



**International
Lithosphere Program***
Annual Report 2015

* The ILP-homepage provides information on all aspects of ILP: <http://www.scl-ilp.org/>

REPORT OF ILP – INTERNATIONAL LITHOSPHERE PROGRAM

1. TITLE OF CONSTITUENT BODY AND NAME OF REPORTERS

Prof. Dr. Sierd Cloetingh, President (Utrecht University)

Prof. Dr. Magdalena Scheck-Wenderoth, Secretary General (GFZ Potsdam)

Dr. Alexander Rudloff, Executive Secretary (GFZ Potsdam)

ILP – an IUGS and IUGG initiative established by ICSU (International Council of Scientific Unions) in 1980

2. OVERALL OBJECTIVES

The International Lithosphere Program (ILP) seeks to elucidate the nature, dynamics, origin and evolution of the lithosphere through international, multidisciplinary geoscience research projects and coordinating committees.

The ILP is charged with promoting multidisciplinary research projects of interest to both the geological (IUGS) and geophysical (IUGG) communities.

The ILP seeks to achieve a fine balance between: *“addressing societal needs”*, e.g. understanding natural catastrophes and other solid earth processes that affect society and the biosphere, providing information for improved hazard assessment, resource exploration, geo-medicine and environmental protection; as well as *“satisfying scientific curiosity”*.

According to the Terms of Reference published in 2008 and renewed in 2011 ILP is a body of IUGG and IUGS.

3. FIT WITHIN IUGS AND IUGG POLICY

- IUGS and IUGG are represented in the ILP Bureau.
- ILP cooperates with IUGS and IUGG on the follow-up initiatives to the International Year of Planet Earth (IYPE); the ILP President was a member of the board of IYPE Corporation. In this context ILP was leading the IYPE theme Deep Earth, published in a special brochure and, in addition, is financially supporting IYPE. ILP will take the lead in representing solid earth sciences in the future Planet Earth Institute.
- Now ILP takes again part in the forefront of development of new solid earth initiatives in research and its disseminations. The ILP president is a member of the Board of the new Earth Science Matters initiative.

4. ORGANISATION

ILP has an international Bureau with members from several countries that meet regularly to monitor progress and to select new programmes and activities in close consultation with the representatives of National Committees. The Bureau is chaired by the President, with support from the Secretary General.

The Bureau was restructured during the Bureau meeting in Potsdam on September 23, 2015. Prof. Alessandro Tibaldi was elected as the new chairperson for the National Committees. During the same Bureau meeting Sierd Cloetingh was re-elected as President and Hans Thybo was elected as President elect, who will take responsibility as new President after his term as EGU president will be completed in spring 2017.

Bureau membership

Executive Members:			
President:	S. Cloetingh	Netherlands	
President elect:	H. Thybo	Denmark	
Secretary General:	M. Scheck-Wenderoth	Germany	
with Executive Secretary:	A. Rudloff	Germany	
Chairperson – Committee of National Representatives:	A. Tibaldi	Italy	
Honorary President	A. Green	Switzerland	
ILP Fellow	J.F.W. Negendank	Germany	
Representatives of IUGG & IUGS:	D. Jackson	USA	IUGG
	K. C. Sain	India	IUGG
	R. Oberhänsli	Germany	IUGS
	A. Green	Switzerland	IUGS & IUGG
Associate Members:	J.-P. Burg	Switzerland	
	H. Thybo	Denmark	
	A. Morozov	Russia	
	F. Roure	France	
	M. Zoback	USA	
	P. Mc Keever	UNESCO	
Lifetime Members:	M. von Knorring	Sweden	
	H. Gupta	India	

The Bureau members evaluate submitted projects (task forces, coordinating committees, workshops) and decide on their approval according to the criteria of ILP.

EXTENT OF SUPPORT FROM SOURCES OTHER THAN IUGS AND IUGG

ILP is basically financed by IUGS and IUGG (each 15,000 US \$). The Bureau could raise funds via the national committees and other bodies from the participating countries (e.g. National Science Foundations, Academies; see list of contributing countries 2011 and earlier). The payment from the different national science foundations is still very heterogenous as to be deduced from the following table.

ILP is greatly indebted to the GFZ German Research for Geosciences at Potsdam for its continuing and long-lasting support.

Voluntary contributions:

Country/Institution:	Contribution 2014:	Contribution 2015:
China	2,000.00 US \$	-
Denmark	2,000.00 EUR	2,000.00 EUR
Finland	1,000.00 EUR	1,000.00 EUR
France	5,000.00 EUR ¹	-
Germany	5,000.00 EUR	5,000.00 EUR
Netherlands	-	-
Sweden	-	6,000.00 EUR ²
Switzerland	2,000.00 EUR	-
Taiwan	-	-
USA	-	8,000.00 US\$
IUGG	15,000.00 US\$	15,000.00 US\$
IUGS	15,000.00 US\$	15,000.00 US\$
Total:	32,000.00 US\$ 15,000.00 EUR	38,000.00 US\$ 14,000.00 EUR

In the future ILP will make further special effort towards emerging countries and will intensify its partnership with industry.

5. INTERFACE WITH OTHER INTERNATIONAL PROJECTS

ILP stimulates and supports the Task Forces and Regional Coordinating Committees with 4,000 US \$ or the equivalent sum in € per year over a period of 5 years. This basic support (“seed money”) is used by the project leaders to raise additional funds for their scientific activities, while there is a strong existing interface with other projects (e.g. ICDP, TOPO-EUROPE, TOPO-CENTRAL ASIA, ZIP). All Task Forces and Coordinating Committees are led by international teams.

¹ for 2013

² for 2014 and 2015

- **Task Forces & Coordinating Committees in the realm of the major ILP themes until 2015:**

I. Geoscience of global change

- TF 3: Bridging the gap from micro-seismicity to large earthquakes.
Leaders: M. Bohnhoff, (Germany), M.D. Zoback (USA), S. Shapiro (Germany), M. Aktar (Turkey).
- TF 10: The Unconventionals: *Leaders: B. Horsfield (Germany), A. Aplin (United Kingdom), W. Sassi (France), R. Littke (Germany), H. Doornenbaal (Netherlands).*

II. Contemporary dynamics and deep processes

- TF 4: Continental Collisional Orogens: From Atomic Scales to Mountain Buildings. *Leaders: L. Dobrzhinetskaya (USA); J. Zhang (China).*
- TF 8: Lithosphere dynamics: interplays between models and data. *Leader(s): Burov (France), E., Gerya, T. (Switzerland), Buiter, S.(Norway), Houseman, G.(UK), Pysklywec, R., Ismail-Zadeh, A.(Germany)*
- TF 9: DISC - Deep Into the Subduction Channel. *Leader: P. Agard (France), A. Okay (Turkey), B. Hacker (USA), T. Gerya (Switzerland).*

III. Continental lithosphere

- TF 1: CALE - Circum Arctic Lithosphere Evolution. *Leaders: V. Pease (Sweden), W. Jokat (Germany), B. Coakley (Canada), R. Stephenson (UK).*
- TF 2: Volcanoes and society: Environment, health and public outreach. *Leaders: A. Tibaldi (Italy), A.U. Dogan (USA), B. Van Wyk de Vries (France), D. Tormey (Canada, USA).*
- TF 3: Bridging the gap from micro-seismicity to large earthquakes.
- TF 4: Continental Collisional Orogens: From Atomic Scales to Mountain...
- TF 5: LAPBOX - The lithosphere-asthenosphere boundary depth paradox.
Leaders: U. Achauer (France), J. Plomerova (Czech Republic), S. Jung (Germany).
- TF 6: Sedimentary Basins. *Leaders: L. Matenco (Netherlands), F. Nader (France).*
- TF 7: 3D Geo-mechanical modelling of geodynamic processes in the lithosphere. *Leader: O. Heidbach (Germany).*
- TF 8: Lithosphere dynamics: interplays between models and data. *Leader(s): Burov (France), E., Gerya, T. (Switzerland), Buiter, S.(Norway), Houseman, G.(UK), Pysklywec, R., Ismail-Zadeh, A.(Germany)*

IV. Oceanic lithosphere

- TF 1: CALE - Circum Arctic Lithosphere Evolution.

Coordinating Committees:

- TOPO-EUROPE. *Leaders: S. Cloetingh (Netherlands), S. Willet (Switzerland).*
- MEDYNA - Mantle Dynamics and Plate Architecture Beneath North Africa.
Leaders: C. Garrido (Spain), J.-L. Bodinier (France).

The activities are documented in the bibliography (see homepage and annex).

6. MAIN ACCOMPLISHMENTS IN 2015

A business meeting was held at EGU in Vienna, Austria, April 2015 (minutes below) and a meeting of all ILP TF and CC leaders as well as the Bureau members took place in Potsdam, Germany to celebrate the 35th anniversary of ILP in September 2015. During this meeting reports on the past funding period have been presented by the different TF and CC and new proposals have been suggested. Subsequently a Bureau Meeting took place (minutes below) when decisions have been taken by the Bureau on which newly proposed TF and CC shall be funded and on who shall receive the 2016 Flinn-Hart Award. Furthermore elections for the position of the ILP president for the next 5-year period have been carried out.

ADMINISTRATION

Minutes of the ILP Business Meeting during the EGU General Assembly 2015, Austria, 13 April 2015

18:00 h – 19:50 h, Austria Centre Vienna, Room Y3

Attendees, see Annex 1 (not included)

Agenda ILP Business Meeting

EGU European Geosciences Union - General Assembly Vienna, Austria, 13 April 2015

- 1 Welcome
- 2 Report of the President
- 3 Report of the Secretary General and the ILP Office
- 4 Reports from the Task Forces and Coordinating Committees
- 5 Reports from IUGG and IUGS
- 6 Reports from other initiatives, e.g. ESM, YES network
- 7 Looking forward to ILP35, 21-23 Sept 2015 in Potsdam
- 8 All other business

Welcome

- President Cloetingh opens the meeting and welcomes the delegates, guests and friends of ILP, especially the presidents of the ILP mother unions IUGG, Harsh Gupta and IUGS, Roland Oberhänsli. At a later stage he also welcomes the new EGU president and ILP bureau member Hans Thybo. The adoption of the agenda is followed by a short tour-de-table.

Report of the President

- President Cloetingh briefly mentions the planned conference in 2015, celebrating 35 years of ILP.
- The president gives short reports on the TOPO-projects, and other related activities.

Report of the Secretary General (SG)

- SG Scheck-Wenderoth provides an update on the latest activities of ILP.
- The new ILP website is online; short insights are given.

Reports of the Task Forces and Coordinating Committees

- The attending ILP Task Forces leaders inform about their recent activities:
- A. Tibaldi (TF II), J. Plomerova (TF V), F. Nadir (TF VI), E. Burov (TF VIII) and P. Agard (TF IX). The reports from TF I, III IV, VI, and X are summarized by the Secretary General; The Coordinating Committees follow hereafter: TOPO-Europe by S. Cloetingh;
- New proposals for task forces and coordinating committees should be submitted to the ILP office before 31 May 2015.

Reports from IUGG and IUGS

- IUGG SG Alik Ismail-Zadeh provides short information on IUGG's activities. He stresses the upcoming 26th IUGG General Assembly in Prague from 22 June to 2 July 2015.
- It is just 500 days until the next IUGS's International Geological Congress (IGC) in Cape Town 2016. ILP members are encouraged to submit session proposals.

Reports from other initiatives

- No reports held.

Looking forward to ILP35, 21-23 Sept 2015 in Potsdam

- The conference on the occasion of ILP's 35th birthday will take place in Potsdam from 21 to 23 September 2015. **All task force and coordinating committee leaders and contributors are expected to participate.** Day one will start with keynotes from IUGG, IUGS and EGU. The ILP success story will be presented through task force and coordinating committee talks. A skeleton programme is in preparation.
- New ILP proposals should also be presented and will be reviewed thereafter.
- Abstracts related to both ending and proposed task forces and coordinating committees should be submitted before 31 May 2015. Further information and the abstract template are available under <http://www.scl-ilp.org/events/35-ilp/>.

All other business

- The next (European) ILP business meeting will be held at the EGU General Assembly 2016 (Monday, 18 April 2016 - 18:00 hrs.).
- All delegates are invited to submit suggestions for the Flinn-Hart-Award 2015 before 31 May 2015, also addressed to the ILP office.
- List of ILP related meetings:
 - 11th TOPO-EUROPE Workshop, Antibes/France, 5-7 October 2015,
 - ILP Sedimentary Basin Meeting 2015, Tokyo/Japan, 5-9 October 2015.

Alexander Rudloff, Executive Secretary of ILP

**Minutes of the ILP Bureau Meeting during the
ILP “35 years conference”, Potsdam, 23 September 2015**

09:00 h – 13:15 h, GFZ German Research Centre for Geosciences,
Room F309 (First Floor, Building F)

Attendees, see Annex 1 (not included)

**Agenda
ILP Bureau Meeting**

- 9 Welcome
- 10 Adoption of Agenda
- 11 Report of the President
- 12 Report of the Secretary General and the ILP Office
- 13 Reports from IUGG and IUGS
- 14 Proposals for New Task Forces and Coordinating Committees
- 15 Financial outlook
- 16 ILP Governance
- 17 Considerations, Decisions, Election
- 18 Any Other Business

Welcome and Agenda (1-2)

- President Cloetingh opens the meeting and welcomes the present ILP bureau members, the agenda is adopted.

Report of the President (3)

- President Cloetingh welcomes IUGG's and IUGS' support to ILP.
- The president acknowledges the role of the ILP office at GFZ and appreciates the long-lasting support and engagement.
- In addition to ILP's four topical themes, outreach is seen as a major field for future activity. It is broadly accepted that ILP's visibility can be raised. Cloetingh suggests Benjamin van der Wyk de Vries (UBP, France) as ILP's outreach liaison officer. This cross TF-activity will be funded, when an action plan is presented to the ILP bureau.

Report of the Secretary General and the ILP office (4)

- SG Scheck-Wenderoth reports on her participation in the IUGS meeting in Vancouver.
- ILP has taken recommendations from IUGG/IUGS's joint review.
- Future activity will focus on joint sessions from ILP with IUGG, IUGS, IASPEI, IAVCEI, IGSU, etc.

Reports from IUGG and IUGS (5)

- The next 35th IGC will take place in Cape Town, 27 August – 4 September 2016.
- IUGG's next 27th GA will be in 2019 in Montreal.
- Germany bids for IGC 2024 and appreciates support for this candidature.

Proposals for New Task Forces and Coordinating Committees (6)

- Nine proposals were submitted before the deadline, one single proposal was stimulated by SG on short notice: “The seismic cycle at continental transforms from seismological observation and forward simulation”. Outreach activity shall be funded additionally.
- All proposals are intensively discussed, TOPO-Europe without S. Cloetingh’s presence.
- 1 is rated AA, 8 are rated A, 2 are not recommended. See spreadsheet for details.
- TF- and CC-chairs of proposals rated AA and A will be informed about the decision of the bureau meeting by the office and shall receive funding.
- TF-chairs of proposals not recommended will be informed about the decision of the bureau meeting in due time by the president.

Financial outlook (7)

- The Executive Secretary presents a budget plan for 2015-2020.
- The support to all Task Forces and Coordinating Committees shall be continued at an annual level of 3,200.- EUR each, if the total budget of ILP otherwise would decrease.
- The bureau members agree ex-post to an annual contribution of 4,000 EUR.
- The financial outlook is adopted.

ILP Governance (8)

- The present ILP bureau members see need for new associate bureau members. They should come from Asia, Africa and Latin America.
- ILP’s Chair of the National Representatives should be appointed.
- The president begins a discussion on his own successor.
- The president underlines the valuable support of GFZ to the ILP office and strongly recommends its continuation. Therefore, he favours the origin of the SG from the Berlin/Potsdam region and a connection to the regional network Geo.X.

Considerations, Decisions, Elections (9)

- IUGG and IUGS will be asked for confirmation of ILP officers (current or new ones).
- The ILP bureau nominates Alessandro Tibaldi (Milan, TF II) as New Chair of National Representatives. He will immediately follow Victoria Pease.
- The ILP bureau votes for Hans Thybo (Copenhagen) as ILP president elect, in his absence. He will take up this duty after the end of his EGU presidency, in spring 2017. IUGG and IUGS are kindly requested to approve this suggestion.
- The Flinn-Hart Award 2015 will be given to Philippe Yamato (Rennes, France).

Any Other Business (10)

- The abstracts of the ILP 35th anniversary meeting will be made available in ebook form, to be downloaded at the ILP website.
- A publication is planned from the “35 years conference” input, with Solid Earth/SE (EGU), and/or Tectonophysics (action -> SG)
- The next (European) ILP business meeting will be held at the EGU General Assembly 2016 (Monday, 18 April 2016 - 18:00 hrs.).

Alexander Rudloff, Executive Secretary of ILP

- **Other activities**

The SG has participated at the IUGS EC Meeting Vancouver, Canada, January 2015 and presented a brief report on past activities.

SCIENCE AND RESEARCH

Science Highlights

A major science highlight was the 35th Anniversary meeting of ILP in Potsdam (program below), where all TF and CC chairs have reported on the main achievements of the past 5 years. In addition keynotes have been presented by the presidents of IUGS, IUGG and EGU on where lithosphere research should move forward. Also each of the main themes of ILP has been elucidated by a key note presentation.

Programme of ILP's 35 Years Anniversary Meeting

35 Years of ILP

“Celebrating Excellence in Solid Earth Sciences”

ILP's Third Potsdam Conference 21-23 September 2015

GFZ German Research Centre for Geosciences

Monday, 21 Sept. 2015

10:00 a.m. Registration (GFZ, Building H)

11:00 a.m. Opening Session and Welcome, Chair: N.N.

Hüttl, R.F. (GFZ), Welcome address

Cloetingh, S. (UU), Scheck-Wenderoth, M. (GFZ), ILP Rationale

11:15 a.m. Keynote Lectures, Chair S. Cloetingh (20 Minutes Presentation + 5 Minutes Discussion)

Thybo, H. (EGU): *“ILP, EGU and the lithosphere”*

Gupta, H. (IUGG): *“IUGG and ILP”*

Oberhänsli, R. (IUGS): *“IUGS and ILP”*

(Group Picture)

12:30 a.m. Session: „ILP Highlights, Part I“, Chair: S. Cloetingh (15 Minutes Presentation + 5 Minutes Discussion)

Pease, V. (U Stockholm/SE), Coakley, B., Curtis, M., Faliede, J., Jokat, W., Meisling, K.,
Miller, E. & Stephenson, R. (Task Force I): *“Circum-Arctic lithospheric transects from
onshore to offshore”*

Tibaldi, A. (U Milan Bic/IT) et al., Task Force II: *“Volcanoes and society: environment, health
and hazard”*

01:10 p.m. Lunch Break

**02:10 p.m. Session: „ILP Highlights, Part II“, Chair: M. Scheck-Wenderoth
(15 Minutes Presentation + 5 Minutes Discussion)**

Bohnhoff, M. (GFZ/DE) et al., Task Force III: *“Bridging the gap from micro seismicity to large earthquakes”*

Dobrzhinetskaya, L. (U Riverside/US, Task Force IV): *“Tracking Traces of the Subducted Continental Lithosphere in Deep Earth”*

Achauer, U. (U Strasbourg/FR) et al., Task Force V: *“The lithosphere-asthenosphere boundary depth paradox (LAB)”*

Matenco, L. (U Utrecht/NL), Nader, F. (IFP/FR) Task Force VI: *“Sedimentary basins”*

Heidbach, O. (GFZ/DE), Rajabi, M., Ziegler, M., Reiter, K. & the WSM Team (Task Force VII): *“The World Stress Map Project – an ILP Success Story”*

Burov, E. (UPMC/FR) et al., Task Force VIII: *“Lithosphere dynamics: interplays between models and data”*

04:10 p.m. Coffee Break and Poster Session

**04:30 p.m. Session: „ILP Highlights, Part III“, Chair: A. Rudloff
(15 Minutes Presentation + 5 Minutes Discussion)**

Agard, Ph. (UPMC/FR) et al., Task Force IX: *“DISC – Deep Into the Subduction Channel”*

Hübner, A., Horsfield, B. (GFZ/DE) et al., Task Force X: *“The Unconventionals”*

Cloetingh, S. (U Utrecht/NL) et al., CC TOPO-Europe: *“TOPO-EUROPE - 4D Topography Evolution in Europe: Uplift, Subsidence and Sea Level Rise”*

Garrido, C. (U Granada/ES) et al., CC MEDYNA: *“MEDYNA - Mantle Dynamics and Plate Architecture Beneath North Africa”*

**05:50 p.m. Session: „ILP Guest-Speakers“, Chair: A. Rudloff
(13 Minutes Presentation + 2 Minutes Discussion)**

Gupta H.: *Investigation of Artificial Water Reservoir Triggered Earthquake at Koyna, India*

Jones A. et al: *Petrologically-consistent thermo-chemical modelling of the lithosphere*

Artemieva I. M., Vinnik L. P.: *Density structure of the cratonic mantle in southern Africa: correlations with seismic velocities, xenolith data, and dynamic topography*

06:35 p.m. Time for Transfer to Hotels

07:30 p.m. ILP Dinner (“Restaurant Schmiede 9”, Neuer Markt, Potsdam)

Tuesday, 22 Sept. 2015

**09:00 a.m. Keynote Lectures on ILP Themes, Part I, Chair: H.Thybo
(25 Minutes Presentation + 5 Minutes Discussion)**

Haq, B. (NSF/US): *“Geoscience of Global Change”*

Cloetingh, S. (U Utrecht/NL): *“Contemporary Dynamics and Deep Processes”*

Oncken, O. (GFZ/DE): *“Continental Lithosphere”*

10:30 a.m. Coffee Break and Poster Session

**11:00 a.m. Keynote Lectures on ILP Themes, Part I, Chair: H. Gupta
(25 Minutes Presentation + 5 Minutes Discussion)**

Devey, C. (GEOMAR/DE): *“The Oceanic Lithosphere: ILP orphan or future star?”*

Gudmundsson, A. (U London/UK): *“Energies driving fracture propagation and eruptions in volcanoes”*

12:00 a.m. Lunch Break

**01:00 p.m. Session “New Task Force Proposals, Part I”, Chair: M. Scheck-Wend.
(10 Minutes Presentation + 5 Minutes Discussion)**

Agard, Ph. (UPMC/FR) et al.: *“DISC – Deep Into the Subduction Channel”*

Burov, E. (UPMC/FR) et al.: *“Lithosphere dynamics: interplays between models and data”*

Cloetingh, S. (U Utrecht/NL) et al.: *“TOPO-EUROPE - 4D Topography Evolution in Europe”*

Dobrzhinetskaya, L. (U Riverside/US), Zhang, J.: *“Fate of the Subducted Continental Lithosphere: Insight Through Analytical Mineralogy and Microstructures”*

Garrido, C. (U Granada/ES) et al.: *“Maghreb-EU integrated research on Geodynamics, Geohazards, and applied Geology in North West Africa”*

Martí, J. (ICTJA/ES), Tibaldi, A. (U Milan Bic/IT) et al.: *“Structural and Rheological Constraints on Magma Migration, Accumulation and Eruption Through the Lithosphere”*

02:30 p.m. Coffee Break and Poster Session

**03:00 p.m. Session “New Task Force Proposals, Part II”, Chair: S. Cloetingh
(10 Minutes Presentation + 5 Minutes Discussion)**

Matenco, L. (U Utrecht/NL), Nader, F. (IFP/FR) et al.: *“Sedimentary basins as archives of lithosphere history”*

Plomerova, J. (Academy of Sciences/CZ) et al.: *“The Unknown Lithosphere - structure, boundaries (MLD, LAB) and dynamics (UNLIT)”*

Poutanen, M. (FGI/FI), Rogoshina, I. (GFZ/DE) et al.: *“DynaM-Ice – Dynamics and Interaction of Mantle, Lithosphere and Ice Masses”*

Plenary Discussion, Final Remarks Closing (Approx. 17:00 p.m.)

ILP Poster Session (Monday & Tuesday)

Arora, K. & Dhar, U.: *“Evidences of active faulting in Koyna-Warna seismic zone, India from Airborne LiDAR data”*

Beccalli, A., Tibaldi, A., Bonali, F.L., De Angelis, A., Rust, D. & Withworth, M.: *“Holocene deformation field at the junction between the Husavik-Flatey transform fault and the northern Iceland Volcanic Rift”*

De Angelis, A., Tibaldi, A., Beccalli, A., Bonali, F.L. & Cavallo, A.: *“Structure and petro-chemistry of an exceptionally-exposed cone sheet system: the Thverfell case, Esja Peninsula, Iceland”*

Oppizzi, P., Bellini, M. & Alfredo, L.: *“Landslides in residual volcanic soils of the Colombian Cordillera Occidental”*

Pierdominici, S. & Mariucci, M. T.: *“Present-day stress and other geophysical parameters from deep well data”*

Pierdominici, S., Montone, P., Schmitt, D.R., Paulsen, T.S., Wilson, T.J., Jarrard, R.D., Wonik, T. & Handwerker, D.: *“Present-day stress field in Ross Sea (Antarctica) contribution of AND-2A Well (Antarctica)”*

Scribano, V., Manuella, F.C., Carbone S. & Brancato A.: *“Abiogenic hydrocarbons in the Tethyan serpentinite basement of southeastern Sicily (Italy): a xenolith perspective”*

More Science

As every year most of the ILP TF and CC have been visible at the large international meetings EGU and AGU. In addition ILP had a strong presence at the IUGG international assembly in Prague. Moreover, most TF and CC contributed to specific conferences within their thematic fields and held dedicated smaller but international workshops. The publication activity was significant for most teams and several TF and CC produced Special Issues in peer-reviewed journals summarizing topical results. Some specific meeting highlights and new developments are listed below:

TF 1: Final meeting of the CALE project group on Svalbard, September 2015. Special Issue in Tectonophysics in progress.

No new proposal on Arctic lithosphere research has been submitted.

TF 2: Very strong outreach programs, Chaîne des Puy - Limagne Fault World Heritage Nomination; Strong publication record.

Convincing proposal for new phase submitted and positively evaluated by the Bureau

TF 3: spin off created with ICDP-GONAF Project (drilling the North Anatolian FZ) and workshop 2015, additional activity in the applied field of geothermal energy production.

New and convincing proposal submitted after joining forces with TF 7, positively evaluated by the Bureau.

TF 4: Exciting new results presented at the 35th Anniversary ILP meeting with track record of several young scientists' carrier paths supported by ILP.

New proposal submitted, positively evaluated by the Bureau.

TF 5: organized a very successful session at IUGG international meeting in Prague, Czech Republic 2015.

New proposal presented, not recommended for funding by the ILP Bureau.

TF 6: 10th Yearly meeting of the TF under new leadership: "Lithosphere dynamics of sedimentary basins in subduction systems and related analogues" in Tokyo, Japan with focus on subduction-related basins. 2 Special Volumes (Arabian Journal of Geosciences; Tectonophysics) in progress.

New and convincing proposal submitted positively evaluated by the Bureau.

TF 7: New release of the World Stress Map presented. Fundamental and applied aspects of stress field research attain increasing attention.

New and convincing proposal submitted after joining forces with TF 3, positively evaluated by the Bureau.

TF 8: XIV International workshop on Modelling of Mantle and Lithosphere Dynamics, Oleron, France 2015. After reporting on an incredible success of this young Task Force and the presentation of a convincing proposal for continuation a positive evaluation of the bureau followed.

The success is however shadowed by a very sad development: we lost Evgene Burov who had brought this TF to success. We shall all miss him. The TF co-leader T. Gerya has agreed to take responsibility for the next phase.

TF 9: Spin off project: 2014-2018 Initial Training Network ITN Marie Curie: ZIP / « Zooming In between Plates » (FP7, 3.7 M€) Special Volume in Lithos in progress. International workshop 2015: Tectonic and Geodynamic Evolution of Eastern Iran.

Presentation of new proposal for continuation with positive evaluation of the Bureau.

TF 10: Very strong outreach activity via the Shale Gas Information Platform, Input to E-SOP (European Sustainable Operating Practices Initiative), Establishment of the EERA Shale Gas Joint Program, 4 spin off projects funded by Horizon 2020.

No presentation of a new proposal for continuation.

CC 1 TOPO-EUROPE: continues after the completion of ESF EUROCORES-Project TopoEurope, 11th Yearly workshop in Antibes, France 2015, roadmap for the next years presented. Several spinoff projects: EU EPOS-ESFRI; TopoMod – Marie-Curie ITN; SUBITOP ETN (from 2016).

Presentation of a convincing proposal for continuation, a positive evaluation of the bureau followed.

CC 1 MEDYNA: Extremely integrative cross-N-Africa and S-Europe project under difficult political conditions in the aftermath of Arab Spring. Strong presence in sessions at EGU and organization of workshops, spinoff project within FP7-PEOPLE-IRSES-Project 2014-2017.

Presentation of a convincing proposal for continuation, a positive evaluation of the bureau followed.

Selected Publications in 2015:

- Akinen et al., in press. Crustal xenoliths of Bennett Island, DeLongs. *Arktos*, 2015.
- Breitkreuz, C., Rocchi, S. 2016: Physical Geology of Shallow Magmatic Systems Dikes, Sills and Laccoliths. *Special Issue in the Series: Advances in Volcanology*.
- Cloetingh, S. and Haq, Bilal, 2015: Inherited landscapes and sea level change. *Science*, 347, 6220.
- Dressel, I., Scheck-Wenderoth, M., Cacace, M., Lewerenz, B., Götze, H.-J., Reichert, C. (2015): Reconstruction of the southwestern African continental margin by backward modeling. - *Marine and Petroleum Geology*, 67, p. 544-555.
- Geoffroy, L., Burov, E., and P. Werner, Volcanic passive margins: another way to break up continents, *Scientific Reports - NATURE*, in press, 2015.
- Gibson G., Manatschal G. and Roure F., eds., 2015. Sedimentary basins and crustal processes at extended and hyper-extended continental margins. *Special volume, Geological Society, London. (This book will content about 15 chapters presented in 2012 during the Task Force 6 sessions at the World Geological Congress in Brisbane, Australia)*.
- Koptev, A., Burov E., Calais, E., Leroy, S., Cloeting, S., and T. Gerya, Contrasted continental rifting via plume-craton interaction: applications to Central East African rift, *Geoscience Frontiers, invited, submitted, 2015*.
- Koptev, A., Calais, E., Burov, E., and S. Leroy, Dual continental rift systems generated by plume-lithosphere interaction, *NATURE Geoscience*, DOI: 10.1016/j.gr.2015.02.002, 2015.
- Mezri, L., Le Pourhiet, L., Wolf, S., and E. Burov, New parametric implementation of metamorphic reactions limited by water content, impact on exhumation along detachment faults, *Lithos*, in press, 2015.
- Przybycin, A. M., Scheck-Wenderoth, M., Schneider, M. (2015): The 3D conductive thermal field of the North Alpine Foreland Basin: influence of the deep structure and the adjacent European Alps. - *Geothermal Energy*, 3.
- Sonibare, W., Sippel, J., Scheck-Wenderoth, M., Mikeš, D. (2015): Crust-scale 3D model of the Western Bredasdorp Basin (Southern South Africa): data-based insights from combined isostatic and 3D gravity modelling. - *Basin Research*, 27, 2, p. 125-151.
- Tilita, M., Scheck-Wenderoth, M., Matenco, L., Cloetingh, S. (2015): Modelling the coupling between salt kinematics and subsidence evolution: Inferences for the Miocene evolution of the Transylvanian Basin. - *Tectonophysics*, 658, p. 169-185.
- Wang, K., Burov E., Gumiaux, C., Chen, Y., Lu, G., and L. Zhao, Can Metamorphic Core Complexes develop without pre-thickening of continental crust? A case study of North China Craton, *submitted to Lithos*, 2015.
- Zhang et al., 2015. Provenance characteristics and regional implications of Neoproterozoic Timanian-margin successions of Northern Norway. *Precambrian Research*, 268, 153-167.

7. STATEMENT OF ASSETS AND LIABILITIES IN 2015

Statement of Assets and Liabilities

for the period January 1st until November 25th, 2015

ASSETS 2015:

Annual contributions:

1. Annual contribution Denmark:		2,000.00 EUR
2. Annual contribution Finland:		1,000.00 EUR
3. Annual contribution Germany:		5,000.00 EUR
4. Annual contribution Sweden:	(2014 + 2015)	6,000.00 EUR
5. Annual contribution USA:	(8,000.00 USD)	7,129.49 EUR
6. IUGS subvention:	(15,000.00 USD)	14,132.79 EUR
7. IUGG subvention:	(15,000.00 USD)	13,343.00 EUR

Sub-Total: **48,605.28 EUR**

Miscellaneous assets/Excess of former years:

Rest Euro account from 2014: 78,554.94 EUR

Total Assets Euro Account: **127,160.22 EUR**

Total Assets Dollar Account: **2,065.65 USD**
(Rest Dollar Account from 2014)

LIABILITIES 2015

A Scientific Activities

Workshop/Symposium support

- 14th International Workshop on Modelling of Mantle and Lithosphere Dynamics, Oleron, France: 2,000.00 EUR
- ILP's 3rd Potsdam Conference "35 Years of ILP - Celebrating Excellence in Solid Earth Sciences", Potsdam, Germany: 11,888.85 EUR

Travel costs of ILP Officers:

- Travel to IUGG Prague: 522.60 EUR

Project Support/Task Force Support

Theme II: Contemporary Dynamics and Deep Processes

- L. Dobrzhinetskaya – Task Force IV: 3,200.00 EUR
- P. Agard – Task Force IX: 3,200.00 EUR

Theme III: Continental Lithosphere		
• A. Tibaldi – Task Force II:		3,200.00 EUR
• U. Achauer – Task Force V:		3,200.00 EUR
• L. C. Matenco – Task Force VI:		3,200.00 EUR
• E. Burov – Task Force VIII:		3,200.00 EUR
Coordinating Committees (CC)		
• C. Garrido – CC-1/6 MEDYNA:		3,200.00 EUR
Sub-Total Euro Account:		36,811.45 EUR
B Administrative Liabilities		
• Expenses related to ILP secretariat: (secretary, postage, homepage etc.)		1,060.00 EUR
• Bank charges:		252.69 EUR
Sub-Total Euro Account:		1,312.69 EUR
Total Liabilities Euro Account:		38,124.14 EUR
Total Liabilities Dollar Account:		0.00 USD
<hr/>		
Total Assets Dollar Account:		2,065.65 USD
Total Liabilities Dollar Account:	-	0.00 USD
Dollar Account Balance:		2,065.65 USD
Total Assets Euro Account:		127,160.22 EUR
Total Liabilities Euro Account:	-	38,124.14 EUR
Euro Account Balance:		89,036.08 EUR
<hr/>		
Dollar Account:	(2,065.65 US \$)	1,940.94 EUR*
Euro Account:		89,036.08 EUR
Total:		90,977.02 EUR

* Exchange rate on 25 November 2015

WORKPLAN FOR 2016

- Implement new science plan developed during the 35th ILP Anniversary Workshop and the subsequent Bureau Meeting for 2016-2020
- Start new Task Forces/Coordinating Committees
- Several sessions with TF and CC contributions at EGU-GA Vienna, 2015
- Several workshops of individual task forces
- ILP Business meeting at EGU-GA in Vienna, April 2016
- Strengthen links with other IUGG and IUGS programs
- Update new ILP website
- Advertising for new support by national science foundations and industry

Potsdam, 30 November 2015

Sierd Cloetingh, Magdalena Scheck-Wenderoth & Alexander Rudloff