



INTERNATIONAL COMMISSION ON THE HISTORY OF GEOLOGICAL SCIENCES (INHIGEO)

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INHIGEO CIRCULAR 2016, Number 4 December 2016

Dear Members and Friends,

It is a pleasure to greet you again in my function as Secretary-General looking back over a busy year and hoping that the New Year will be equally productive.

We look forward to seeing you all in September at our 2017 Annual Conference to be held in Yerevan (Armenia) where we will celebrate the 50th anniversary of the existence of INHIGEO. In addition to this, three sessions have been accepted by the IUHST for Rio in July 2017.

Over the next few days (i.e. before December 16) please do not forget to submit your expression of interest for our 2017 Annual Conference to be held in Yerevan in Armenia. The deadline for abstracts is 15 April 2017.

In addition your submissions to our "INHIGEO Annual Record" should be with our Editor, Bill Brice, by 31 March 2017, and also nominations for the 2017 membership ballot. Finally INHIGEO Members are also welcome to nominate additional Honorary Senior Members as well as Affiliated Associations for our 2017 ballot. We look forward to hearing from you.

We have got a new website, thanks to our webmaster Johannes Mattes: www.inhigeo.com

Please allow me to express a personal wish for the New Year: I hope that many distinguished young historians of science will be accepted into our community. And I urge all members to encourage these young historians to participate in the Yerevan Conference.

On behalf of the INHIGEO Board, I wish all INHIGEO members a happy holiday season and a prosperous new year in 2017.

Best Wishes to All

Marianne Klemun (Secretary General)

Introductory Comments

I would like to express special thanks to Barry Cooper for his tremendous work, organising the five sessions in Cape Town at our last meeting in 2016. The provisional agenda for the Business Meeting in Cape Town was sent out by Barry Cooper and his minutes are now part of this Circular (see below).

Sadly INHIGEO has recently been informed of the death of Endre Dudich (1934-2016) (Hungary), Deputy Director of the Hungarian Geological Institute. He was a stalwart member over many years as well as Secretary General and an Honorary Senior Member of INHIGEO. Personal messages of sympathy have been sent on behalf of INHIGEO to Endre's family and colleagues. An obituary will appear in the next Annual Record. Endre will be greatly missed.

We are very sad that Michele La Clergue Aldrich (1942-2016) left us. She was a member of the History of Science Society, the History of Earth Sciences Society, the Forum for the History of Geology in America (founding member). She was also a member of the Organization of American Historians, of INHIGEO (International Commission on the History of the Geological Sciences), a member and fellow of the Geological Society of America, a member and fellow of the American Association for the Advancement of Science, and a fellow of the California Academy of Sciences. She held numerous offices in several of these societies including the chair of the Geological Society of America History of Geology Division, and she twice received honorary awards from that organization, including the prestigious Mary Rabbitt Award for Scholarly Achievements in the History of Geology.

UPCOMING CONFERENCES

42nd INHIGEO SYMPOSIUM - YEREVAN, ARMENIA, 12-18 SEPTEMBER 2017

This conference is being planned as the 50th Anniversary INHIGEO conference. It will be organised by the Armenian Institute of Geological Sciences and Armenian National Academy of Sciences. A website has already been established at <http://inhigeo2017.geology.am/>. The First Circular has been distributed. The conference will be held at the Armenian National Academy of Sciences in Yerevan, where the first meeting of INHIGEO was held in 1967.

The conference themes will be:

1. 50 years of INHIGEO
2. Development of geological ideas and concepts
3. History of geology in Armenia
4. Ancient knowledge of stone and metals
5. Studies of historic and prehistoric evidences of seismic and volcanic activity
6. General contributions and biographies of famous geologists

IMPORTANT DATES:

- 16 December 2016 - Deadline for Expression of Interest for symposium and post-conference trips
- 15 April 2017, deadline for abstract submission
- 15 May 2017, notification of acceptance and 2nd Circular
- 15 July 2017, closure of early bird registration for symposium, post-conference trips, accompanying participant's early bird on-line registration fee payment
- Registration fees for symposium and post-conference trips after 15 July will be 450 US Dollars, and 300 US dollars for accompanying participants.

Both mid-conference and post-conference field trips are planned to visit geological, historical and archaeological sites, the geological museum and the Armenian Museum of Ancient Manuscripts (Matendaran).

For any questions please contact the Organising Committee by e-mail at inhigeo2017@geology.am or Khachatur Meliksetian at km@geology.am.

At this time, the Organising Committee is already able and willing to provide official invitations to INHIGEO members who are planning to participate in this landmark meeting.

INHIGEO SYMPOSIA 2019-2021

INHIGEO Annual Conferences for this period are scheduled as follows.

- 2018 – 43rd INHIGEO Conference, 12-22 November, Mexico City
- 2019 – 44th INHIGEO Symposium Como/Varese, Italy
- 2020 – 45th INHIGEO Symposium New Delhi, India (in association with the 36th International Geological Congress)
- 2021 – 46th INHIGEO Symposium, Poland

25th INTERNATIONAL CONGRESS ON THE HISTORY OF SCIENCE AND TECHNOLOGY (25ICHST) – RIO DE JANEIRO (BRAZIL), 23-29 JULY, 2017

The 25th ICHST will be held on the Praia Vermelha campus of the Federal University of Rio de Janeiro (UFRJ), Brazil in July 2017. The overall conference theme is “Science, Technology and Medicine between the Global and the Local”. The conference website is <http://www.ichst2017.sbhc.org.br/>.

INHIGEO will hold three symposia at this congress.

1. “History of Petroleum (origins, exploration and exploitation)”. Convenor is **Silvia F. de M Figueirôa**.
2. “History of Conventional and Unconventional Oil Technologies” with specific focus on:
 - a. "Unconventional History: Sixty Years of Science and Technology in Hydraulic Fracturing"
 - b. "The Workflow of Oil: Upstream, Midstream, Downstream Technologies in 19th and 20th Century". Convenor is **Francesco Gerali**.
3. "Multiple Spaces: Mapping Communication via Letters between Naturalists and Geologists". Convenors are **Marianne Klemun and Johannes Mattes**.

For additional information on INHIGEO’s involvement please contact Silvia F. de M Figueirôa at email silviamf@unicamp.br.

“ABRAHAM GOTTLOB WERNER (1749-1817) AND THE EARTH SCIENCES” - A CONFERENCE CELEBRATING THE BICENTENNIAL ANNIVERSARY OF HIS DEATH, 29 JUNE – 1 JULY 2017, FREIBERG, GERMANY

This symposium focuses on the geosciences from the late 18th until the early 19th century and the impact of Abraham Gottlob Werner’s research and teaching. The following issues are being addressed:

1. Werner’s charisma (analysis of his personality and its outward impact)
2. Europe-wide network and its influence on the progress of earth sciences
3. Transfer of knowledge (history of cartography, history of collections, effect of geoscientific insights on other fields such as fine arts; foundation of mining academies following the Freiberg model)
4. Werner’s students and their impact on earth sciences
5. Teaching in the early years of the Mining Academy (Freiberg)

For further information:

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SPECIAL JOINT MEETING - HISTORY OF GEOLOGY GROUP OF THE GEOLOGICAL SOCIETY OF LONDON (HOGG) – 9 NOVEMBER 2017

A joint meeting of HOGG with the Royal Society of the Arts History Group is being planned for 9 November 2017 at the Geological Society rooms, Burlington House, Piccadilly, London.

The Society for the Encouragement of Arts, Manufactures and Commerce, founded in 1754, was a quintessential enlightenment organisation dedicated to raising the standard of life through encouraging invention, discovery and improvements. To this end it instituted a series of awards covering a broad spectrum of endeavour. Prizes in the field of chemistry, cartography, and land reclamation encouraged the emerging science and field practice of mineralogy and geology.

Although there were direct awards for mineralogical maps of England, Scotland and Ireland, other less direct awards set the scene by enabling geology and mineralogy to develop by exploitation of minerals, by hydrological and coastal defence work and by improved survey. Several prominent people of the time were members of both the Society of Arts and the Geological Society of London as well as other contemporary institutions, notably the Royal Institution.

Papers on the Society, its aims and organisation, its effectiveness in supporting the development of geology and mineralogy, and rivalries with other interested bodies, are being sought for this meeting.

Interested INHIGEO members should contact the HOGG convenor, John Henry at john@geolmaps.com. Abstracts should be received by the convenors by **31 October 2016**.

Minutes of the INHIGEO Business Meeting Room MR 1.62 Cape Town Convention Centre Cape Town, South Africa Monday 29 August 2016

Members Present: Ken Aalto (USA), Chikondi Chisenga (Malawi), Renee Clary (USA), Barry Cooper (Australia), John Diemer (USA), Greg Good (USA), Margaret Hamilton (Austria), Ernie Hamm (Canada), Mike Johnston (New Zealand), Tamara Kamanga (Malawi), Marianne Klemun (Austria), Piotr Krzywiec (Poland), Leonid Kolbantsev (Russia), Charles Lawrence (Australia), Johannes Mattes (Austria), Philippe Taquet (France), Gennadiy Trifonov (Russia), Krystyna Wołkowicz (Poland), Stanisław Wołkowicz (Poland), Michiko Yajima (Japan)

Presiding: Vice President North America, Greg Good (USA), and Secretary General, Barry Cooper (Australia)

1. Welcome and Opening

Vice President Greg Good opened the meeting at 6.00 pm and welcomed members.

2. Regrets and apologies from those unable to attend

Luz Azuela (Mexico), Carol Bacon (Australia), Kennard Bork (USA), David Branagan (Australia), Ana Carneiro (Portugal), Claudine Cohen (France), Karen Cook (USA), Silvia de M. Figueirôa (Brazil), Francesco Gerali (Italy), Rodney Grapes (New Zealand), Algimantas Grigelis (Lithuania), Sandra Herbert (USA), Bernard Joyce (Australia), Martina Koebl-Ebert (Germany), Cherry Lewis (UK), Wolf Mayer (Australia), Gourgen Malkhassyan (Armenia), Khachatur Meliksetian (Armenia), Teresa Salomé Mota (Portugal), Simon Nathan (New Zealand), Sally Newcomb (USA), Martin Rudwick (UK), Gerardo Soto (Costa Rica), John Taylor (New Zealand), Ken Taylor (USA), Susan Turner (Australia), Ezio Vaccari (Italy), Bruce Waterhouse (New Zealand), Patrick Wyse Jackson (Ireland).

3. Arrangement of the agenda

The agenda, as published in the June 2016 Circular, was retained and projected at the meeting.

4. Minutes of the previous meeting held at the Geoscience International Conference Centre, China University of Geosciences Beijing, China

These were accepted unanimously without amendment. Moved Mike Johnston Seconded Ernie Hamm

5. Matters arising from the minutes

There were none.

6. President's Report

Greg Good read the President Ken Taylor's report in his absence. It stated

I wish to express my sincere regrets, in being unable to attend this Congress and its INHIGEO-sponsored sessions, as well as the IUGS Council meeting, and the INHIGEO Business Meeting.

Since my four-year term as INHIGEO President comes to a close with this meeting, it is a fitting time for me to tell you that I am very grateful for having been given the opportunity to serve in this office. It is an honor that means a great deal to me. It has been a pleasure working with such fine colleagues in support of the historical cause we all support. I gladly look forward to serving on the INHIGEO Board as Past President for the coming four years.

Several individuals are now ending terms of service to INHIGEO as members of the Board. I know many others join me in thanking them for their outstanding work on behalf of INHIGEO. They are: Jiuchen Zhang, Martina Koelbl-Ebert, and Greg Good (who have each served two terms totaling eight years as Vice Presidents for, respectively, Asia, Europe, and North America); Ken Bork (who leaves the Board after a dozen years of service, first as Secretary-General then *ex officio* as Past Secretary-General); Silvia Figueirôa (whose service over the past eight years was as President then as Past-President); and Wolf Mayer (who has been our faithful Editor since creation of that post four years ago, and whose achievements include not only production of the *Annual Record* but also his leadership in accomplishing publication of the Commission's celebratory volume for its 50th anniversary).

Barry Cooper is not leaving the Board, but he is switching jobs. Certainly now is the right time for expression of special thanks to Barry for eight years of outstanding service as Secretary-General. We all know he will continue to serve INHIGEO with distinction as its next President.

We can all rest great confidence in those who will be continuing on the Board: In addition to Barry these include Luz Azuela, Karen Cook, and Mike Johnston. Also, there are five individuals to be welcomed with enthusiasm to the Board: Marianne Klemun, Bill Brice, Michiko Yajima, Ezio Vaccari, and Steve Rowland. INHIGEO will benefit greatly by the contributions of these talented and dedicated people.

7. Discussion /Matters arising from the President's report

There was none. The President's Report was received with acclamation.

8. Secretary General's report

Secretary General Barry Cooper reported that INHIGEO has remained very active over past 12 months. Significant activities were summarised as follows:

a) Membership

As of mid-August 2016, INHIGEO had 297 members from 58 countries (including 13 Associate members). This is a small increase on 291 members from 57 countries reported in Beijing last year.

The following deaths have also been notified over the past 12 months

Ian Brookes (Canada)
Jean Gaudant (France)
Emilio Pedrinaci Rodriguez (Spain)

Obituaries for Brookes and Gaudant have already been published in Annual Record #48

b) New Members and Affiliated Associations

The annual membership ballot took place in early 2016 and 14 new members were elected. As a consequence Malawi has become a new country with INHIGEO Members.

In addition INHIGEO approved the “Section on the History of Geological Sciences of the Polish Geological Society” as a new INHIGEO Affiliated Association.

c) INHIGEO Honorary Senior Membership

The INHIGEO Board has also endorsed four new Honorary Senior Members in 2016. These are:

Léo F. Laporte (USA),
Wojciech Narębski (Poland),
Sally Newcomb (USA)
Zbigniew Wójcik (Poland).

Currently INHIGEO has 19 Honorary Senior members

d) Membership Affirmation

As demanded by INHIGEO Terms of Reference, members needed to provide an affirmation in 2016 that they wished to continue INHIGEO membership. Consequently all members were asked to return an affirmation form that was circulated with the March 2016 Circular.

Not surprisingly, by far the great majority of members have responded in the positive. However we have received a very small number of resignations and a few others will likely be removed from the membership register over the next few months given absence of any response and any known recent activity over the past four years on the history of geology.

e) INHIGEO Circular

The quarterly “INHIGEO Circular” continues to be very successful with issues in March, June, September and December of each year, prepared by the Secretary General.

f) The INHIGEO website www.inhigeo.org continues to operate successfully. Continual updating has occurred throughout the past year.

The website remains almost at capacity with respect to the amount of content that it can hold. It would benefit from redesign at some time in the near future.

g) INHIGEO archives

An important development has been the signing of a formal agreement between INHIGEO and the University of Oklahoma Library by which all separate INHIGEO publications will be stored and made available to the general public on the internet.

This initiative has originated from our President Ken Taylor and his UO colleagues Ken Magruder, both very active INHIGEO members.

h) Budget

INHIGEO has had ongoing financial support from IUGS and IUHPS and this has been sufficient to continue a full slate of INHIGEO activities.

9. Discussion / Matters arising from the Secretary General's Report

Members generally agreed that additional Honorary Senior members should be approved.

It was also agreed that all INHIGEO members be approached to see if they could become members of the History of Earth Sciences Society (HESS).

There was also a suggestion that INHIGEO could do much more to promote the Commission and especially to recruit young members.

10. Editor's Report

The Editor, Wolf Mayer, was unable to be present but sent in the following report:

(a) INHIGEO Annual Record

As the outgoing Editor of the INHIGEO Annual Record, this will be my last report to the Commission's yearly Business Meeting. I would like to take this opportunity to thank all the contributors to our annual publication over the last four years and to express my appreciation for the generous support provided to me by many of our members. It has made my task both enjoyable and rewarding.

From the time of taking on this position in 2012, I have compiled and edited four volumes of our annual publication. The first of these (No. 45, issued in 2013) appeared under the original title of INHIGEO Newsletter, while the following three volumes (Nos. 46, 47 and 48) were published under the new title of the INHIGEO Annual Record. Volume 48 was published online in late June and hard copies will be posted to members who have requested them and to institutions, in September.

(b) Anniversary Volume

Our book, marking the 50th anniversary of the founding of INHIGEO, titled *History of Geoscience: Celebrating 50 Years of INHIGEO*, is now in an advanced stage of production. Some 40 articles have been accepted for publication. They cover aspects of the founding and subsequent progress and development of the Commission; analyses and reflections on the history of geoscience and assessments of the value of geological education; as well as studies and reviews on the history of geoscience in a range of countries and regions. Contributions have been received from members on every continent.

Approximately half of the submissions have now passed the proof stage of production and have been published online. The remainder will follow in the next few months of this year. The book is expected to be published in hardback in early 2017 and will be available well in advance of our 50th anniversary meeting in Yerevan, in September of next year. I am confident that the topics covered in the book's many articles will be of much interest to our members and to geoscientists in general.

Now that the contents of the volume have been finalised, I am able to start preparing the 'Introduction' to the book. The thanks we owe to our authors and to the editorial team will be properly acknowledged in this piece.

11. Discussion / Matters arising from the Editor's Report

The report was unanimously accepted with much praise for the Editor's efforts.

11. IUGS Topics

(a) Vladimir V. Tikhomirov History of Geology Award

The INHIGEO Board is delighted that IUGS has honoured Professor Martin Rudwick with its "Vladimir V. Tikhomirov History of Geology Award" for 2016.

The meeting also expressed its enthusiastic support for the award.

(b) Contributions to "Episodes"

Our *Episodes* Coordinator, Karen Cook, sent in a report as follows:

An article about the Third International Geological Congress (3rd IGC), Berlin (1885) contributed by Octavio Puche-Riart; José Eugenio Ortiz-Menéndez, and Luis Felipe Mazadiego-Martínez, has recently been accepted for publication by the Editor of *Episodes*.

Tentative author commitments for articles about the 4th IGC London 1888 and about Hungarian participation in the 15th IGC Pretoria 1929 have also been received.

Assistance with soliciting other contributions to *Episodes* will be appreciated. Several previous IGCs still lack published reports including 9th IGC Vienna 1903, 13th IGC Brussels 1922, and 24th IGC Montreal 1972.

The most recent IGCs about which a report has been published are the 28th IGC in Washington 1989 and the 25th IGC in Sydney in 1976. Offers to fill the gaps by contributing reports about past IGCs will be welcome. Articles about other historical topics of international interest will also be equally welcome. Please contact Karen Cook if you can suggest topics or authors.

13. Future Meetings of the Commission

(a) 42nd INHIGEO Symposium - Yerevan, Armenia, 12-18 September 2017

The Secretary General, Barry Cooper, presented a Power Point on behalf of Khachatur Meliksetian (Armenia) who was unable to be present. This conference is being planned as a 50th Anniversary INHIGEO conference organised by Institute of Geological Sciences, Armenian National Academy of Sciences and will be held at the Armenian Academy of Sciences in Yerevan, the same venue as the 1967 meeting.

Conference themes are:

1. 50 years of INHIGEO
2. Development of geological ideas and concepts
3. History of geology in Armenia
4. Ancient knowledge of stone and metals
5. Studies of historic and prehistoric evidences of seismic and volcanic activity
6. General contributions and biographies of famous geologists

Both mid conference and post conference field trips are also being planned to geological sites, historical sites, churches and cathedrals, archaeological sites, geological museum and the famous Museum of Ancient Manuscripts (Matendaran).

A conference web site has already been established at <http://inhigeo2017.geology.am/>. The Conference Secretary can be contacted at inhigeo2017@geology.am or km@geology.am.

The First Circular is planned for distribution to the full INHIGEO membership by the end of September.

(b) 43rd INHIGEO Conference, November 2018, Mexico City

Nothing further to report

(c) 44th INHIGEO Conference, 2019, Como/Varese, Italy

Nothing further to report

(d) 45th INHIGEO Conference, New Delhi, India, in association with the 36th IGC (2020)

The 36th IGC dates have now been fixed for 2-8 March 2020

(e) 46th INHIGEO Conference Warsaw, Poland (2021)

Stanisław Wołkowicz (Poland) spoke briefly on plans for this conference which will be centred in Warsaw and will have a focus on early oil exploration and the famous Polish salt

mines.

14. Other meetings

- a. 25th International Congress on the History of Science and Technology (25ICHST)

Marianne Klemun spoke about this meeting to be held in Rio De Janeiro (Brazil), 23-29 July, 2017.

INHIGEO is sponsoring three symposia.

“History of Petroleum (origins, exploration and exploitation)”

“History of Conventional and Unconventional Oil Technologies”

"Multiple Spaces: Mapping Communication via Letters between Naturalists and Geologists

Greg Good also supported this Congress with the view that it was an important avenue by which INHIGEO could be promoted to other historians of science.

14. Finalization of the 2016 INHIGEO Membership Ballot

The following were approved as INHIGEO Members/ Associate Members in the 2016 ballot.

China

Yang Mengmeng (Associate)

Italy

Fabiana Console

Marco Pantaloni

Japan

Tomomi Nakagawa (Associate)

Malawi

Chikondi Chisenga (Associate)

Tamara Kamanga (Associate)

Poland

Marek Graniczny

Jerzy Bartłomiej Miecznik

Krystyna Wołkowicz

Russia

Tatiana Feklova (Associate)

Igor Pechenkin

United States of America

Eric C. Brevik

Joe Donald Burchfield

Yildirim Dilek

15. Appointment of 2016-2020 INHIGEO Board

The following appointments, already endorsed by the IUGS Executive, were approved:

President:

Professor Barry J. Cooper (Australia)

Vice-President North America:

Professor Stephen Rowland (USA)

Secretary-General:

Professor Marianne Klemun (Austria)

Vice-President Latin America:

Professor Luz Fernanda Azuela (Mexico)

Editor:

Professor William R. Brice (USA)

Vice-President Asia:

Dr Michiko Yajima (Japan)

Past-President:

Professor Kenneth L. Taylor (USA)

Vice-President Australasia and Oceania:

Dr Michael Johnston (New Zealand)

Vice-President Europe:
Professor Ezio Vaccari (Italy)

Ex officio ('Episodes' Coordinator):
Dr Karen S. Cook (USA)

17. Conclusion

A special thanks and acknowledgements were recorded to the Congress organisers who had had a major task in successfully administrating the 35th IGC

As there was no other business, the meeting concluded soon after 7.00pm

THE NEW INHIGEO BOARD: 2016-2020

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