealand, the underwater continent: A Malahoff
0900h OCE01803L Geodynamic evolution of proterozoic Australia: G Gibson, D Champion, D Huston, D Maidment, G Fraser, S Sheppard
0915h OCE01804L The Tasmanides of Eastern Australia: Accretionary orogens documenting Neoproterozoic to Triassic interaction with the proto-Pacific Plate: R Glen, T Crawford, L Hutton
0930h OCE01805L To sink a continent: Exploring the implications of Zealandia’s fate: H Campbell, J Begg, D Mildenhall, C Landis, A Paterson, S Trewick
0945h OCE01806L Tectonic evolution of the Fjordland convergent Gondwana margin: J Scott, J Palin, A Cooper
1030h OCE01807L Assessing natural hazard risk in the Asia-Pacific region: A Simpson, J Schneider, P Cummins, J Griffin, T Dhu, C Arthur, M Middelmann, M Osuchowski, K Dale, R Leigh
1100h OCE01808L Geodetic contributions to earthquake hazard assessment and tsunami warning in the Oceania region: J Dawson, M Jia, P Cummins, S Spiliopoulos, H Guorong
1115h OCE01809L Geothermal energy in Oceania: Current use and future potential: B Ayling, C Harvey
1130h OCE01810L New insights into Jurassic – early Cretaceous rifting of the southwestern Australian margin, basin evolution and petroleum system elements: I Borissova, C Nicholson, A Krassay, V Neumann, R Di Primio, C Boreham
1145h OCE01811L Geology of an enigma: The Raukumara Sub-basin, the northernmost part of the East Coast Basin, North island, New Zealand: C Uruski
1400h OCE01812L Geoscience: A critical component underpinning evidence-based decision making in natural resource management: K Lawrie, C Pain, S Rogers, R Creswell
1430h OCE01813L New challenges for geological mapping in New Zealand: M Rattenbury
1445h OCE01814L Building an earth science informatics infrastructure in Australia: S Cox, R Woodcock, L Wyborn
1500h OCE01815L Geological storage of CO2 in Australia: A Kalinowski, J Bradshaw, A Chrirnos

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.
Wednesday 0830h

**PIS-01 General contributions to impact structures**

0830h **PIS01001L** Determining chondritic projectile size from marine osmium isotopes excursions: A comparison of the late Eocene and Cretaceous/Tertiary impact events: **F Paquay**, G Ravizza, T Dalai, B Peucker-Ehrenbrink

0845h **PIS01002L** A Neoproterozoic proximal impact ejecta blanket: Field observations and geochemistry of the Stac Fada Member (Torridonian Supergroup, Scotland): **K Amor**, S Hesselbo, D Porcelli, S Thackrey, J Parnell

0900h **PIS01003L** Oblique impacts into volatile sediments: ejection distribution patterns: **G Gisler**, R Weaver, M Gittings

0915h **PIS01004L** Post-impact structural crater modification due to sediment loading: An overlooked process: **F Tsikalas**, J Faleide

0930h **PIS01005L** The Ritland crater – An early Cambrian impact structure in West Norway: **F Riis**, H Dypvik, S Krogle

0945h **PIS01006L** Impactsites from the Gardnos impact structure – deformation patterns of different target lithologies: **E Kallesson**, T Jahren, H Dypvik

1030h **PIS01007L** The Cerro do Jarau impact structure, Southern Brazil: **A Crosta**, F Lourenço

1045h **PIS01008L** The Mjolnir impact crater – Geophysics and palaeogeography: **S Werner**, T Torvsik, M Smelror

1100h **PIS01009L** Insights into gravitational collapse and resurfing influence on marine sedimentary-target impact craters revealed by refined numerical simulations of the Mjolnir crater: **G Gisler**, F Tsikalas

1115h **PIS01010L** Shock effects in quartz – information on the stress conditions: **C Treppmann**

1130h **PIS01011L** Zirconium-bearing phases from suevite-like rocks in the Eyreville-B drill core, Chesapeake Bay impact structure: **H Belkin**, I Chou, J Horton Jr.

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**Wednesday 0830h**

**SES-07 Dynamics of sedimentary basins**

0830h **SES07001L** Role of the sediment routing system in basin analysis: **P Allen**, A Whittaker, A Whitchurch, J Fedele, C Paola

0900h **SES07002L** The recent evolution of the south-eastern Alpine chain inferred from river supplies: **C Stefani**, G Monegato, M Zattin

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Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium's oral presentations.
0915h SES07803L Particle-based methods in the modelling of turbidity currents and turbidites: O Al-Khayat, T Loeth, A Bruaset, H Langangen

0930h SES07804L Evolution and hydrocarbon of the Aquitaine basin (France) and the Pyrenees: R Bourrouilh

0945h SES07805L Sediments dynamics in a paratethys sea: Dacinian Basin (Late Neogene, Romania): D Jipa

1030h SES07806L Anomalous subsidence in intracontinental basins: C Heine, R Muller, B Steinbeger, T Torsvik

1045h SES07807L Tectonic inversion in the western Barents Sea: Constraints on the late Mesozoic – Cenozoic dynamics of the northern North Atlantic: K Leever, R Gabrielsen, J Faleide, I Grunlaeite

1100h SES07808L Multiphase cooling and exhumation of the Krkonose Piedmont Basin during Mesozoic – Cenozoic basin inversion based on apatite fission track analysis: K Martinek, M Svojka, J Filip

1115h SES07809L Cenozoic tectonic movements and geodynamic background of the South China Sea: L Wan, B Yao, N Wu, R Wan

1130h SES07810L 3D geometry and palaeogeography of the Paris Basin chalk (Cenomanian to Campanian) – tectonics and eustatic implications: E Lasseur, F Guilloucheau, C Robin, L Beccaletto

1145h SES07811L The examination of playa basins structural changes in central Iran: S Bouzari

SES07812P Cambrian-Ordovician transition in Valongo Anticline: Evidences of a continental rift in a Gondwana passive margin: H Couto, A Lourenço

SES07813P The reconstruction of the Devonian Pull-Apart Basin of Southern Ural, Russia: A Andreev

SES07814P Distribution of facies association in early Jurassic basin surrounded by carbonate platforms: B Rozic, A Smuc

SES07815P Subsidence-controlled development of a carbonate-platform-to-intrashelf-basin-transition – the Steinplatte carbonate complex (Late Triassic, Northern Calcareous Alps, Austria): B Kaufmann, W Piller

SES07816P Late Proterozoic and Phanerozoic sedimentation in Siberian platform regions: V Surkov, V Devyatov, T Divina, V Lotyshev, L Smirnov, V Staroseltev, K Staroseltev

SES07817P Use of high resolution stratigraphy techniques for hydrocarbons research in the Parana Basin, Brazil: A Sales Oliviera, R Marins Alvim Gama, E Pereira

SES07818P A numerical evaluation of the localisation of shortening during basin inversion: S Buiter, A Pfiffner

SES07819P Event deposits in the chaotically formations: P Maisadze

SES07820P Permo-Carboniferous sedimentary response to the northwestern margin of the tarim block to collisional orogeny of the southern Tianshan, NW China: J Luo, Z Che, C Wang

SES07821P U-Pb Ages of zircons and their tectonic implications in western Qinling Shan, China: Y Chen, H Zhang, D Li, J Zhou

SES07822P Palaeogeography at the Cenomanian-Turonian boundary in southern Central Tunisia: The basins of Gafsa area: H Abdallah, S Sassi, C Meister

SES07823P Palaeowind patterns during the Late Cretaceous on South-American platform: Evidence from aeolian deposits cross-strata of the Caiuá Desert (Bauru Basin): I Olmeda

SES07824P Sedimentary cycloths in the section of the lower carboniferous (the northwest limb of Moscow synclise): J Bigun

SES07825P Calcareous algae in the deep-water flysch deposits: The northern Carpathians case study: J Rajchel, J Golonka

SES07826P Lithostratigraphy of nigeria an-overview: K Shitta

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.
Wednesday 13 August – Late Morning

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The following symposia begin in this session. Some symposia continue on the next day. Next day presentations may be found in the next day section.

**Wednesday 1030h**

**EUR-01 Three billion years of geological history of the Baltic Shield and its shelf**

1030h **EUR01801L** The Archean of the Baltic (Fennoscandian) Shield: progress and problems: A Slabunov, V Balagansky, E Bibikova, P Hölttä, P Petlonen, P Sorjonen-Ward, O Volodichev

1100h **EUR01802L** Paleoproterozoic tectonics of the Fennoscandian Shield: Progress and problems: R Lahtinen

1130h **EUR01803L** Deep crustal structure and evolution of the Early Precambrian crust of the East European craton: M Mints, I Philippova, A Suleimanov, N Zamozhniyaya, P Babayants, Y Blokh, A Trusov

1145h **EUR01804L** Plate movement and reworking of the Fennoscandian shield during Archean-Paleoproterozoic based on paleomagnetic data: S Mertanen

1400h **EUR01805L** Geochronology of the Kola region (Fennoscandian Shield): T Bayanova, F Mitrofanov

1415h **EUR01806L** Single grain zircon U-Pb ages of Archean granitoids from Suomussalmi in western Karelian province: P Mikkola, H Huhma

1430h **EUR01807L** Geochronological constraints on the source of Neoarchean sanukitoid series in the western Karelian craton of the Baltic shield: E Heilimo, J Halla

1445h **EUR01808L** Gravity and seismic integrated inversion for the deep modelling of the Lapland Granulite Belt and adjacent structures, northern Baltic Shield: V Glaznev, F Mitrofanov

1500h **EUR01809L** Kilometre-scale shear fold and associated faults in the Keivy terrane: Implications for Early Precambrian geology in the northeastern Baltic shield: V Balagansky, A Raevsky, V Tyuremnn, S Mudruk

1515h **EUR01810L** U-Pb and Lu-Hf zircon data from the Rostoin Formation, south Norway: Characterizing the western margin of Baltica before the breakup of Rodinia: J Lamminen, J Nystuen, T Andersen

1600h **EUR01811L** Neoproterozoic microflora from the anchimetamorphic rocks of Malopolska Block – foreland of the East – European Platform: J Monika, A Tomas, A Tomas

**EUR01812P** Structure and evolution of the white sea rift system (North-east shelf of the Baltic Shield): V Zhuravlev, E Shipilov

**EUR01813P** Geochemistry of lower crustal xenoliths from the Baltic Shield records 2.4Ga and 360Ma plume-related and 2.0Ga subduction-related events: H Downes, A Markwick

**EUR01814P** Collision type of Early Precambrian HP metamorphic belt (Belomorian eclogite province of Fennoscandia shield, Northern Karelia, Russia): K Dokukina, A Konolov, T Kaulina

**EUR01815P** The Archean-Paleoproterozoic Boundary at the Karelian Craton: Evidence from SHRIMP-II U-Pb ion microprobe zircon dating (Lekhta Structure, Northern Karelia): V Zlobin, M Bogina

**EUR01816P** Isotope-geochemical evolution of the Archean-Paleoproterozoic mafic-ultramafic volcanism of the Baltic shield: M Bogina, E Sharkov

**EUR01817P** Water-Rock interaction in Vendian Sandy-Clayey rocks of the Mezen Syncline: A Malov

**EUR01818P** An active continental margin setting for the Transscandinavian igneous Belt – Geochemical evidence from ~1.8 Ga mafic volcanic rocks: K Appelquist, T Eliasson, B Ulf, Å Pettersson

**EUR01819P** A detrital zircon U-Pb provenance study of a post-Svecofennian conglomerate, Island of Suursaari: J Pokki, T Andersen, J Kohonen, T Ramo

**EUR01820P** Crustal growth in the Upper Jotun Nappe, SW Norway, constrained from in situ LA-ICPMS zircon Hf data, and the formation and evolution of the western edge of the Baltic shield: A Lundmark

**EUR01821P** Temporal and spatial distribution of Danapolonian (1.47-1.44 Ga) intra-continental magmatism in the Fennoscandian Shield: L Brander, U Söderlund

**EUR01822P** Evidence for preservation of crustal root beneath the Proterozoic Lapland-Kola orogen in the northern Fennoscandian shield derived from P- and S-wave velocity models of POLAR and HUKKA wide-angle reflection and refraction profiles and FIRE4 reflection transect: T Janik, E Kozlovskaya, P Heikkinen, J Yliiniemi, H Silvennoinen

**EUR01823P** Complex interpretation of the gravity and seismic data for investigation of the upper crust: A Zhirova, V Glaznev, A Raevsky

**EUR01824P** Possibilities Sm-Nd dating of sulphides: N Ekimo, T Bayanova

**EUR01825P** Palaeoproterozoic Pados Cr and PGE-bearing intrusion of the N-W Baltic Shield: New U-Pb and Sm-Nd data: S Shapkin, P Serov, T Bayanova, D Zhirov, F Mitrofanov

**EUR01826P** Sources and setting of c. 1.8 Ga magmatism in the Fennoscandian Shield: Examples from post-tectonic intrusions in southern Finland: H Rutanen, U Andersson, M Väisänen, Å Johansson, O Eklund

**EUR01827P** Heavy mineral assemblages in the Devonian and Quaternary deposits as kimberlite trace in Western part of the East-European platform: high-resolution heavy mineral analysis of siliciclastic sediments: V Hodireva, D Korpeckov

**Wednesday 1030h**

**GHZ-05 Remote sensing and GIS technologies for geohazard monitoring**

1030h Introduction

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium's oral presentations.
1045h GHZ05801L Use of remote sensing and GIS techniques for mitigation and relief action of the main geohazards concerns in Al-Hammad Area, south-east of Syria: M Dalati

1100h GHZ05802L Assessing the potential for regional groundwater-surface system contamination in an urbanized watershed using gis: M Kaufman, D Rogers, K Murray

1115h GHZ05803L Multi sensor satellite data for Monitoring of Natural Hazards: R Singh, M Kafatos

1130h GHZ05804L Applications of satellite interferometry techniques for landslide monitoring in the framework of GMES projects: Terrarima and PREVIEW: G Righini, V Pancioli, T Campolmi, C Del Ventisette, G Falorni, N Casagli

1145h GHZ05805L Trafficability assessment for flood hazards management in tropical regions using Virtual Globes imagery: R Kourdian, T Rousselin, G Lerouge

1400h GHZ05806L Desertification monitoring and archaeological perspectives from Jebel Bishri, Syria: M Lonqyist, M Torna, M Nunez, K Lonqyist, J Okkonen

1415h GHZ05807L Simulation of debris flows based on open source GIS: M Mergili, K Schratz, S Moreiras, M Thalhammer, J Stoetter, A Ostermann, W Fellin

1430h GHZ05808L GIS-Based landslide susceptibility mapping with comparisons of results from machine learning methods versus logistic regression in basin scale: S Bai, J Wang, G Lu, M Kanevski, A Pozdnoukhov

1445h GHZ05809L Remote Sensing and GIS technologies for landslide geohazard monitoring: D Zakhidova, A Abdurakhanov

1500h GHZ05810L Lidar (Light Detection and Ranging) survey of Serchio river basin: N Coscini, S Sadun, N Del Seppia, F Falaschi

1515h GHZ05811L Terrestrial laser scanner monitoring of the 2006 Eiger rockslide (Switzerland): T Oppikofer, M Jaboyedoff, H Keusen

1600h GHZ05812L Spatio-temporal ground displacements monitoring of the Coraligio landslide (Parma, Italy): A Ciulli, L Disperati, E Guastaldi, A Rindinella, S Virdis

1615h GHZ05813L Spatially and temporally probabilistic landslide hazard assessment in Bailongjiang River Basin: S Bai, J Wang, L Dong, F Zhang

1630h GHZ05814L Landslide monitoring with ERS and Envisat SAR data: V Pancioli, T Campolmi, G Righini, N Casagli

GHZ05815P Remote sensing and GIS applications in detecting geohazards in the Jazira area, West Iraq: F Siakain

GHZ05816P Estimation of mossy cover disturbance for Peatlands of the belomoro-kulyskoie plateau: T Orlov

GHZ05817P Approaches for the study of landslide areas in mountainous pilot areas of Uzbekistan using remote sensing data and GIS techniques: P Mavlyanov, D Zakhidova

GHZ05818P Geoenviromental modelling for the nature-friendly mining: A Lyubimova, M Soukhanov

GHZ05819P Monitoring of Valley Fault system and land subsidence in Metro Manila, Republic of the Philippines by InSAR and leveling survey: T Deguchi, Y Kinugasa, M Omura

GHZ05820P Interactive presentation of geological hazard map online: GeoHazardView-online: J Bandibas, W Koji, H Kato

GHZ05821P Using an observational database in the preliminary statistical analysis of debris flow runout and its application to inundation modeling in Watauga County, North Carolina, USA: A Witt, R Wooten, K Gillon, R Latham, T Douglas, S Fuemmerle, J Bauer

GHZ05822P High-resolution LIDAR topography as an essential tool in geohazards research: Examples from western Washington, USA: R Haugerud

GHZ05823P GIS-data database development and innovative RS analysis for strategic environmental assessment: A Lo Tauro

Wednesday 1030h HPP-07 Late Neoproterozoic orogenic belts and assembly of Gondwana

1030h HPP070801L The assembly of Gondwana: Palaeomagnetic constraints: P Sisarevsky

1100h HPP070802L New constraints on the assembly of the East African Orogen from northern Madagascar: D Schofield, R Thomas, B De Waele, R Tucker, G Walsh, K Goodenough, R Key, M Rabarimanana, J Rafahateo, M Ralison, T Randriamananjara

1115h HPP070803L A new perspective on the significance of the Ranotsara zone in central Madagascar: J Giese, G Schreurs, A Berger, M Herwegh, E Gnos

1130h HPP070804L Reactivation of the East African Orogen during final Gondwana assembly: Oblique convergence driving deep crustal extrusion?: B Hulscher, I Fitzsimons

1145h HPP070805L Geochronology of the neoproterozoic mianshan group in the cathaysia block-China and its tectonic significance: D Zhang, G Wu, Y Di, X Xu, X Zhang, Q Wang, H Huang

1400h HPP070806L Mechanically versus thermally driven orogens – contrasting styles along the Neoproterozoic East African Orogen: H Fritz, C Hauzenberger, V Tenczer, S Muhongo, G Hoinkes, E Wallbrecher

1415h HPP070807L Tectono-metamorphic evolution of the East African-Antarctic Orogen in Northern Mozambique and Droning Maud Land (East Antarctica): J Jacobs, R Thomas, B Bingen, A Engvik, M Horstwood, E Daudi

1430h HPP070808L Geochronology of the Mozambique Belt in north-eastern Tanzania: V Tenczer, C Hauzenberger, H Fritz, G Hoinkes, U Klötzi, S Muhongo, E Wallbrecher

1500h HPP07810L Tectonic evolution of the Pan-African Mozambique Belt in northern Mozambique: I Henderson, G Viola, B Bingen, B Thomas

1515h HPP07811L Apparent depositional ages of metacarbonates in the Mozambique Ocean between east and west Gondwana: M Satish-Kumar, T Miyamoto, Y Motoyoto, J Hermann, Y Osanai, H Kagami

1600h HPP07812L Constraining the timing of collision in the Sergipano Belt, NE-Brazil: U-Pb titanite and zircon ages of collisional granites: J Finoto Bueno, E Paiva de Oliveira

1615h HPP07813L Formation of a supercontinent: Framework of a super-resource: A Collins

1630h HPP07814L Neoproterozoic SHRIMP U-Pb zircon ages of Dokhan volcanics in the northern part of the eastern desert, Egypt: C Breitkreuz, H Eliwa, I Khalaf, K El Gameel, S Sergeev, A Larionov, U Hoffmann


HPP07816P Provenance of metasedimentary rocks as a fundamental tool to understand Late Neoproterozoic orogenic belts: The case of the Sergipano belt in South America: O Elson

HPP07817P Does the neoproterozoic – Early Cambrian Transbrasiliano Lithospheric Shear system delineates a collisional suture trace in South America?: C Canade de Araujo, T Saraiva dos Santos

HPP07818P Elemental and Sr-Nd isotope geochemistry: Implications on sources and processes for granulite formation of central Ribeira Fold Belt: T Bento dos Santos, J Munhá, C Tassini, P Fonseca, C Dias Neto

HPP07819P Further geological data on the Infracambrian(!)-Early Cambrian of the Cape Malaitano area (SW Sardinia, Italy): L Costamagna, G Crucian, M Franceschelli

HPP07820P U/Pb zircon ages from S-Tanzania along a traverse from lake Malawi to Masasi: C Hauzenberger, V Tenczer, A Bauernhofer, H Fritz, U Kloetzi, E Wallbrecher, S Muhongo

HPP07821P Project DELAM: Mid- to lower crustal expression of a partially delaminated orogen root recorded in the East African-Antarctic Orogen of northern Mozambique: J Jacobs, B Bernard, B Emmel, A Engvik, J Daud, J Kosler, R Thomas, J Wartho

Wednesday 1030h
IAE-06 Geoarchaeology and archaeometry
1030h IAE06801L Using microstructures and cathodoluminescence fabrics to make provenance analyses – a case study of marbles from Naxos: A Ebert, K Ramseyer, E Gnios, D Daniellle

1100h IAE06802L From chaos to a higher order? Approaches to soapstone provenance: T Heldal, Ø Jansen, T Grenne

1130h IAE06803L Microinclusions in slag and metals as indicators of mineral recourses of ancient cultures: V Zaykov, A Tairov, A Epimakhov, S Zadnikov

1145h IAE06804L Pliny the Elder and Sr-Nd radiogenic isotopes: Provenance determination of the mineral raw materials for Roman glass production: P Degryse

1400h IAE06805L Fingernails and diet: Stable isotope signatures of a marine hunting community from modern Uummannaq, North Greenland: B Buchardt

1430h IAE06806L Holocene river-side settlements and evolution of the River Rena, south-eastern Norway: A Balbo, P Persson

1445h IAE06807L Last glacial earth environmental changes based on pedological, sedimentological and tectonic evidences in prehistory sites of S. Korea: J Kim, D Yang

1500h IAE06808L A mediterranean bronze age trading centre in SE Sweden?: N Mörner, B Lind

IAE06809P Resource production capabilities of an Elyman Polity (approx. 800 to 475 BC, Monte Polizzo) western Sicily: An investigation of clay, building stones, and indigenous ceramics: H Chad, G Montana

IAE06810P Investigations on the provenance of white marbles by inclusion fluid chemistry: G Rantitsch, W Prochaska

IAE06811P Pietra ollare artefacts from Ėrvar Porat (Istria, Croatia): D Tlibiš, D Balen, Z Šimić-Kanaet, V Girardi Jurkić

IAE06812P The amber occurrences in the eastern Carpathians (Romania): C Ricman

Wednesday 1030h
IEI-26 Geoscience Information impromptu short talks and discussion

Wednesday 1030h
MPV-03 Volcanic eruptions: Chamber-, conduit-, and depositional processes and their implication for monitoring and hazard assessment

1030h MPV05801L Magma-country rock interaction during large mafic explosive eruptions: Evidence from colli albani (Central Italy): C Freda, M Gaeta, B Giaccio, F Marra, D Palladino, P Scarlato, G Sottile

1100h MPV05802L High-P High-T experiments of magma-carbonate interaction: Insights into the magmatic system at Merapi volcano, Indonesia: F Deegan, V Troll, C Freda, V Misit, J Chadwick

1115h MPV05803L Crustal volatiles remobilized by volcanoes?: J Chadwick, V Troll, F Deegan, C Siebe, C Freda

1130h MPV05804L Lateral collapses masked by nested volcanism: J CARRACEDO

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium's oral presentations.
1400h MPV05805L Damavand Volcanic System in Central Alborz mountains of Iran: A study on the possibility of a new eruption: M Zare, M Aryamanesh
1415h MPV05806L A possible volcanic hazard risk deduced from recent activity of the Gölcük volcano, SW Turkey: N Özgür, B Platevoet, O Eliot, S Scaillet, H Guillou, F Yagmurlu, A Poisson, K Yılmaz
1430h MPV05807L The 26 May 2006 magnitude 6.4 Yogyakarta earthquake south of Mt. Merapi volcano: Did lahar deposits amplify ground shaking and thus lead to the disaster?: T Walter
1445h MPV05808L Have we underestimated the distal volcanic hazard? Lessons from multidisciplinary investigations at Auckland, New Zeland: R Newnham, M Gehrels, K Dirks
1500h MPV05809L Tomographic imaging of the Long Valley caldera, California: A Tryggvason, H Benz
1515h MPV05810L Early warning system on active volcano through SAR interferometry: N Casagli, C Del Ventisette, L Guerri, F Mugnai, J Fortuny-Guasch, D Tarchi, D Leva, F Catanì
1530h MPV05811L Stromboli volcano erupts again on 27 February 2007: And magnetic field monitoring is a key part of the picture: C Del Negro, R Napoli, G Ganci, G Currenti, F Greco, D Scandura, A Sicali, G Budetta
1545h MPV05812L Magma on the move! seismic unrest at Uppötyppingar, North Iceland: K Jónsdóttir, A Tryggvason, B Lund, R Roberts, S Jakobsdottir, M Lindman, R Bodvarsson
MPV05813P Gas-hydrodynamic model of basalt explosions (based on experimental data): A Ozerov
MPV05814P The recent eruptive process of Young Sheveluch volcano, Kamchatka: O Girina, O Girina
MPV05815P Mercury (Hg) in the near-ground atmosphere of active volcanic edifices in Kamchatka: N Ozerova, A Ozerov
MPV05816P Mineral chemistry of the volcanic rocks from the Erçiyes and Hasandag Volcanoes, Central Anatolia: A Guctekin, N Koprubasi
MPV05817P Active volcanoes as emission point sources of atmospheric mercury: B Emanuela, A Aiuppa, F Parello, M Valenza, C Sergio, W Melanie, M Tamsin, P David
MPV05819P Determination of magma types from crystallization parameters based on petro chemical analysis of basaltic flows exposed in tauranmal ghat section: A Tejankar
MPV05820P First direct observation of the generation, trans-oceanic transport, and stranding of dacitic pumice rafts in the South Pacific: the August 2006 eruption of Home Reef, Tonga: S Master, R Vaughan, F Fransson
MPV05821P Current crustal deformation at volcanoes in Iceland: E Sturkell, P Einarsson, F Sigmundsson, B Ofeigsson, H Geirsson, R Pedersen, T Arnadottir, H Olafsson, E de Zeeuw-van Daløsen, A Linde, S Sacks, P LaFemina, C Pagli, T Villemín, H Rymer
MPV05822P CO₂ in basaltic to leucitic melts—experimental studies: H Zimmermann, J Holloway
MPV05823P Volcanic hazards map for El Misti Volcano: J Marínó, M Rivera, L Cacya, J Thouret, L Macedo, C Siebe, R Tilling

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.

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**Wednesday 13 August – Early Afternoon**

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The following symposia begin in this session. Some symposia continue on the next day. Next day presentations may be found in the next day section.

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**Wednesday 1400h**

**AAN-01 Antarctic geodynamic evolution and paleogeography**

1400h **AAN01801L** Granulite-facies rocks, Larsemann Hills, Prydz Bay, East Antarctica: New interpretations based on zircon U-Pb and whole rock Sm-Nd isotopes: C Carson, E Grew, R Maas, M Fanning, G Yaxley

1415h **AAN01802L** Major crust formation events and palaeotectonic settings in East Antarctica: E Mikhal'skiy

1430h **AAN01803L** Data from Himalayan Orogen support the Precambrian formation of East Antarctica: M Yoshida, B Upreti

1445h **AAN01804L** Provenience of ice-rafted debris offshore of East Antarctica and delimitation of source areas: T Williams, T Van de Flierdt, S Hemmings, S Brachfell, E Pierce, M Roy, S Goldstein

1500h **AAN01805L** Problems related to identification of continent-to-ocean boundary around the East Antarctic passive margin: G Leychenkov, J Guseva, V Gandyukhin

1515h **AAN01806L** Circum-Antarctic passive continental margins: Insights into geodynamic implications of continent-ocean transitions: K Golh

1600h **AAN01807L** Tectonic processes and deep structure of Pacific margin of Antarctic Peninsula (in the area of Bransfield Strait): T Yegorova, V Bakhmutov

1615h **AAN01808L** Uncovering the West Antarctic Rift System with recent aerogeophysical data over Ellsworth Land: F Ferraccioli, T Jordan, J Holt, D Blankenship, T Diehl, V Vaughan, H Corr

1630h **AAN01809L** Paleomagnetic results from the antarctica peninsula: No major deformation since late cretaceous: F Poblete, C Arriaga

**AAN01810P** Large-scale crustal layering in East Antarctica: Evidence from U – Pb study of inherited zircon in contaminated mantle derived melts: E Mikhal'skiy, B Belyatsky, S Seregev

**AAN01811P** New continental rift structure in Princess Elizabeth Land, East Antarctica: A Golynsky, D Golynsky, R Kurin

**AAN01812P** The Riiser-Larsen Sea (East Antarctica): Crustal structure, seismic stratigraphy and implications for tectonic history of the Southern Ocean: Y Guseva, G Leitchkenkov, G Griko, V Gandyukhin, M Sand

**AAN01813P** Non-volcanic continental margin off Wilkes Land (East Antarctica): Crustal structure and evolution: V Gandyukhin, G Leitchkenkov, Y Guseva, H Stagg, A Goncharov

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**AAN01814P** Targeting the gumburtsev subglacial mountains province hidden under the east Antarctic ice sheet with collaborative aerogeophysical research: F Ferraccioli, R Bell, M Studinger, D Damaske, C Finn, P Gogineni, D Braaten, T Jordan

**AAN01815P** Geodynamic evolution of the northern Shackleton Range, East Antarctica: constraints from combined U-Pb and Lu-Hf zircon isotope analyses: T Will, A Zeh, A Gerdes, H Frimmel, E Schmädicke

**AAN01816P** The amphibolite-facies maﬁc-to-ultramafic rocks from the dessent metamorphic complex (northern Victoria Land, Antarctica): New petrological and geochemical data from the mélangé along the Lanterman-Mariner suture: R Palmeri, S Sandrioni, G Godard, C Ricci

**AAN01817P** West Antarctic tectonics revealed through in-situ zircon U-Pb geochronology and Hf isotope geochemistry: M Flowerdew, I Millar, M Whitehouse, M Horstwood, M Fanning

**AAN01818P** International tectonic map of the Antarctic: A CGMW-IPY mapping project: G Griko, V Leitchkenkov, A Golynsky

**AAN01819P** Summary of the geology and tectonic evolution of the South Orkney Islands, Antarctica: M Flowerdew, T Riley, S Daly, P Leat

**AAN01820P** Petrologic, geochemical and genetic conditions of the volcanism generating the Dove Ridge (Scotia Sea, Antarctica): E Puga, A Alavez-Valero, J Galindo-Zaldivar, F Bohoyo, A Maldonado, F Gonzalez, I Somoza

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**Wednesday 1400h**

**CGC-11 Lacustrine records as archives of climate change**

1400h **CGC11801L** Sedimentary constraints on establishing timing and rates of climate change in non-varved lake records for the late Quaternary through Holocene in the western U.S.A.: J Smoot

1430h **CGC11802L** Late Quaternary history of a complex lake system in Ontario, Manitoba, and Minnesota: J Teller, T Mellors, Z Yang, A Noren, A Myrbo

1445h **CGC11803P** Research at Pingualuit Crater Lake, the “Crystal Eye of Nunavik” (Quebec, Canada): R Pienitz, S Haussmann, G St-Onge, V Salonen, P Francus, I Larocque, M Lavoie, W Vincent, M Lamothe

1500h **CGC11804L** Sedimentological evidences of a major drought in the Mid-Late Holocene of the Lake Maharlu, SW Iran: R Lak, F Fayazi, M Nakhai

1515h **CGC11805L** Late Quaternary distal tephrachronology throughout the northern hemisphere: How distal?: S Pye-O’Donnell, J Mangerud, J Svendsen, M Henriksen, J Lowe

1600h **CGC11806L** Multi-proxy palaeoclimate reconstruction of the Pianico interglacial (400 ka old) with special emphasis on a 1000 year intra-interglacial cool period: C Mangili, A Brauer, P Dulske, B Plessen, A Moscariello

1615h **CGC11807L** A palaeoecological record of climatic deterioration from middle to late Wisconsinan
time on the interior plateau of British Columbia, Canada: B Ward, M Geertsema, A Telka, R Mathewes

1630h CC11808L Mechanism of Late Glacial to Holocene clay mineral transport in a lacustrine to marine environment of a fjord system across the Southernmost Andes (53°S): J Wagner, O Baeza-Urrea, T Steinke, R Kilian

1645h CC11809L Centennial- to decadal-scale environmental shifts in and around lake Pannon (late Miocene): W Piller, M Harzhauser, A Kern, A Soliman, K Minati, D Danielopol, M Zuschin

1700h CC11810L Microfossils records of climatic and depositional environment changes in lower pliocene south caspian succession: E Aliyeva, D Huseynov, A Babazadeh, A Kaufman, D Nummedal

1715h CC11811L Magnetic susceptibility as the paleomonsoon proxy in the tropics: Geochemical evidence: R Shankar, A Warrier

1730h CC11812L Lake sediment carbon and nitrogen stable isotope records as indicators of climate change: P Vreca

CC11813P Late Holocene climatic record in the Colombian tropics: Data from a middle-mountain wet zone: P Muñoz, G Gorin

CC11814P Environmental change and the processes affecting the reduction of the Aso Caldera lake after the Last Glacial Age in central Kyushu, Japan: Y Hase, Y Miyabuchi, U Uchikoshiyama, N Sasaki, A Iwauchi

CC11815P A sedimentological view on the complex glacial and Holocene history of Lago Villarrica: K Heirman, S Lahousse, J Moernaut, M Van Daele, S Roberts, M De Batist, M Pino, R Brümmer, R Urrutia

CC11816P The early Holocene optimum inferred from a high-resolution pollen record of Huguangyang Maar Lake in southern China: H Lu, S Wang, J Liu, J Negendank

CC11817P High-resolution lake-level history of lake Nojiri, Japan, during the last 40,000 years: Y Inouchi

CC11818P Environmental implications of new stratigraphical and palinological data in the Terni basin (Central Italy) during the Middle Holocene: M Bertacchini, M Marchesini, S Marrelli

CC11819P Holocene Climate and vegetation changes recorded in lake sediments of Bilutu, Inner Mongolia, North China: Y Wang, Z Chi, P Yao

CC11820P The environment changes since the Late Quaternary in Juyuanhai area, Inner Mongolia: Z Chi, Y Wang, P Yao

CC11821P Lacustrine deposits of equivalent Fajan Formation, central Alborz, Iran: H Mohammadkhani, M Khazaie

CC11822P Chemostratigraphy of the cenozoic rocks of the Gandarela Basin, Brazil: M Pereira, H Nalini Jr, P Castro, R Proti, I Lima

Wednesday 1400h

EIG-02 Geological sources of global magnetic anomalies as interpreted from World Digital Magnetic Anomaly Map (WDMAM)

1400h EIG02801L Cleaning and leveling of marine magnetic track line data of the world: Y Quesnel, T Ishihara, M Catalan

1415h EIG02802L Lithosphere magnetic anomalies in the territory of Russia: T Litvinova, O Petrov, Y Erinchek

1430h EIG02803L Large scale geophysical domains from circum-Arctic magnetic and gravity anomalies – A framework for tectonic reconstructions: R Saltus, C Gaino, P Brown

1445h EIG02804L Magnetic susceptibility, Precambrian geology and Phanerozoic paleo-geography: C Reeves, D Ravat, I MacLeod

1515h EIG02805L Characteristics of crustal magnetization of Precambrian Shields: J Korhonen

1600h EIG02806L High frequency secular variation as revealed by 150 years of observatory data and global geomagnetic field models: C Demetrescu, V Dobrica

1630h EIG02807L Geomagnetic dipole intensity decrease during last decade: What is really comes from the Earth interior and what is artifact due to ignoring solar wave and corpuscular radiation variations: S Filippov, L Gromova, A Levitin, T Zvereva

1645h EIG02808L Multiple rapid polarity swings during the Matuyama-Brunhes (M-B) transition from two high-resolution loess-paleosol records: T Yang, M Hyodo, Z Yang, H Li, M Maeda

1700h EIG02809L Post-deposition pedogenic modification of magnetic susceptibility recording paleoclimatic signals: C an explanation of regional changes to Alaskan, Chinese and Siberian loess: X Liu, B Jan, B James, C Jiri

1715h EIG02810L World digital magnetic anomaly map 2008: J Korhonen, T WDMAM

EIG02811P Early plate tectonic evolution of the Central Atlantic Ocean: C Labails, J Olivet, D Aslanian, M Sahabi, W Roest, B Sichler, P Unternehr

EIG02812P North African magnetic anomaly field and the WDMAM model: M Hamoudi, Y Quesnel, V Lesur, M Manda, E Thébault, F Ramdani, N Bournas

EIG02813P Magnetization components of major WDMAM2007 anomaly sources in central fennoscandian shield: R Lahtinen, J Korhonen

EIG02814P Confirmation of middle-plenistocene red-clay and the preliminary research on its magnetostatigraphy, Nanjing: Z Yang, C Hu, X Yang

EIG02815P A galactic model of alternation of magnetic superchrons of normal and reversed polarity: A Kulinkovich, M Yakymchuk

EIG02816P A new look at spatial relationships between geomagnetic field reversal tracks and seismic shear wave velocity anomalies at the core-mantle boundary: M Smethurst, T Torsvik, B Steinberger, K Burke, T Redfield

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Wednesday 1400h

**GDP-08 Basin subsidence and mantle dynamics**

1400h GDP08801L Continental rifting with flat Moho: H Thybo, S Lyngsie, C Nielsen

1430h GDP08802L Structural style of formation of passive margins, insights from dynamical modelling: Implications for heatflow and subsidence history: R Huismans, C Beaumont

1500h GDP08803L Late Cretaceous foreland basin evolution across Colorado-Wyoming and its linkage with farallon plate subduction: S Liu, D Nummedal

1515h GDP08804L Methane on the Move: natural greenhouse gas emissions over geological time: B Horsfield

1600h GDP08805L Dynamic topography and Neogene uplift of Patagonia: B Guillaume, J Martinod, L Husson

1630h GDP08806L The hydrocarbon budget of the Mackenzie Basin (Canada): Generation, migration and surface losses: K Kroeger, R di Primo, B Horsfield

**GDP08807P** Subsidence of the Gulf of Lion continental margin (France): F Bache, J Olivet, C Gorini, M Rabineau, J Bzatan, D Aslanian

**GDP08808P** History and mantle-lithosphere dynamics of the Congo basin, central Africa: N Downey, M Gurnis, J Avouac

**GDP08809P** Linking deep structures and basin formation in the Barents Sea: S Clark, O Ritzmann, J Faleide, R Mjelde, K Leever, E Glorstad-Clark, R Gabrielsen, A Breivik

**GDP08810P** Link between the deep structure of the Norwegian continental margin and the location of the Storegga Slide, based on 3D gravity and thermal modelling: Y Maystrenko, M Scheck-Wenderoth

**GDP08811P** A comparison of paleo stress fields along the inverted margins of the Central European Basin System (CEBS): J Sippel, M Scheck-Wenderoth, A Saintot, M Heeremans, B Lewerenz

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**Wednesday 1400h**

**GTR-05 Microwave remote sensing – Part 1**

1400h GTR05801L TerraSAR-X supporting geological mapping in clouded regions: L Petrat, F Bandelow

1430h GTR05802L Detection of Surface Deformation related with CO$_2$ Injection by DInSAR at In Salah, Algeria: I Onuma, K Okada, S Okhawa

1445h GTR05803L Key techniques of PS InSAR in monitoring Dangxingqiu fault movement: J Zhang

1500h GTR05804L InSAR monitoring of landslides in Canada: V Singhroy, P Alasett

1515h GTR05805L InSAR techniques for supporting landslide investigations and mitigation: V Pincioli, T Campolmi, H Raetzo, N Casagli

1600h GTR05806L RADARSAT-1 archives data for dynamic earth and natural hazards: R Saint-Jean

1630h GTR05807L Remote sensing using interferometric real-aperture radar: R Norland

1645h GTR05808L Active rockslide in the Italian alps monitoring through ground-based interferometry: N Casagli, C Del Ventisette, G Antonello, J Fortuny-Guasch, D Tarchi, G Mannucci, L La Rocca, A Ballini, D Leva

1700h GTR05809L Spaceborne SAR analysis for landslides mapping: G Righini, C Del Ventisette, M Costantini, F Malvarosa, F Minati, P Putrino, M Ceriani, C Toffaloni, A Zacccone

1715h GTR05810L PSInSAR™ data for surface deformation monitoring: from research to large-scale analyses on a national level: A Ferretti, F Novalli, C Prati

1745h GTR05811L Ground deformation analysis in Umbria region, central Italy using the SBAS-DInSAR technique: G Zeni, F Guzzetti, F Ardizzzone, M Cardinalli, P Reichenbach, R Lanari, A Pepe, M Manunta

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1730h HPQ01812L Bone accumulators between the Scandinavian and Alpine ice shields of central Europe – the last Ice Age spotted hyenas: Mammoth scavengers, woolly rhino killers, horse hunters and cave bear/lion antagonists: C Diedrich

HPQ01813P The evolution of Persian Gulf Coasts since Mid-Holocene case study of Zohreh river Delta: M Gharibreza, A Motamed, R Emamjomeh, H Masoumi

HPQ01814P Coastal geology of the prodigiant plains of Quaternary sandy beach ridges in Santa Catarina State, southeastern Brazil: N Horn Filho

HPQ01815P Geomorphologic and sedimentologic aspects of Quaternary geology of the Santa Catarina coastal province, southeastern Brazil: N Horn Filho

HPQ01816P Stratigraphy and chronology of Late Quaternary floodplain sediments in a historic mining area: T Raab, K Hürkamp, J Vökel

HPQ01817P Plio-Pleistocene aeolian dust deposits in the Pannonian basin: Red clay and loess: G Varga, J Kovács

HPQ01818P Stratigraphic architecture and infill history of a (de)glaciated bedrock-valley in Stryn, western Norway: L Hansen, A Beylisch, V Burki, R S. Ellertsen, O Fredin, E Larsen, A Lyså, A Nesje, J Tønnesen

HPQ01819P Subsurface geology of Kansai International Airport: Sequence related to global glacial – interglacial cycles: K Takemura, N Kitada, T Fusudoi, K Nakaseko

HPQ01820P Neotectonic basement and stratigraphic characteristics around Kansai international airport (KIX), Osaka sedimentary basin, Japan based on integrated analysis of geophysical survey data: N Inoue, N Kitada, K Takemura

HPQ01821P Rates of valley incision in the European Alps approached by cosmogenic nuclides: M Fiebig, P Haeuselmann, K Stuewe, P Audra, D Fabel, B Grasemann, A Mihevc, D Sahy, T Wagner

HPQ01822P Younger Dryas glacimarine varved clay in the Middle Swedish End-Moraine Zone: Y Ståhl, M Johnson

HPQ01823P A Pleistocene marl prairie from equatorial East Africa – facies development and clues for coastal uplift: M Reuter, W Piller, B Berning, M Harzhauser, A Kroh

HPQ01824P Changes in the landscape of the Faroe Islands since the first settlements: L Andersen

HPQ01825P Magnetic signature of environmental change reflected by Pleistocene lacustrine sediments from the Nihewan Basin, North China: X Wang, R Lovlie, P Su, X Fan

HPQ01826P Using biofilm analysis in steep bedload mountain streams for detection of stable and mobile channel units – a new approach for analysis of bedload transport: D Gintz, A Beylich, B Zippel, K Laute

HPQ01827P Holocene and present-day sediment budget and relief development in Austfirdir (eastern Iceland): A Beylich, C Kneisel

HPQ01828P Sediment budgets in cold environments: The global SEDIBUD programme: A Beylich

HPQ01829P Stratigraphy around Kansai Airport and its properties (Reconstruction of the Osaka Group (Pliocene to Pleistocene) in the southern Osaka Basin, Japan: N Kitada, N Inoue, K Takemura, F Masuda, A Hayashida, T Tabata, T Emura

HPQ01830P The site of Santa Maria d’Agnano (Ostuni, Brindisi, Italy) Preliminary stratigraphic results: A Chakroun, A Fochesato, H Baills, D Coppola

HPQ01831P Sedimentary and geomorphologic evolution of two brazilian southeastern mountain river segments: C Lana, P Castro, L Kaut

Wednesday 1400h

HYH-05 Hydrogeological aspects of Quaternary geology and climate change

1400h HYH05801L Groundwater: Challenges and long term solutions: A Aureli

1430h HYH05802L Geochronology and arsenic concentration of the Pleistocene-Holocene aquifers in the central part of the Bengal Basin, Bangladesh: M Uddin, J Whitney, M Alam, A Ullah

1445h HYH05803L The influence of soil and bedrock on the quality of the groundwater in the province of Oulu, northern Finland: R Pietilä

1515h HYH05804L Norwegian aquifers and climate change: P Dimakis

1600h HYH05805L Climate-dependent dynamics of high-arctic submermafrost groundwater systems in Svalbard: S Haldorsen, M Heim, B Dale, J Landvik, M van der Ploeg, A Leijinstein, O Salvigen, J Hagen

1615h HYH05806L Paleo-climate of the Boise area, Idaho (USA) from the last glacial maximum to the present based on groundwater δ2H and δ18O compositions: A Mayo, M Schlegel, S Nelson, D Tingey

1630h HYH05807L Holocene dynamics of the salt-fresh groundwater interface under a sand island, Inhaca, Mozambique: L Vareet, S Haldorsen, A Leijinstein, F Cuamba

1645h HYH05808L Global climate changes in mediterranean anthropogenic as the core catalyst for creation of the regional aquifer systems in karst coastal zones: B Mijatovic

HYH05809P Sensitivity of wetlands to climate change and anthropogenic activities: C Auterives, L Aquilina, O Bour, M Davranche

HYH05810P The past, the present and the future of the Aral sea: B Pinhasov, T Pryadunenko

HYH05811P Tests for modelling the unsteady behaviour of a karstic aquifer: A Joodi, P Alberic, S Sizaret, B Binet, A Bruand

HYH05812P The Paganico holes (Lucca plain, Tuscany) produced by indiscriminate water pumping in a fragile hydrogeological context: M Dell’Ariego, R Gianoccini, A Puccinelli, D Lo Presti, G D’Amato Avanzi

HYH05813P 3D geological modelling of superficial deposits as a basis for 3D hydrogeological modelling: Utilising site investigation data from on and around a UK nuclear licensed site: N Smith, E Henderson

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.
HY05814P Pore water quality existing within Alluvial marine clay at Nakagawa lowland in Kanto Plain, central Japan: M Uchiyama, A Inamura, T Nakashishi, K Kimura

HY05815P The groundwater flow system and hydrogeological structure based on the Quaternary and tephr stratigraphy in the northern foothill of Mount Fuji, central Japan: T Uchiyama, S Koshimizu

Wednesday 1400h

HY09 International perspectives on karst aquifers and water resources

1400h HY090101 The classification and origin of heterogeneity of karst aquifers: D Yuan

1415h HY090202 Modeling the hydraulic response of a first-magnitude spring in the Floridan Aquifer: R Green, L Yu, K Hatfield, S Williams

1430h HY090303 Discharge analysis and potential of Reshen Karstic Spring (Sharazoor Plain – Iraqi Kurdistan Region): S Ali, Z Stevanovic, M Al-Jabbari

1445h HY090404 Study on characteristics of aquifer media of Qinnuguan karst subterranean river system, Chongqing, China: P Yang, J Luo, Q He, Y Kuang, W Yuan

1500h HY090503 Methodological approach for contamination risk assessment in carbonate aquifers: J Via, B Andreo, M Perles

1515h HY090606 Karst groundwater use in the Carpathian-Balkan region: Z Stevanovic

1600h HY090709 Karst spring discharge as indicator of droughts: F Fiorillo

1645h HY090810 Mining activities and its influence on the levels of pH and alkalinity in fluvial waters: E Fritzensons, L Mantovani, A Gondim, A Chaves Neto

1715h HY090912 Role of superficial formations in the recharge processes of a chalk karstified aquifer: J Brown, J Dupont, J Roder, A Motelay, N Masseri, A Jardani

HY091303 Superficial drain from takiks of Usturt plateau as a source for storage of drinking water: G Mavlyanov

HY091404 Karst aquifer protection of the Nandong subterranean stream, Mengzi, Yunnan, China based on hydrogeological analyses: G Jiang

HY091505 Study on the heterogeneity of water resources in a typical peak cluster depression karst area in Yunnan, China: F Guo

HY091707 Study of the hydrodynamic and hydrochemical evolution of the carbonate aquifer Águilas-Guinchó over a prolonged period of pumped extraction (Seville, Spain): S Martinez-Rosillo, M Rodríguez-Rodriguez, J López-Geta

HY091808 The relationship between stalagmite growth rate and carbon and oxygen isotope records from stalagmite D4 and its interpretation: X Zhu, M Zhang, H Cheng, Y Lin, J Qin

HY091909 Isotopic and hydrochemical investigation of groundwater salination in a coastal aquifer system; Milas Basin, SW Turkey: I Barut, B Alpar

Wednesday 1400h

IEE-03 Earth system geoscience education

1400h IEE030101 Earth system geoscience education: How broad?: P Reitan

1415h IEE030202 How can we describe the mental model on water cycle?: P Gonçalves, N Sicca

1430h IEE030303 Using action based research teams to foster constructivist approaches to reform undergraduate college earth system science teaching: G Krooked, D Shepardson

1445h IEE030404 The “Rock Cycle” Game: A tool to stimulate geosciences teaching: C Carneiro, O Lopes

1500h IEE030505 The Earth’s Life Support System (ELSS): Implications, limitations and changes and impacts: M Hasan

1515h IEE030606 Geologic problem solving in the field: Analysis of field navigation and mapping by advanced undergraduates: R Balliet, E Rigs

1600h IEE030707 Design, implementation, and assessment of a field-based, constructivist geoscience teacher education institute: P Llerandi-Román

1615h IEE030808 Optimizing the Bretherton diagram to improve visual understanding: J Wandersee, R Clary

IEE030909 Exploring student metal model of the real moon motion trajectory relative to the sun: C Hsiao, C Chang, T Yeh

IEE031000 The development of a new and safe extraction method for radiolarian and its application at junior high school and club extracurricular activities in Japan: H Hashimoto, M Nurata, H Nishimura, T Fujioka

IEE031101 StatoilHydro School, EuRth school Competence development in StatoilHydro: M Haga

IEE031202 Earth class: Earth science on education and in every day life of society: L Fernandes, F Maciel Pinto, B Jeiss, F Felicio, A Belem, D Schemiko, G Mota, J Dums, J Ribeiro, L Silva, M Besser, M Ferraz, N Gabilan, E Oliveira

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Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.
Wednesday 13 August – Late Afternoon

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The following symposia begin in this session. Some symposia continue on the next day. Next day presentations may be found in the next day section.

Wednesday 1600h
IEE-04 Impact and value of geological knowledge
1600h IEE04801L Impact and value of geological knowledge for EU-policy making: P Christmann
1615h IEE04802L The economic impacts and wider social benefits of national geoscience information datasets: R Hughes

1645h IEE04803L Economic impact of the geoscience sector in Ireland: P Mcardle
1715h IEE04804L Tellus: Bringing science communication down to earth: M Cowan
1730h IEE04805L Uranium exploration, NGOs, and local communities. The origin, anatomy and consequences of a new challenge for mining industry in Finland: T Eerola
1EE04806P Analysis of the contribution of survey area on the related industries of geoscience and mineral resources: E Ahn, S Kim
1EE04807P Public recognition on geosciences and its outcome in Korea: S Kim, C Kim, E Ahn, J Lee, O Lee
1EE04808P The case study of setting the priority of geo-technology R&D projects using technology cluster analysis: O Lee
1EE04809P The effect of geo-technology R&D investment using input-output analysis: O Lee

Poster presentations are held on the first day that a symposium runs and are listed immediately after that symposium’s oral presentations.
Wednesday 13 August – Posters

<table>
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The following symposia begin in this session. Some symposia continue on the next day. Next day presentations may be found in the next day section.

Wednesday 0800h–1900h
AAB-01 Arctic and Antarctic records of deglaciation since the Last Glacial Maximum: Processes, timing and causes

AAB01810P Converging in-situ cosmogenic radionuclide and radiocarbon constraints on last glacial maximum ice sheet fluctuations, northern Andoya, North Norway: K Dahlgren, D Fabel, A Stroeven, K Vorren, T Vorren

AAB01811P Modern warming climatic and oceanographic record of laminated diatom ooze sediments from the eastern basin of Barents Strait, the northern Antarctic Peninsula: K Yoo, H Yoon, Y Bak, Y Lee

AAB01812P Late quaternary sedimentation in the inland seas and great lakes of North-West European: A Rybalko

AAB01813P New information on the deglacial history of the northern Barents Sea from marine data: K Hogan, J Dowdeswell

AAB01814P Geomorphic evidence for grounding line retreat in the Amundsen Sea Embayment and significance for west Antarctic deglaciation: A Graham, K Larter, C Hillenbrand, J Smith, K Gohl, G Kuhn

AAB01815P Eastward early Holocene glacial retreat of the Québec-Labrador Ice Sector (QLIS): Lac Guillaume-Delisle case study: C Lavoie, M Allard, P Hill, D Duhamel, P Lajeunesse

Wednesday 0800h–1900h
EIE-05 Electromagnetic petroleum exploration

EIE05806P Express-technology of direct searching and prospecting of oil and gas accumulations by geoelectric methods: M Yakymchuk, S Levashov, I Korchagin

EIE05807P Volume electromagnetic reconstruction of the geological medium in the tCSEM technology: G Trigubovich

Wednesday 0800h–1900h
EUR-15 Neogene of the Mediterranean: An “ocean laboratory”

EUR15811P Controls on canyon formation and evolution: The ebro margin: R Urgeles, B De Mol, A Camerlenghi

EUR15812P Middle miocene biostratigraphy in Vojvodina, northern Serbia: V Gagic, G Bogicevic

EUR15813P Organic matter of neogene sediments in central Crete (Greece), as source of biogenic methane: N Pasadakis, E Dagonuaki, A Zellidis, G Papatheodorou, E Manutsooglu

EUR15814P Calcareous plankton events and climate variability during late Zanclean in the eastern Mediterranean (Pissouri basin, Cyprus): M Triantaphyllou, A Antonarakou, L Lourens, P Ziveri, E Tsolakis, S Tsaila-Monopoli, G Theodorou, M Dermitzakis, G Kontokiotis, E Konstantinidou, M Athanasiou

EUR15815P Paleogeography of Sarmatian time of Eastern Georgia (Caucasus): K Koiva, L Maisuradze, I Shatilova, L Shubitidze, S Spezzaferri, A Strasser, G Tlashadze


Wednesday 0800h–1900h
GAH-03 Exploration and assessment of gas hydrates

GAH03807P Theory and application to characterization the gas hydrate reservoir: U Tinivella, M Loreto, F Accaino

GAH03808P Hydrocarbons in shallow sediments of the eastern deep-water Ulleung Basin, East Sea: B Ryu, M Riedel, J Kim, R Hyndman, Y Lee

GAH03809P PP and PS wave velocity estimation for gas hydrate area in the Ulleung Basin using wide-angle multi-component OBS data: B Kim, N Koo, Y Kim, D Yoo

GAH03810P Multi-scaled seismic approaches for gas hydrate exploration in the Ulleung Basin: N Koo, D Yoo, W Kim, B Kim, D Kang, S Cheong, Y Kim, H Lee, K Park

GAH03811P High resolution seafloor environmental characterization of methane seeps in the Mississippi canyon near Atwater valley 13/14, Gulf of Mexico: J Gardner, P Hart, R Hagen, M Czarnecki, C Nishimura, D Hutchinson

Wednesday 0800h–1900h
GET-03 Water–rock interaction

GET03813P Aspects concerning acid mine drainage in the area of the sedimentary-volcanic deposits from Balan (Romania): I Mihailescu

GET03814P Alteration of igneous rocks from seamounts and oceanic intraplate rises: V Kurnosov

GET03815P Geothermometer applications used for estimation of the reservoir temperature in Ladik (Samsun) hot water spring, Turkey: E Hatipoolu, F Gültekin

GET03816P The dammed lake of Bicaz (Roumania) as a sink for trace metals from the Bistrita mining district: H Kasper, G Nathalie, C Cocirita

GET03817P Implications of metal-rich CI-SO4-type thermal water of the Tamagawa hot spring, northeast Japan: A window of magmatic hydrothermal system: H Satoh, D Ishiyama, T Mizuta, M Yamamoto, T Nakano, A Ando

GET03818P Hydrogeochronology and Hydrogeological studies in the Alasehir geothermal areas, Turkey: A Bulbul, T Ozen, G Tarcan

GET03819P Dawsonite-bearing sandstone in Songliao and Hailaer basin, China: A natural analogues for CO2 sequestration in deep-saline aquifers: L Liu, Y Gao, X Qu, X Peng, N Liu
GET03820P The research of hydrothermal experiment for dawsonite sandstones: X Qu, L Liu, N Liu
GET03821P CO2 miscible flooding at different conditions using Saudi crude oils: E Shokir, A AlQuraishi, M Ámro, A Al-Nutaifi
GET03822P Low enthalpy geothermal energy in fractured rock aquifers: H Liebel, B Frengstad, R Kalskin Ramstad, B Bratli

Wednesday 0800h–1900h

GHZ-12 Converting geosciences knowledge into action for natural hazard reduction: Lessons from multidisciplinary research
GHZ12907P Landslides in the Andean region-standards and guidelines prepared by the seven geological surveys: M Gemman, R Hermanns
GHZ12908P Communication as a means of reducing vulnerability to geological hazards: The case of the Montalban-La Ceibita Sub-basins, Municipality of Campo Elias, Merida, Venezuela: R Valladares, C Communications Team
GHZ12909P Landslides in Ireland and the Irish Landslide Working Group: V Koenraad, R Creighton, X Pellicer, C McKeon
GHZ12910P Guidelines for the preparation, representation and awareness building of geological hazard maps: C Hickson, M Hazard Mapping Team

Wednesday 0800h–1900h

GTR-05 Microwave remote sensing
GTR05818P The D-InSAR technique for the land subsidence monitoring: G Yao, J Mu

Wednesday 0800h–1900h

HPQ-04 Quaternary palaeo-ice streams of the northern and southern hemisphere
HPQ04906P Dynamics, morphogenesis and deglaciation of the scandinavian ice sheet: On the way of the new paradigm: A Bitinas
HPQ04908P Investigating controls on the location of Laurentide palaeo-ice streams: M Winsborrow, C Clark, C Stokes
HPQ04909P The Andfjorden palaeo-ice stream, North Norwegian continental margin; an important path for ice flow during the Last Glacial Maximum: L Plassen, D Ottesen, C Clark, K Svindland
HPQ04910P Extreme subglacial sediment transport and punctuated ice delivery to the North Atlantic – characteristics of the Norwegian Channel Ice Stream: A Nygård, H Sejrup, H Hafliåsón

Wednesday 0800h–1900h

IEE-01 General contributions to geoscience education and ethics
IEE01807P Joint master degree program: Role of geological disciplines. On an example of the environmental faculty, Russian Peoples University Friendship: E Golovanova, M Nekrasova
IEE01808P The analysis of the Russian market of educational service in the field of geoscience: E Kondrateva, M Nekrasova
IEE01809P Fieldwork in earth sciences education: A research contribution for improving school practices: L Marques, L Nunes, D Rebelo, C Vazconcelos, M Morgado, J Praia
IEE01810P Science-Technology-Society approach of the Earth Sciences’ curriculum: L Marques, L Nunes, E Marques
IEE01811P Epistemological dimension of the geology contents in the science curriculum: L Marques, M Morgado, D Rebelo, L Nunes

Wednesday 0800h–1900h

MGG-05 Quantitative aspects of medical mineralogy
MGG05909P Characterization of fossil bone minerals using high resolution powder x-ray diffraction: H Kuleci, M Dogan, H Schleicher, P Ballirano, A Dogan
MGG05910P Crystal chemical characterization of fibrous erionite from Rome, Oregon, USA: P Ballirano, G Andreozzi, M Dogan, A Dogan

Wednesday 0800h–1900h

MPM-12 New developments in microbeam techniques
MPM12806P Femtosecond laser ablation of garnets and quartz and Implications for micro-geochemistry and geochronology: D Silva, A Cotta, E Rodriguez, C de Souza Filho
MPM12807P Experience of the high-speed monitoring of $^{14}C/^{12}C$ isotope ratio in schungite by LA-ICPMS technique: I Kapitonov, E Prilepsky, K Lokhov, S Sergeev
MPM12808P Elemental composition of gabbro pegmatite and olivine cumulate rocks from a layered intrusion: A Almohandis

Wednesday 0800h–1900h

MPN-12 Sederholm symposium on high-grade metamorphism, crustal melting, migmatites and granites
MPN12826P Importance of magmatism in formation of continental crust: D Shengelia, I Gamkrelidze, T Tsutsunava, G Chichinadze, L Shubitidze, K Vardanashvili, N Maisuradze
MPN12827P Paleoprotoreozoic eclogitized gabbroids the Belomorian province, Fennoscandian shield: O Volodichev, A Slabanov
MPN12828P Eclogitized ultramafic cumulate from a WBP suite, Variscan NE Sardinia: OIB-like asthenospher source with memory of kimerlite II-lamproite-type subcontinental lithospheric mantle: G Cruciani, A Dini, M Franceschelli, M Puxeddu, D Utzeri
MPN12829P Geochemical evidences of the petrogenesis of a mixed mantle-crustal source and evolution at tiquishuan eclogite in the northern Jiangsu province: L Huiming, W Yinx, C Daogong, L Jianhua

MPN12830P New garnet-biotite thermometry data from the Olkhon series (Priolchonjke area, W’ Lake Baikal, Russia): C Dietl

MPN12831P Magmatism, structural and metamorphic characterization in a sector from the NW Variscan Iberian orogen (northern Portugal): A preliminary insight: M Ribeiro, H Sant’ovaia, A Dória

MPN12832P Structural frame of the Variscan migmatites in Sardinia (Italy): F Elter, M Padovano

MPN12833P General shear deformation in the Variscan migmatites of NE Sardinia (Italy): Preliminary data: M Padovano

MPN12834P HT shear zones related to pluton emplacement: An example from Elba Island (Tuscany, Italy): F Menna, G Nirta, G Francesca, G Principi, E Pandeli

MPN12835P High-grade metamorphism and partial melting of granulite facies para- and orthogneisses surrounding the Rogaland complex, Norway: K Druepele, H Franke, S Brandt

MPN12836P Characteristics and genesis of inhomogeneous mafic enclaves in granites of SE China: Z Peng, G Chen, R Grapes, W Zhuang

MPN12837P Petrology and geochemistry of granulitic xenoliths in Neogene basalts from Oranie: Implications for the lower crustal composition in northwest Algeria: N Remaci-Benoua, M Gerbe, J Cottin, C Perrache

MPN12838P The petrochemistry characteristics and petrogenesis of peraluminous granite in Tibet: Z Liao, X Mo, G Pan, D Zhu, L Wang, Z Zhao, Q Gen, X Xiong, G Dong

MPN12839P In the footsteps of Sederholm – some outcrops in southern Finland: P Sorjonen-Ward, N Oliver

MPN12840P Viscous segregation and development of migmatite texture: K Miyazaki

MPN12841P Triangular-shaped crystals and conjugate proto-shear bands: Microstructural criteria of submagmatic deformation in a syn-kinematic pluton: N Vegas, J Tubia, J Esteban, J Cuevas

MPN12842P Mechanism of formation of pores and voids in unconventional reservoirs at great depths in the crystalline basement: L Srdikova, V Izotov

Wednesday 0800h–1900h

MPV06 The construction/destruction of magmatic and volcanic systems: New insights into magma-ectectonic and volcano-tectonic processes in the Earth’s crust

MPV0611P Magmatism of convergent boundary plates of Caucasus: A Ismail-Zadeh

MPV0612P Dome structures above sills and saucer-shaped sills: insights from experimental modelling: O Galland, S Planken, E Neumann, A Matthe-Sorensen

MPV0613P Frequency-size distribution of monogenetic volcanoes within the Trans Mexican Volcanic Belt (TMVB): Relationship with shallow instrumental seismicity: R Pérez-López, J Dóniz-Páez, M Rodríguez-Pascua, J Giner-Robles, V Garduño-Monroy, C Romero-Ruiz

MPV0614P What are the feeders of sills? Insights from field observations, geochemistry and experimental modeling: C Galerne, O Galland, E Neumann, S Planken

MPV0615P The investigation of Kýplá dome structure in southern part of Isparta Angle, SW Turkey: Z Kamaci, N Ozgur, F Yagmurlu, C Sari, M Senturk, C Çiftci

MPV0616P Numerical modelling of shallow hydraulic fracturing: Application to the formation of saucer-shaped fractures: M Niebling, G Olivier, P Sverre, F Eirik G., M Anders

MPV0617P Granite emplacement in thrust flats and ramps: E Ferre, O Galland, T Kalakay, D Montanari

MPV0618P Formation and propagation of caldera ring-faults constrained by analogue experiments: S Burchardt, T Walter

Wednesday 0800h–1900h

MRD-01 General contributions to mineral deposits

MRD01829P Spatial statistical regularities of ore deposits distribution in global and regional scales: P Sobolev, D Rundquist

MRD01830P Cationic Guar Gum as a depressor of Gangue in the froth flotation of Pyritic Lead-Zinc-Copper Ores from the Hindustan Zinc Ltd., Udaipur India: A Singh

MRD01831P Amirnane deposit: A sedimentary-exhalative barite (Pb-Cu) deposit in Central Alborz, northern Iran: T Jafari, M Ghaderi, N Rashidinejad-Orman, E Rastad

MRD01832P Composition of Au-transporting ore fluids of orogenic deposits from an internally consistent physical-chemical dataset of fluid inclusions: P Garofalo

MRD01833P Different textural occurrences of Greenockite (CdS): A Mogessie, F Gallien, F Bernhard, C Bauer, B Castro de Machuca, E Bjerg

MRD01834P Experimental study on the hydrothermal geochemistry of gold and silver deposition: The formation mechanism of epithermal gold-silver deposits: K Konez, T Yokoyama, A Imai, K Watanabe

MRD01835P Geological and economic modelling of replacing import and of exporting rare-metal resources: L Veremeeva, D Pokatea, E Levchenko, E Kalish

MRD01836P Gold-platinoid deposits of Northern Urals: S Kuznetsov, M Tarbaev

MRD01837P Gomish-tappeh: An example of epithermal base metal vein mineralization in southwest of Qeydar, NW Iran: T Salehi, M Ghaderi, N Rashidinejad-Orman

MRD01838P Graphitized metamorphic rocks of the Khanka terrane (Primorye Russian Far East) as a new source of noble metals: A Khanchuk, L Plyusina

MRD01839P Implication resulting from the study of fluid inclusion in the shear zone-type gold mineralization from southwestern of Sanandaj-Sirjan zone (west of Iran): F Paydar, N Abedian, B Borna

MRD01840P Intermediate to high sulfidation mineralization at Triades-Galana, Milos Island, Greece: Hydrothermal alteration and isotope geochemistry: R Marschik, T Bauer, A Hensler, N Skarpelis, S Hözl
MRD01841P Metasedimentary rock hosted Au-base metal mineralization in the Workamba area, central Tigray, northern Ethiopia: S Gebresillassie, R Marschik, S Holzl, K Sifeta

MRD01842P MR Diversification of mineral resource supply based on interdependence of mineral producing and consuming countries: M Bezhanova, S Bezhanov

MRD01843P On the sources of copper in cupriferous sandstones and sources of manganese and on perspectives of it in the central Kazakhstan: A Abeuov

MRD01844P On the three metallogenic systems in the Taishang mountains, north China: S Li, H Zhang, X Zhang, Y Cao, J Luo, J Zhang, Z Li, C Ao, J Song, J Song, X Liu

MRD01845P Prospects of geological and commercial reassessment of strontium deposits and ore manifestations of Russia in new economic conditions: E Levchenko, E Kalish

MRD01846P The arãês gold deposit, Mato Grosso state – Brazil: C Martinelli

MRD01847P The Geology and ore genesis of lead and zinc mineralization in Central Alborz, north of Tehran/Iran: F Sabahi, M Mehrpou, A Babakhani

MRD01848P The Sarilakhskoe and Sentachanskoe gold-antimony deposits: Stable isotopes and fluid inclusions: O Vikentyeva, N Bortnikov, G Gamyanin, V Proko'ev

MRD01849P The Sb-Hg deposit of Wadley (San Luis Potosi, Mexico) revisited: New genetic ideas: J Trilla, G Levresse, E Macuñaro, D Banks, R Corona-Esquível

MRD01850P The stable isotope study of Chipu Zn-Pb deposit: C Zhang, J Mao, J Yu, H Li

MRD01851P Upper Cretaceous carbonate hosted zinc – lead – barite deposits in the Northern Thrust Zone, Northern Iraq, petrography and geochemistry: S Awadh, H Habib, K Al-Bassam

MRD01852P Strategic metals, high-tech metals, environmentally green metals: A convergence: C Hocquard, Y Deschamps

MRD01853P Stages of mineralization in the Pb-Zn-(Ag) deposits in the Madan ore field: R Vassileva

MRD01854P Opaque minerals of Albania, ore microscopy and microprobe data: A Çina

Wednesday 0800h–1900h
MRD-05 Results of First Global Mineral Resource Assessment and other large-region assessment studies

MRD05810P Metallogenic map of the geodynamic systems of the pulsating expanding Earth scale 1:15000000: M Krutoyarskiy

MRD05811P Stratabound mineralizations in French black shales from Precambrian to Tertiary, a target for the future exploration strategies: I Salpeter

MRD05812P The application of two mineral quantitative assessment methods in east Tianshan of China: K Xiao, J Ding, J Tang, X Zhang

Wednesday 0800h–1900h
MRD-14 Ophiolites, greenstone belts and ore deposits

MRD14811P Whole-rock and Mineral Composition of Abyssal Peridotites from Harmançak Area, Bursa, NW-Turkey: O Karslı, I Uysal, A Sen

MRD14812P The behaviour of platinum group elements during melting processes in the Earth’s upper mantle: N Koprubası, E Aldanmaz

MRD14813P Geology and isotopes geochemistry of Tutulca (Eskisehir) magnetite deposits: A Yilmaz

MRD14814P Petrological and geochemical characteristics of Sahneh ultramafic rocks, west of Iran: R Zarei Sahamieh

MRD14815P Central Iranian ophiolitic belt: Implications for back-arc oceanic basins: I Monsef, H Shafai Moghadam, M Rahgoshay, H Whitechurch

MRD14816P Geochemistry of the peridotites, Namran district, NE Turkey: H Kadayıç, H Kolyalı

MRD14817P Paleo-Tethyan ophiolite and the plate tectonic regime in east Kunlun, NE Tibetan plateau: J Yang, R Shi, X Wang, C Wu, R Paul T.

MRD14818P Precambrian ophiolites of Southeastern Brazil: First U-Pb zircon ages from plagiogranites and gabbros: G Queiroga, A Pedrosa-Saores, C Noce, F Alkmin, M Pimentel, E Dantas, I Dussin, M Martins

MRD14819P Pre-uralides of the geneane uplift (polar uralis): A Soboleva, K Kulikova

MRD14820P Recognition of high – Mg Andesite (HMA) in the Neoarchean Greenstone Belt of Wutai Mountain Area: C Liu, J Deng, D Li, J Zhou, Z Zhao, Z Sun, F Zhao, S Su

Wednesday 0800h–1900h
SES-05 Dynamics of complex intracontinental basins

SES05811P Constructing the curve of relative sea level changes: E Kurina

SES05812P Differential tectonic deformation of Longmen Mountain thrust belt, western Sichuan Basin, China: L Tang, K Yang, W Jin, G Wan, Z L, Y Yu

SES05813P The interrelations of tectonism and sedimentation in the Miocene deposits of Sepulveda-Ayllón sub-basin: J Luengo, F Nozal, M Montes, I Armenteros, F Lopez-Olmedo

SES05814P Research of the Mesozoic-Cenozoic polymorphic prototype basin’s superimposed characteristics and their evolution in Songliao Basin: Z Li, D Ying, H Li

SES05815P Deformation between 1D well data and 3D reflection seismics – prediction across the gap: C Krawczyk, D Tanner, T Lohr, O Oncken

SES05816P Buntsandstein unconformities and high-resolution base-level cycles: Implications for the evolution of the Central European Basin: D Szurilies

SES05817P High-resolution isotope stratigraphy: Preliminary data from the Devonian Parana Basin: E Pereira, M Pessoa de Souza, R Rodrigues
Thursday 14 August – Early Morning

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**Thursday 0830h**

**AAB-01 Arctic and Antarctic records of deglaciation since the Last Glacial Maximum: Processes, timing and causes**

0830h **AAB01901L** The onshore record of Antarctic deglaciation from geomorphology and cosmogenic isotope analysis: M Bentley

0900h **AAB01902L** Palaeo-ice dynamics of the southern Barents Sea area reconstructed from onshore and offshore glacial geomorphology: M Winsborrow, K Andreason, G Corner, J Laberg

0915h **AAB01903L** Retreat of the Amery ice shelf drainage system during the last glacial cycle: A review: P O’Brien, A Post, M Hemer, M Craven

0930h **AAB01904L** Post-LGM marine ice sheet retreat in West Antarctica and the Antarctic Peninsula, timing and causes: J Anderson

0945h **AAB01905L** A late (17.5-15.5 ka BP) two-phased ice advance of the British Ice Sheet into the northern North Sea: A Nygård, H Sejrup, H Hafldason, I Mardal

1030h **AAB01906L** Ice shelf glaciation in the arctic ocean and its collapse: N Larsen, P Möller, H Linge, J Van der Meer, J Olsen, K Kjær, S Funder

1100h **AAB01907L** Chronologic constraints on deglaciation of the Antarctic Continental shelf, A review of radiocarbon methods and applications: E Domack, B Rosenheim, A Leventer

1130h **AAB01908L** Extent and dynamics of ice on the southeast Pacific margin of West Antarctica during the Last Glacial Maximum, and its subsequent retreat history: R Larter, C Hillenbrand, J Smith, A Graham, T Deen, J Dowdeswell, J Evans, K Gohl, K Kuhn, C O’Cofaigh, C Pubsey

1145h **AAB01909L** Quantitative provenance analyses of ANDRILL (AND-1B) cores: Constraints on the late oscillations of the west antarctic ice sheet across the western Ross embayment: F Talarico, R Powell, R McKay, S Sandroni

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**Thursday 0830h**

**CGC-12 The challenge of the Younger Dryas?**

0830h **CGC12901L** Synchronicity and sensitivity of alpine and continental glacial fluctuations to global climatic changes during the Younger Dryas; implications for the cause of abrupt global climate changes: D Easterbrook

0845h **CGC12902L** Testing the synchronicity of events between Greenland and Scotland during GS-1 using annually-resolved glaciolacustrine sediments: A Palmer, J Lowe, J Rose, A Macleod, S Blockley, S Rasmussen

0900h **CGC12903L** The expansion of the prominent Younger Dryas glacier re-advance across the Swiss Alps: I Schindelwig, N Akcar, S Lukas, C Schleuchter

0915h **CGC12904L** Younger Dryas glaciers on Spitsbergen: M Forwick, T Vorren

0930h **CGC12905L** Ocean-atmosphere flickering ended the younger dryas cold period: J Bakke, Ø Lie, E Heegaard, T Dokken, G Haug, P Dulsiki, H Birksq, A Nesje, S Dahl, T Nilsen

0945h **CGC12906L** Changes in southern hemisphere surface, intermediate, and deep water as constraints on the origin of the younger dryas: U Nimnemann

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**Thursday 0815h**

**EIE-05 Electromagnetic petroleum exploration**

0815h **EIE05901L** CSEM – Opportunities and challenges: K Madsen, M Roudot, A Becht, E Gundersen

0845h **EIE05902L** Detecting hydrocarbon reservoirs from marine CSEM in the Santos basin – Brazil: M Buonora, A Zerilli, T Labruzzo, L Rodrigues

0900h **EIE05903L** Multi-Transient Electromagnetic – the CSEM for onshore and shallow-water: S Pharez, A Ziolkowski, G Hall, C Anderson

0915h **EIE05904L** A fast boundary value algorithm for generation of approximate 1D geophysical resistivity models from electric field data: J Mattsson, J Skogman, L Lund

0930h **EIE05905L** Modeling resistivity from velocity in the oring Basin, offshore Norway: L Hübent

**Thursday 0830h**

**EUR-15 Neogene of the Mediterranean: An “ocean laboratory”**

0830h **EUR15901L** Cold seep activity in the Calabrian arc accretionary complex: S Ceramicola, D Praeg, A Cova, D Accettella, N Wardell, R Barbieri, V Unnithan, Shipboard Scientific Parties

0845h **EUR15902L** Spatial and temporal evolution of Kula Mud Volcano (Anaximander Mts, E Mediterranean) during Upper Quaternary-Holocene: M Alexandri, J Woodside, C Ioakim, V Lykousis

0900h **EUR15903L** Deciphering the deep geology of Amsterdam mud volcano area (Eastern Mediterranean): C Ioakim, M Alexandri, S Tsaila-Monopolis, C Perissoratis, V Lykousis, J Woodside

0915h **EUR15904L** Hydrocarbon gases’ origin, migration, and water column expression at eastern Mediterranean mud expulsion structures: V Mastalerz, A Dähnhmann, G De Lange

0930h **EUR15905L** Discovery of carbonate mounds in the Alboran Sea: The Mellila Mound Field: M Comas, L M. Pinheiro, N Babonneau

0945h **EUR15906L** Fluid flux and migration conditioning Miocene-seep carbonate precipitation in the northern Apennines: S Mecozi, S Conti, D Fontana

1030h **EUR15907L** Quaternary marine ecosystem response to fertilization (MERF): Overview and progress:

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Posters presentations in Thursday, day 9 symposia will be held on Wednesday, day 8.
Thursday 0830h
GAH-03 Exploration and assessment of gas hydrates
0830h GAH030901l Natural gas hydrates: Recent research and assessment developments: B Pierce, T Collett, D Hutchinson
0845h GAH030902l Natural gas hydrate mimics: Understanding hydrate growth phenomenon in host systems: D Mahajan, W Lindquist, H Feng
0900h GAH030903l Some approaches for the identification and quantification of gas-hydrates: A viable source of energy: K Sain, H Gupta
0915h GAH030904l A carbon isotope interpretation of shallow sediment methane cycling in Atwater Valley Gulf of Mexico: R Coffin, O Christopher, H Leila, K David, G Joan, H Rick, W Warren
0930h GAH030905l Correlation between gas hydrate occurrences and accretionary style along the Chilean margin: I Vargas Cordero, U Tinivella, F Fanucci, M Lascano, F Accaino, M Loreto
0945h GAH030906l Gas geochemistry investigation and modeling on gas hydrate formation conditions within the Qinghai-Tibet plateau permafrost zone: Z Lu, B Wu, N Sultan, Z Rao, Y Zhu, X Luo

Thursday 0830h
GET-03 Water–rock interaction
0830h GET030901l Geothermal resources complex use and mineral extraction from brines: V Svalova
0845h GET030902l Control of silica scaling using organic inhibitors/dispersants: D Gallup, P Hirtz
0900h GET030903l Calcite dissolution in deionized water at 50° to 250°C and 10MPa: Rate equation and reaction order: Q Gong
0915h GET030904l Genesis of smectite scales in Mindanao 2 Geothermal Production Field: R Dulce, B Sambrano, L Bayrante, G Aragon
0930h GET030905l Application of naphthalene disulphonate tracer in geothermal reservoir resource management: PNOC EDC experience: A Cabel, O Maturgo, J Nogara, G Aragon, B Sambrano, D Zacillo, G Barroca
0945h GET030906l PNOC EDC mitigating measures to silica scaling: A Cabel, A Mejorada, E Alcober, E Angcoy, G Aragon, J Nogara, R Solis, O Maturgo, G Barroca, F See
1030h GET030907l Mineral waters of Serbia and their importance: D Isakovic, D Stojadinovic
1045h GET030908l The Muzhaerte hot spring, upwelling of hot water at fault-bounded blocks of basement rocks, Western Tianshan, China: I Stober, L Zhang, K Bucher
1100h GET030909l Hydrogeochemistry of the Salihli geothermal fields, Turkey: T Ozen, A Bulbul, G Tarcan
1115h GET030910l AMIATA geothermal project: abandonment or development?: G Gianelli, A Manzella
1130h GET030911l Biogeochemical monitoring of geothermally used groundwater systems: A Vieth, A Vetter, K Mangelsdorf, M Wolfgramm, A Seibt, H Wuerdemann
1145h GET030912l Environmental aspects of geothermal, a global perspective: A de Jesus

Thursday 0830h
GHZ-12 Converting geosciences knowledge into action for natural hazard reduction: Lessons from multidisciplinary research
0830h GHZ120901l Multinational Andean Project: Geoscience for Andean Communities (MAP:GAC): Reducing risk from natural hazards in the Andes: C Hickson, P Alcantara, M Ellerbeck, R Page, F Muñoz-Carmona, R Hermanns
0845h GHZ120902l Transforming geoscience knowledge into disaster prevention action in the Andes: Lessons learned from the MAP: GAC experience: C Hickson, P Alcantara, R Page, M Ellerbeck, R Hermanns
0900h GHZ120903l Transforming geoscience knowledge into action: Community communication – the Multinational Andean project: Geoscience for Andean communities: C Hickson, F Muñoz-Carmona, M Ellerbeck, M Community Communications Team
0915h GHZ120904l Map of quaternary deformations of the Andean region: M GTN, R Hermanns
0930h GHZ120905l Las Cascadas: An organized and active community under the Osorno volcano, lake region, Southern Chilean Andes: J Muñoz, H Moreno, L Cari, F Muñoz-Carmona, J Segura, V Portales, G Buchorst, R Cui-Cui, E Hoffman, S Marquez
0945h GHZ120906l Multinational Andean project: Geoscience for Andean communities, Puente del Inca case study, Mendoza province, Argentine republic: E Lavandaio, J Mendia, M Videla, M Castro

Thursday 0830h
GTR-05 Microwave remote sensing – Part 2
0830h GTR050912l A combined small baseline and persistent scatterer InSAR method for resolving land deformation in natural terrain: T Lauknes, T Lauknes, P Shanker A., H Zebker
0845h GTR050913l Detailed subsidence analysis using SPN A-DInSAR data: Murcia case study: G Herrera, J Mulas, G Cooksley, J Duro, A Arnaud, R de la Vega-Panizo

Poster presentations in Thursday, day 9 symposia will be held on Wednesday, day 8.
0900h GTR05914L Assessment of possible PSInSAR systematic error by comparison of two observation time series: M Jemec
0915h GTR05915L SAR remote sensing for disaster coverage in an operational mode: A Mahmoud
0945h GTR05916L Study on radar scattering characteristics in intertidal flats using Polariometric SAR data: W Moon, D Kim, J Kim, J Kim, S Park
1000h GTR05917L Assessment of the influence of surface roughness on RADARSAT-1 and PALSAR backscattering responses under distinct look-azimuth and incidence for lithological discrimination in the tropical semi-arid terrain of Curaçà Valley, Brazil: W Paradella, A Silva, S Knust, A Santos, C Oliveira, T Rabelo

Thursday 0815h
HPP-06 The evolving Earth system through Archaean–Palaeoproterozoic transition
0815h HPP06901L Response of the ancient anoxic biosphere to the oxidation of terrestrial environments: V Melezhik, A Fallick, B Simonson
0845h HPP06902L Redox indicators from Paleoproterozoic black shales: response of the ocean and atmosphere to the Great Oxidation Event: C Scott, A Bekker, T Lyons
0900h HPP06903L Fractionation between inorganic and organic carbon during the Logamundi (2.22-2.1 Ga) carbon isotope excursion: A Bekker, N Beukes, C Holmden, F Kenig, B Eglinton, W Patterson
0915h HPP06904L S and O isotope record from carbonate-associated sulfate during the Logamundi Carbon Isotope Excursion: Implications for early biospheric oxygenation: N Planavsky
1030h HPP06906L FAR-DEEP: Sulphur biogeochemistry in deep time: M Reuschel, H Strauss, A Fallick, V Melezhik
1045h HPP06907L Seeking Microbial Bioalteration Textures in Pillow Lavas from the Proterozoic of the Pechenga Greenstone Belt: N McCloughlin, H Furnes, H Staudigel, E Hanski, K Muehlenbachs
1100h HPP06908L New paleomagnetic results from the Ventsdorp and Transvaal supergroup, and a revised reconstruction of Vaalbara supercraton: M De Kock, D Evans, N Beukes, J Kirschvink

Thursday 0830h
IEE-09 Geosciences and art
0830h IEE09901L Geology and design: Characteristics of successful landscape designs for incorporation of geologic time in informal education sites: R Clary, R Brzuszek, J Wandersee
0845h IEE09902L Non-destructive and non-invasive characterization of the early XIV century Gothic Cathedral Reliquary of the Saint Nicholas Basilica of Bari: E Scandale, N Melone, A Monno, J Nsaka, M Santigiano, G Tempesta
0900h IEE09903L Geoaesthetics and its applications: T Eerola
0915h IEE09904L Mapping Mountains: The art of thrust-systems: C Bond, R Butler, K Foster, H Lorimer
0930h IEE09905L Art and geology: Positive energy of New Mexico: M Dowse, M Metcalf
0945h IEE09906L What is art made of? An artistic approach to the nature of materials and to the materials of nature: J Sellés-Martínez

Thursday 0830h
MGH-05 Quantitative aspects of medical mineralogy
0845h MGH05901L Detection and characterization of amphibole and asbestiform amphibole in natural materials: The importance to society and why geologists must take the lead: M Gunter
0915h MGH05902L Quantitative aspects of regulatory and nonregulatory asbestos group minerals: M Dogan, A Dogan
0930h MGH05903L Quantitative medical mineralogy as applied to erionite series minerals: A Dogan, M Dogan
0945h MGH05904L A pilot study of activity-based real-time airborne particle sampling for erionite and particle size at six villages in Cappadocia, Turkey: J McClothin, W Albrecht, A Dogan, M Dogan, A Miller, B Brass, C Nutt, M Akkus, C Michael
1030h MGH05905L Problems in biogenesis/diagenesis: methods of evaluation of bioapatites: H Catherine W Skinner
1100h MGH05906L Mineralogy in the pharmaceutical industry: J Smoliga
1115h MGH05907L Coral calcium elemental fingerprints from the food additives: Z Pogacnik, M Andrejasic, S Murko
1130h MGH05908L Characterization of fibrous tremolite type asbestos minerals using scanning electron microscopy-energy dispersive spectroscopy-powder X-Ray diffraction: D Alaygut, F Yesilyurt, B Canga, T Tuzuner

Thursday 0845h
MPM-12 New developments in microbeam techniques
0845h MPM12901L Laser ablation ICP-MS as an elemental and isotopic imaging tool: J Woodhead
0915h MPM12902L Quantitative 2 and 3 dimensional, trace-element mapping in minerals using laser ablation inductively coupled plasma – mass spectrometry (LA-ICP-MS): R Cox
0930h MPM12903L Integrated in situ microanalysis of zircon: Limitations and applications: T Kemp, C Hawkesworth, S Wilde, ELMF

Poster presentations in Thursday, day 9 symposia will be held on Wednesday, day 8.
1030h MPM12904L The use of synchrotron radiation in the discovery and XRD studies of minerals: D Pushcharovsky

1045h MPM12905L Relationship among gold and arsenic concentrations and sulfur isotope ratios in pyrite from the high-grade Hishikari gold deposit, Japan: Y Morishita, N Shimada, K Shimada

1100h MPM12906L X-ray absorption on light elements (Mg, Si, Al, K, Ca) on silicate melts using in situ high temperature: D Neuville, D De Ligny, L Cormier, A Flank, P Lagarde

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Thursday 0830h

MPN-12 Sederholm symposium on high-grade metamorphism, crustal melting, migmatites and granitoids – Part 2

0830h MNP12916L Microstructures in migmatites derived from leucocratic felsic plutonic rocks: Evidence for aqueous fluids causing anatexis: E Sawyer

0900h MNP12917L A layered granite: Melt segregation during emplacement or deformation-induced melting?: M Nironen, M Kurhila

0915h MNP12918L Diatexite-granite connection: The origin of the 1.88 Ga Vaasa granite, Fennoscandian Shield: H Mäkitie, P Sipilä, M Lehtonen, H Kujala, R Lahtinen, P Virrantasalo

0930h MNP12919L Mechanisms of crustal anatexis from a LA-ICP-MS study of partially melted metapelitic enclaves and host peraluminous dacite: A Acosta-Vigil, I Buick, J Hermann, B Cesare, D Rubatto

0945h MNP12920L Silica and water-undersaturated partial melting progress in metapelites: Anatectic equilibria, P-T calculation and geodynamical implications: A Álvarez-Valero, O Waters, L Kriegsman

1030h MNP12921L Diffusion-controlled melting in the granitic systems at 800-900°C and 100-200 MPa: T Nishiyama, T Yuguchi, H Isobe

1045h MNP12922L Dehydration melting of UHP metamorphic rocks during the initial exhumation in the Dabie-Sulu orogenic belt: Y Zheng, Z Zhao, Q Xia

1100h MNP12923L Magma hybridization within an anatectic source region: An example from the Karakoram Shear Zone: H Reichardt, R Weinberg

1115h MNP12924L Direct numerical simulation of two-phase flow: D Yolanda, K Boris, J.P.

1130h MNP12925L Chimney-like porosity waves as a mechanism for fluid expulsion at low temperature environments: V Yarushina, Y Podladchikov

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Thursday 0830h

MPD-01 General contributions to mineral deposits – Part 2

0830h MRD01924L Ore-forming fluids in the Pb-Zn-Ag mineralization of the Cmac mine, Kosovo: S Borovec Sostaric, L Palinkas, V Cvetkovic, J Spangenberg

0845h MRD01925L The distribution of trace and minor elements in sphalerite: N Cook, W Skinner, A Pring, C Ciobanu, M Shimizu, L Danushkevich

0900h MRD01926L Geochemistry and electron probe microanalyzer (EPMA) characterization of primary gold from The Selinsing Gold Mine, Pahang, Malaysia: J Abdul Aziz, G Teh

0915h MRD01927L Thermobarometry, trace element zoning and invisible gold in pyrite from the Kundarkocha gold prospect, Eastern India: B Mishra, C Saravanam, S Kartkeya

0930h MRD01928L Automation as the means to improve laboratory performance: S Hem, M Dobel

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Thursday 0830h

MPD-05 Results of First Global Mineral Resource Assessment and other large-region assessment studies

0830h MRD05901L Databases, publishing and information depositories in ore geology and mineral exploration: N Cook

0900h MRD05902L The global distribution of mineral resources and the outlook for future discoveries: A Stavskiy, I Egorova, K Florensky

0915h MRD05903L European mineral resource GIS: M Billa, D Cassard, Y Deschamps, I Salpeteur

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Poster presentations in Thursday, day 9 symposia will be held on Wednesday, day 8.

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0930h MRD05904L Gold predictivity mapping in French Guiana using an expert-guided data-driven approach based on a regional-scale GIS: D Cassard, M Billa, A Lambert, J Picot, Y Husson

1030h MRD05905L Main features and trends of the Earth’s metallogenic evolution: A Tkachev

1045h MRD05906L Metallogeny of the geodynamic systems of the pulsating expanding Earth: M Krutoyarskiy

1100h MRD05907L An overview of the USGS Global Mineral Resource Assessment project: M Zientek, J Hammarstrom


1145h MRD05909L Study on Endogenic Metallogenic systems of the Nannihu Superlarge Deposit: C Wang, Q Cheng, J Deng, S Xie

Thursday 0830h

SES-05 Dynamics of complex intracontinental basins

0830h SES05901L Thermo-mechanical modelling versus satellite data: a key to unravel the major processes controlling the present-day deformation in the Central European Basin System area: A Marotta

0900h SES05902L Tectonic evolution of the Central European Basin System (CEBS): Insights from numerical modelling: M Cacace, U Bayer, A Marotta

0915h SES05903L Permian-Paleogene temperature and burial evolution of the NW Polish Basin – evidence from maturity modelling and apatite fission-track dating: R Litke, M Resak, U Giasmacher, M Narkiewicz

0930h SES05904L Seismic data enhancement with Common Reflection Surface (CRS) stack method: M Baykulov, H Brink, D Gajewski, M Yoon

0945h SES05905L 3D structural model of the Central European Basin System (CEBS): Y Maystrenko, U Bayer, M Scheck-Wenderoth

1030h SES05906L Influence of deep processes on development of the sedimentary basins (on an example of the Volga-Ural region): I Plotnikova, M Kruglov

1100h SES05907L The role of basin brines in the release and migration of nitrogen in the NGB: B Plessen, V Lueders, P Hoth

1115h SES05908L Coupled groundwater transport processes in a shallow salt dome environment: F Magri, U Bayer

1130h SES05909L Transfer zones of Longmen Mountain thrust belt, SW China: W Jin, L Tang, K Yang, G Wan, Z L," Y Yu

1145h SES05910L Tectonic vs. climatic controls on changes in sediment supply and storage: The Quaternary alluvial record of the central Pannonian Basin: A Nádor, Á Tóth-Makk, F Thám-Bozsó, E Babinszki, Á Magyari, Z Kercsmár

Poster presentations in Thursday, day 9 symposia will be held on Wednesday, day 8.
Thursday 14 August – Late Morning

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Thursday 1030h

eie-06 Time lapse seismic: Monitoring fluid, stress and compaction changes
1030h EIE06901L Fluid-induced seismicity – a tool of reservoir monitoring and characterization: S Shapiro
1100h EIE06902L Surface geophysical monitoring of geological CO₂ storage: O Eiken
1130h EIE06903L From seismic acquisition to quantitative interpretation of water saturation on Norne Field: B Osdal
1145h EIE06904L Generating flooding maps at Veslefrikk using 4D, log data and reservoir simulation: T Mårdalen, C Pryme
1200h EIE06905L Permanent reservoir monitoring using 4C fiber-optic sensors in seabed cable: S Pharez, B Bunn, S Maas, R Tenghamn, S Seth, T Rekdal

Thursday 1030h
IEE-01 General contributions to geoscience education and ethics
1030h IEE01901L When are we going to be able to answer the demand for geoscientists?: J Varet
1045h IEE01902L Success in student recruitment in Danish geology education: Trends, causes and solutions: B Buchardt, N Herrmann
1100h IEE01903L Sharing the land: Geoscience education and information to empower Native American students and cultures in the United States: E Riggs, E Robbins
1115h IEE01904L Education for sustainable development in mineral resources sector in the Republic of Serbia: A Seke, L Seke, D Milovanovic
1130h IEE01905L L-hand made: A geoscience education project to make cartography more exciting: M Bertacchi
1145h IEE01906L Using systems theory to understand student teachers’ ideas about earth science learning in a cross-curricular context: H Lindsay

Thursday 1030h
HPQ-04 Quaternary palaeo-ice streams of the northern and southern hemisphere
1030h HPQ04901L The submarine geological and geomorphological record of Antarctic palaeo-ice streams: C O Cofaigh
1100h HPQ04902L Ice-streams and ice-stream networks in the Laurentide and Fennoscandian ice sheets: J Kleman
1130h HPQ04903L The last ice age glaciation of the Himalaya – an investigation of glacier trim-lines, ice thicknesses, lowest former ice margin positions and snow-lines in the Khumbu- and Khumbakarna Himal (Cho Oyu, Mt. Everest and Makalu-S-slopes): M Kuhle
1145h HPQ04904L The life and death of the Bjørnøyrenna ice stream, Polar North Atlantic: K Andreassen, M Winsborrow, J Laberg, T Vorren

Posters: 0930h

Poster presentations in Thursday, day 9 symposia will be held on Wednesday, day 8.