



INTERNATIONAL COMMISSION ON THE HISTORY OF GEOLOGICAL SCIENCES (INHIGEO)

PRESIDENT: Professor Dr Ezio Vaccari – ezio.vaccari@uninsubria.it
SECRETARY-GENERAL: PD Dr Martina Kölbl-Ebert – M.Koelbl@lmu.de
EDITOR: Professor Dr John A. Diemer – jadiemer@uncc.edu

INHIGEO CIRCULAR 2021, Number 3 September 2021

Dear INHIGEO members and friends,

Welcome to a new INHIGEO Quarterly Circular, which includes among other things the minutes to our INHIGEO Business Meeting of July 22nd, an urgent Call of Interest from our French colleagues for the next INHIGEO Symposium in Les Eyzies and links to the latest issues of our Anniversaries Series. Please remember: If you want to contribute to this series, you are very welcome. Do not hesitate to contact Kathleen Histon (hiscat@interfree.it).

I'd like to use this opportunity to thank all those, who make sure that INHIGEO continues to be a strong and lively enterprise despite the difficulties of the pandemic, particularly our Polish colleagues and their staff and technicians, who have spent so much time and effort to make the online INHIGEO Symposium 2021 possible. It was great to see so many of you presenting your talks and to see your faces at the business meeting. Even though the interaction was minimal, it was interesting as well as emotionally rewarding. It certainly made me long for a future in which on-site meetings will be possible again.

Best wishes to all of you: stay safe!

Martina Kölbl-Ebert
INHIGEO Secretary General

Minutes of the INHIGEO BUSINESS MEETING at the 46th INHIGEO Symposium 19–22 July 2021, Poland online
(July 20th, 2021, 15:30 CEST)

1. Welcome and Opening

President Ezio Vaccari open the Business Meeting and welcome all participants.

2. Regrets and apologies from those unable to attend

In lieu of an attendance sheet, Stanislaw Wołkowicz compiled a list of those who were attending this online business meeting.

Apologies for not attending have been received from Carol Bacon, Mike Johnston and Maria Margaret Lopes.

3. Arrangement of the agenda

The agenda has been sent out to all members by e-mail. There were no requests for modifications:

1. Welcome
2. Regrets/Apologies
3. Arrangement of the Agenda (requests for modification)
4. Minutes of the Previous Meeting, Varese, Italy (2019) – Discussion/Matters arising
5. President’s Report – Discussion/Matters arising
6. Secretary-General’s Report – Discussion/Matters arising
7. Editor’s Report - Discussion/Matters arising
8. Publication and Outreach Coordinator’s Report – Discussion/Matters arising
9. IUGS Topics: Contributions to “*Episodes*”; cancelled IGC New Delhi
10. IUHPST/DHST Topics (International Union of History and Philosophy of Science and Technology)/(Division of History of Science and Technology)
11. Future Meetings of the Commission
12. Finalization of 2021 ballot
13. Vote of thanks for organizers of the 2021 online INHIGEO meeting

4. Minutes of the previous meeting held at Varese Italy

The minutes of the business meeting at Varese, Italy, have been published in the INHIGEO Quarterly Circular of December 2019. Due to the Covid-19 Pandemic, which caused the New Delhi IGC to be abandoned, there was no business meeting in 2020.

5. President’s Report

Ezio Vaccari: Dear INHIGEO Members and Guests,

I am very glad that we can gather again in our symposium and now in this Business Meeting after so long time. Last year and the first half of this year were hard for all of us, but these difficult times, I believe, gave us also more strength for our future.

My report will be short, as the important information and updates will be soon provided by the report from Secretary-General Martina Kölbl-Ebert that I warmly thank for all the great work and commitment in this first year of work together, as well as with all the other members of the INHIGEO Board.

Certainly, the sad news and the recurrent restrictions imposed worldwide by the Covid-19 pandemic since the beginning of 2020, put us in an unprecedented situation. For this reason, as you know, both the IUGS International Geological Congress and our annual INHIGEO meeting, scheduled in March 2020 in New Delhi, were first postponed and then cancelled. However, some other activities throughout the year were maintained and transformed in on-line events: so we were still able to interact and share our studies and researches in the various fields of the history of Earth sciences, even if virtually. And all these activities are now included in the *Annual Record* n. 53 just published and available on the website. It's an impressive text of 180 pages, where the country reports and the other several contents show a lively and active community, which continued to work in different interdisciplinary and multicultural ways in order to publish the results of several research projects. I would like to thank again all of you for your contribution to the making of this issue of the *Annual Record* and in particular our Editor, John Diemer, who collected, organized and assembled this very informative and excellent piece of editorial and scholarly work.

And now we are looking forward with optimism and renewed energy to the future tasks, including the organization of the next INHIGEO annual meetings and hopefully several fieldtrips (which are so important for our work as the scientific sessions themselves).

This year our Polish colleagues and in particular Staszek Wołkowicz, deserve to be warmly thanked for all their efforts in organizing this meeting in virtual format and for having already taken the responsibility to organize a future conference in Krakow.

Then, for the next years, we have already scheduled the annual symposia in 2022 in Les Eyzies in Vézère Valley (south-west of France), thanks to the proposal of our French friends and colleagues from COFRHIGEO; in 2023 in Krakow (Poland); in 2024 at the IGC in Busan (South Korea) and we know that the 2028 meeting will be within the IGC in St. Petersburg (Russia). So, now we are looking for more proposals to host annual symposia in 2025, 2026 and 2027.

The new INHIGEO Board was nominated and took place in September 2020 and I was delighted to begin my term as President with the support of such competent and helpful group of colleagues. During the last months we had started to redefine our tasks (and more will be discussed in the near future), not only for reinforcing the status of our Commission, but also in order to identify possible activities for promoting the history of geological sciences, according to our Bylaws, Objectives and Strategies of our Terms of Reference.

1. The increase of our membership, of course, is an important objective: with particular attention to the quality of research in history of geological sciences, but also with the aim to reinforce the presence of underrepresented and non-represented countries, as well as the proposals of new nomination of young researchers. And I would like to thank again Martina for the impressive work of revision, survey and update of the full list of our membership, completed just a few months ago (she will tell you more on this issue)
2. It is also considered very important to increase and to enlarge the interactions with other IUGS and IUHPST/DHST working groups and commissions, taking part to their meetings and organizing or co-sponsoring together scientific sessions or larger events.
3. In particular, our recent reinforcement of the interaction with the IUGS E-Bulletin and IUGS website staff (for promotion through the *Anniversary series*) and with the IUGS journal *Episodes*, have been warmly received. The chief-editor of *Episodes* Jin-Yong Lee, has stated in an official letter to us “I really appreciate INHIGEO’s interest and kind supports for *Episodes*” and “I eagerly want to cooperate with your Commission about publications from INHIGEO”. Also, IUGS General Secretary Stan Finney, defined as “excellent” our last contribution to the *IUGS 2020 Annual Report*.

We need of course to enlarge the list of our tasks, looking for example to the different forms of outreach and to the organization of all the research and knowledge produced by INHIGEO's members in more than 50 years of life: and we need to do it together.

We are particularly aware of the importance of sharing new ideas and projects for the future of INHIGEO: therefore, the help of all of you is essential (write to us, with proposals, ideas, information, suggestions, not only country report) to make our activities increasingly effective, interesting and also useful for the society in which we live.

6. Secretary General's report

Martina Kölbl-Ebert: I would like to welcome all of you and thank you for your trust and confidence in supporting me as Secretary-General. As you know, I am new to this office and still on a learning curve.

Ezio Vaccari as President, Marianne Klemun as previous secretary general, Kathleen Histon as Publications and outreach Coordinator in particular, but also the other board members have supported me with their experience; for which I am very grateful.

2020 was a tumultuous and challenging year for INHIGEO. Restrictions imposed throughout the year by the Covid-19 pandemic caused the International Geological Congress, which should have hosted our Annual Symposium, first to be rescheduled then abandoned completely. Our business meeting was cancelled along with the INHIGEO sessions "The History of Geology and the Dissemination of Geological Knowledge" organized by Barry Cooper (Australia) and Marianne Klemun (Austria) within the IGC.

This also led to a later appointment for the new INHIGEO Board, as the officers have to be approved of by the IUGS. The new INHIGEO Board (2020-2024) consists of

President: Ezio Vaccari (Italy)

Past-President: Barry Cooper (Australia)

Secretary-General: Martina Kölbl-Ebert (Germany)

Vice-President Africa: Sharad Master (South Africa)

Vice-President Asia: Toshihiro Yamada (Japan)

Vice-President Australasia/Oceania: Carol Bacon (Australia)

Vice-President Europe: Marianne Klemun (Austria)

Vice-President Latin America: Maria Margaret Lopes (Brazil)

Vice-President North America: Steve Rowland (USA)

Editor: John Diemer (USA)

and two ex-officio members, our web master, Johannes Mattes (Austria), and the publications and outreach coordinator, Kathleen Histon (Ireland).

By electing a Vice President Africa, INHIGEO asserts its global orientation.

As our last business meeting has been cancelled, let me pick up words which our past-secretary general, Marianne Klemun has written last year:

"It is our special wish to thank the parting board members. We would first of all like to express her gratitude to Ken Taylor as past-president who always responded to her queries on INHIGEO matters and provided excellent advice. He invented the "Anniversaries" that are particularly successful with the IUGS.

We thank Luz Fernanda Azuela for organizing the wonderful conference in Mexico and being an esteemed and active member of the board. The same is true for Michiko Yajima who has particularly helped with the Japanese INHIGEO branch and its members. We would also like to mention Mike Johnston who wrote all the outstanding reports on INHIGEO field trips and was very helpful in editing Marianne's official correspondence. Our thanks go to Bill Brice who was ever so patient in editing our

Annual Record, a truly demanding task, and finally, we would like to thank Caren Cook for undertaking the task of Publications Coordinator. Thank you all very much!”

Following the aim of strengthening the relationships with other commissions and affiliated groups within the IUGS and the IUHPST (International Union on the History and Philosophy of Science and Technology), by supporting dialogue among scholars of different disciplines, our Commission sponsored a symposium on the topic “From technical practice to the visual representation of the features of the Earth: travels, tools, fieldwork” at the 9th Conference of the European Society for the History for Science (ESHS), held online in September 2020 and organized by INHIGEO members. The papers presented during this session focused on the evolution of the forms of representation in stratigraphy, geomorphology, volcanology, geological cartography, as well as on the important role of mineralogical and petrographic samples collected in the field and then assembled in considerable collections or used as building stones of historical value. The development of various techniques connected to geological research has produced several forms of knowledge and representation of the Earth and its features: the symposium allowed discussion of this topic within different points of view and with an interdisciplinary approach.

Other conferences with sessions devoted to the history of the geological sciences have been postponed as well or organized as online meetings. INHIGEO as well had to adapt and so, somewhat regretfully, we are in the middle of an online version of the INHIGEO Annual Symposium instead of being able to meet each other in person. Despite the calamity, however, our Polish colleagues have put together a voluminous schedule of presentations, plus they have agreed to host the 2023 INHIGEO Annual Symposium on site in Cracow: Thank you very much!

Membership development:

A major task of recent months – a task which according to our bylaws has to be undertaken every four years – was the updating of our membership list and to ask everybody whether they want to remain a member of INHIGEO. Response to this call is about the only duty an INHIGEO member may not neglect. I assure you that I have not taken this task lightly, and I am really grateful to those of you who have responded right away. It took me months to try to contact missing members, each and everyone of them receiving up to five different calls, I tried to google them. Unfortunately, this was in vain in too many cases: I do not know whether these people are just no longer interested in INHIGEO, have changed their e-mail-address, retired or moved to a different job, or how many of them died over the last four years without us knowing it.

Thus, our membership was reduced to 262 members. (That’s a loss of 40 members!). This is an enormous figure, and what is even more tragic: we have lost whole membership countries!

Therefore, I want to ask you all a favour: Please compare the membership list in our new annual record with the previous one. Should you know the whereabouts of any missing members: Please provide me with their new contact details or ask them to contact me.

Publications and Outreach:

The quarterly “INHIGEO Circular” continues with issues in late March, June, September and December of each year, prepared by the Secretary-General and sent out by e-mail. If you for some reason do not receive these mailings: please contact me.

The INHIGEO website is in the capable hands of Johannes Mattes: Thank you very much! It is continuously updated and expanded.

In her report, Publications and Outreach Coordinator Kathleen Histon, will give you some information about recent developments. More content is to come, e.g., information about membership. I will inform you in the Quarterly Circulars, when new features are added.

We have also extended our cooperation with the international History of Earth Sciences Society (HESS) and its journal *Earth Sciences History*, where the Proceedings of the Mexico meeting have been published in 2020 as “Papers from the 2018 INHIGEO Meeting, Mexico City” edited by Luz Azuela, and “Geological Agency in the Early Modern Period”, edited by Tina Asmussen and Pietro Daniel Omodeo.

Our editor of the INHIGEO Annual Record – the new issue is now available for download on the INHIGEO website – is also editor of *Earth Sciences History*. You will hear his report later in this meeting.

On the other hand, there is still a slight backlog with our publications, the publication on Armenia with Springer publishing house is in preparation, and the Varese-Como conference volume will be published in Italy, within a special issue of the international journal of history of science *Physis*. Ezio Vaccari, as editor of this volume, reports that the editorial process has been slightly delayed from the original plan, but the authors will be soon informed and the publication is scheduled for the end of this year or the beginning of 2022.

Awards:

The highlight of INHIGEO achievements in 2020 concerned one of the IUGS Scientific Awards of Excellence, the V.V. Tikhomirov Award for History of Geology, which was presented to our honorary senior member and former INHIGEO President (1992–1996) David Branagan, a well-known geologist, scholar and historian from Sydney, Australia.

Moreover, for their contributions to the history of geological sciences, our current President Ezio Vaccari (University of Insubria, Varese, Italy) was the recipient of the 2020 Mary C. Rabbitt History and Philosophy of Geology Award of the Geological Society of America, while our current Editor of the INHIGEO Annual Record, John Diemer (University of North Carolina at Charlotte, USA) was the recipient of the 2020 Gerald M. and Sue T. Friedman Distinguished Service Award of the Geological Society of America. Also, our young colleague and INHIGEO member Maddalena Napolitani was awarded in 2020 by the Italian Geological Society with the new prize “Quintino Sella for the History of Geosciences in Honour of Nicoletta Morello and Bruno Accordi”. Past-President Barry Cooper was awarded the Tom Vallance Medal of the Geological Society of Australia for 2021 for his contribution to the history of geology. The medal has been presented on 13 May, 2021.

My sincerest congratulations to all of them!

INHIGEO archives:

In 2015, a formal agreement between INHIGEO and the University of Oklahoma Library has been signed, by which all separate INHIGEO publication will be stored and made available to the general public on the internet. This initiative originated from our past-president Ken Taylor and his UO colleague Kerry Magruder who is also an INHIGEO member.

High on my ToDo-List is now establishing regular contact with Kerry and to implement a page on our Website dedicated to the archive and its accessibility for INHIGEO members.

Budget:

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

7) Editor's Report

Report from John Diemer: The 53rd Number of the INHIGEO Annual Record covers activities by members for the year 2020 as well as some activities from earlier years. A PDF of the 182 page 53rd Annual Record was posted on the INHIGEO website on July 18, 2021. Printed copies that have been requested by about 25 members will be mailed in August, 2021.

Despite the disruptions caused by the pandemic, members of INHIGEO were very active in 2020 as reported by both individuals and country representatives, all of whom are thanked for providing updates. A full range of topics appear in the 53rd Annual Record including: notices of future INHIGEO conferences through 2024, reports on relevant conferences that took place during 2020, awards received by members, two obituaries, three volunteered articles, three book reviews, and 25 country reports. In addition, there are several appendices including the INHIGEO virtual bibliography compiled by Francesco Gerali which for 2020 includes submissions from Italy, Japan, Latvia and Lithuania. Among the appendices are listings of Honorary Senior Members, new members, and the full membership. Please keep the Secretary-General apprised of any changes in contact information so that the Membership list can be kept current.

It was a pleasure to correspond with so many INHIGEO members during the last several months, and I look forward to working with all of you next year as No. 54 is assembled.

8) Publication and Outreach Coordinator's Report

Kathleen Histon:

Anniversaries Series: Only one item was published during 2020: IUGS E-Bulletin 169, August 2020, Kenneth L. Taylor: Scientific Examination of the Falun of Touraine, 300 Years Ago. A webpage has been created by Johannes Mattes on the INHIGEO website where now the Anniversary contributions are available to download as pdf files. Contributions are organized and ongoing for each month of 2021 starting from February 2021 – these are posted firstly on the INHIGEO website, then on the IUGS homepage news – this means something by INHIGEO constantly on this page and then published in the monthly issue of the IUGS E-Bulletin. Five anniversaries have been published to date for 2021 with a wide geographical range.

Episodes: Authors now have been found to complete the remaining papers of the History of the IGC Series and these projects are in progress with agreed submission dates. Agreement with two authors for papers within the Classic Papers Series with agreed submission dates have been reached. A list of papers published in both series was added under the Research Publications webpage on the INHIGEO website with links to the papers on the journal Episodes homepage, where they can be downloaded free of charge. Together with Johannes Mattes and Martina Kölbl-Ebert additional information is added to the INHIGEO Website regarding publications and we are working on various ideas for promotion.

9) IUGS Topics

As Kathleen Histon has shown, we have increased our publication effort with the IUGS. If you have an appropriate manuscript please submit it to Episodes as amongst other things it helps raise the profile of INHIGEO. I encourage you to contact Kathleen Histon before you do so as she might be able to help with the submitting procedure.

Online IUGS Executive Meeting October 28th to 30th, 2020: Due to the pandemic the latest IUGS executive meeting to place online. The meeting was attended by Ezio Vaccari as President and Martina Kölbl-Ebert as the Secretary General. INHIGEO was asked to present a pre-recorded 5minutes video-report for the previous 4 years of our activities, which was

prepared and presented by the Secretary General. The report, which was also published in the IUGS website during the meeting, was welcomed and received a positive feedback by the IUGS Council.

10) IUHPST/DHST Topics (International Union of History and Philosophy of Science and Technology) / (Division of History of Science and Technology)

Report on International Union of History and Philosophy of Science and Technology/Division of History of Science and Technology (IUHPST/DHST), by Gregory A. Good, member of DHST Council, 2017–2021:

INHIGEO is an “Inter-Union Commission,” affiliated with both the International Union of Geological Sciences and the International Union of History and Philosophy of Science and Technology. IUHPST has two divisions, the Division of History of Science and Technology and the Division of Philosophy of Science. INHIGEO is affiliated in particular with the historical division.

The Council of DHST has a few main responsibilities. First, it organizes the International Congress for history of science every four years (2013 in Manchester, 2017 in Rio de Janeiro, and this year (in principle) in Prague. The location of the next congress will be decided next week in a General Assembly at the Prague Congress. A second responsibility of DHST is to support the international commissions with small annual grants, targeted toward communication and toward supporting early career scholars to attend meetings in person. Because no in-person congress is taking place this year, DHST council decided in December 2020 to not fund travel this year. Support for website work was allowed to continue since it is central to most of our communications.

The DHST Council awards an Essay Prize in History and Philosophy of Science. In 2021 the awardee is Ms. Marlis Hinckley of Johns Hopkins University, USA, for her essay “Misinformation Age: What early modern scientific fakes can tell us about today’s online fabrications.” DHST also named four DHST Dissertation Prize Laureates to students at institutions in China, Sweden, Canada, and the USA. See the details at <http://dhstweb.org/awards/dhst-dissertation-prize>. INHIGEO should be sure that students writing dissertations in history of geology submit applications in future years.

Next week (Tuesday and Wednesday), INHIGEO will present a three-session symposium at the Prague Congress “Great to small: spatial and temporal scales in the history of the geosciences” organized by Gregory Good (USA) and Marianne Klemun (Austria). (Symposium IDs 504 through 506). Speakers are Gregory Good, Ernst Hamm, Ezio Vaccari, Claudine Cohen, Silvia Figueiroa, Pratik Chakrabarti, Michiko Yajima, Mariana Ferrari Waligora, Toshihiro Yamada, Renee Clary, Maria Margaret Lopes and Martina Kölbl-Ebert

11) Future Meetings of the INHIGEO Commission

The 47th INHIGEO Symposium will be held in September 16th to 20th, 2022 at Les Eyzies in southwestern France, a venue well-known for its many prehistoric sites. The main scientific themes of the conference will be:

- History of Quaternary geology, prehistory and geology of caves; and
- History of Miocene geology, since the region includes the Burdigalian and Aquitanian stratotypes;

In addition, pre- and post-conference excursions are in planning. We expect a first circular with the call for papers from our French colleagues in September this year. You will be informed via the INHIGEO Quarterly Circular.

For 2023, our Polish colleagues, namely Krystyna and Stanislaw Wołkowicz, have graciously agreed to make another attempt for an on-site INHIGEO meeting in Krakow. Thank you so very much!

In 2024 – 49th INHIGEO Symposium will take place in South Korea, (in association with the 37th IGC).

We are now looking forward to proposals by INHIGEO members for hosting INHIGEO meetings in 2025 and following years: Please contact me or any other member of the INHIGEO Board, if you have any suggestions (In 2028, we will be in Sankt Petersburg, with the IGC).

Additional information: The week after our business meeting the DHST General Assembly voted on the venue of the 27th International Congress of History of Science and Technology (ICHST). It will take place in Dunedin, New Zealand, in 2025. I.e., the 50th INHIGEO Symposium 2025 will take place in New Zealand.

12) Finalization of 2021 ballot

Over the past few months, the INHIGEO Board has reviewed members' suggestions for new INHIGEO members and we are pleased to announce that nine new members have successfully applied:

- as associate members: **Marie-Françoise Aufrère** (France), **Grigory Ilyin** (Russia) and **Rehan Opperman** (South Africa)
- as ordinary members: **Philip John Currie** (Canada), **Françoise Dreyer** (France), **Olga Martirosyan** (Russia), **David (Bruce) Norman** (UK), **Cameron Roy Penn-Clarke** (South Africa) and **Patrick D. Roycroft** (Ireland).

A warm welcome to all of them!

As always, INHIGEO encourages proposals of new memberships, in particular from non-represented countries and from young researchers. So, if you know of any suitable candidates, please do not hesitate to submit nominations for the next ballot, which will take place in spring 2022. As a result of this year's ballot, INHIGEO currently has 271 members worldwide.

Apart from ordinary and associate members, INHIGEO recognizes also Honorary Senior Members, who are proposed by the INHIGEO Board from amongst the extant INHIGEO membership, in recognition of their significant contributions to the field of the history of geological sciences and/or to INHIGEO. Such proposals require the endorsement of the INHIGEO members present at the INHIGEO Business Meeting. The current INHIGEO Board had the pleasure to propose two long-standing INHIGEO members as Honorary Senior Members:

- **Ken Taylor** (USA) for his outstanding research work and publications in the history of geological science, as well as for his contribution to the INHIGEO Board
- and **J.B. (Bruce) Waterhouse** (New Zealand), who was among the founding members of INHIGEO and actively shaped the early activities of our Commission during the 1970s.

The participants endorsed these suggestions by acclamation: Congratulations!

13) Vote of thanks for organizers of the 2021 online INHIGEO meeting

INHIGEO President, Ezio Vaccari, heartily thanked the organizers of the 2021 INHIGEO meeting, particularly Krystyna and Stanislaw Wołkowicz, and also the technical staff, who made this online meeting possible. The delegates of the meeting agreed with a round of applause.

47th INHIGEO Symposium 2022 at Les Eyzies in southwestern France

Dear Members of INHIGEO,

the Comité français d'Histoire de la Géologie (COFRHIGEO) will organize the 2022 INHIGEO Congress in France, in September 2022, in the Périgord region (southwestern France). The main venue of the congress will be Les Eyzies, a picturesque village in the Vézère Valley, otherwise known for its many prehistoric sites (Lascaux, Cro-Magnon, La Madeleine, Font de Gaume, Combarelle, etc.). We present here a program which is still provisional and subject to possible revision.

Périgord is an active tourist region with many accommodation offers at reasonable prices (hotels, AirBnB). There are also accommodation possibilities in Les Eyzies, notably the Maison François Bordes, managed by the University of Bordeaux. The village is also well served by train from the city of Bordeaux.

Conference talks and poster sessions will take place at the Musée national de la Préhistoire [National Museum of Prehistory] of Les Eyzies, from September 16th to 20th, 2022. The 4-day conference would include three days of talks and scientific activities, and one-day excursion in the Vézère Valley (Lascaux IV, Combarelle, Font de Gaume...). The main scientific themes will be:

- History of Quaternary geology, prehistory and geology of caves;
- History of Miocene geology, since the region includes the Burdigalian and Aquitanian stratotypes;
- Other sessions of the conference will cover all subjects related to the history of geosciences.

In addition, pre- and post-conference excursions, subject to independent pricing and organization, will be planned:

- Pre-conference excursion, from Poitiers to Les Eyzies (September 15th): The impact sites of Chassenon-Rochecouart resulted from the fall of an asteroid in Triassic times. Molten and brecciated rocks, observed by Desmaret in 1773, were long taken for volcanic rocks, and remained a geological enigma until the 1960s, when the impact origin was recognized.
- Post-conference excursion, from Les Eyzies to Bordeaux (September 21st to 24th [?]): The Vézère Valley and other prehistoric sites further south, in Périgord, Quercy and possibly Ariège, will be visited. The excursion will end with the Miocene sites of the Bordeaux region: Sainte-Croix-du-Mont (studied since 1620); the Saucats and La Brède Natural Geological Reserve (Burdigalian and Aquitanian stratotypes, Montesquieu's house). Some Bordeaux vineyards and cellars, notably the Bordeaux Wine Museum, will also be on the program.

The Conference program will be supervised by a Scientific committee, chaired by Philippe Taquet, former president of the INHIGEO and current president of the COFRHIGEO. The material organization (registrations, financial management) will be entrusted to an organizing committee, chaired by Claudine Cohen and Pascal Richet. It will benefit from several sponsorships and the services of the association Naturalia et Biologia. The abstract and excursion booklets, written in English, will be published in digital formats, and if possible, in hard copy.

After a year of pandemic, we invite you with great pleasure to come to Les Eyzies for a congress which will be the occasion to meet again and to visit interesting sites in a pleasant region.

To make planning easier, COFRHIGEO invites you to express your interest in participating at the conference:

- Are you interested to participate in the 2022 conference in France?
- Do you intend to offer an oral presentation / a poster?
- Are you interested in an accompanying persons programme?
- Are you interested in the pre-conference excursion / post-conference excursion?

Please send an e-mail addressing these questions to cohen@ehess.fr no later than **September 30th** with the heading "INHIGEO 2022".

With best wishes

For the COFRHIGEO,
Claudine Cohen & Gaston Godard

Anniversaries Series for the IUGS Website and E Bulletin: new papers published!

Carol Bacon (Australia):

William Frederick Petterd (1849–1910) and Tasmanian Mineralogy

The author of the first catalogue of the minerals known to occur in Tasmania, William Frederick Petterd (1849–1910), died just over 110 years ago, on 15 April 1910. He had an extraordinary interest in the natural world and when little more than a boy he was looked upon as an authority in matters relating to Australian conchology and entomology. He travelled widely through parts of Polynesia and Queensland on collecting expeditions and described 244 species of minerals, 40 of which had not been recorded in other parts of Australia, including crocoisite (crocoite), PbCrO_4 , (now the State mineral emblem of Tasmania).

IUGS E-Bulletin 175, June 2021;

http://www.inhigeo.com/anniversaries/INHIGEO_Anniversary_Petterd.pdf

Martina Kölbl-Ebert (Germany):

From Volcano to Impact Crater: Shifting a Paradigm

In 1961, one of the greatest geological mysteries in Germany was finally solved by the discovery of high-pressure minerals. Ries Crater was no volcano but had to be an impact crater. The ensuing debate changed local scientific culture from simple field-geology to a more chemically/physically oriented geoscience, from local to global and even interplanetary perspectives and, last but not least, from chauvinism to international cooperation.

IUGS E-Bulletin 176, July 2021;

http://www.inhigeo.com/anniversaries/INHIGEO_Anniversary_Volcano.pdf

Toshihiro Yamada (Japan):

Takuji Ogawa (1870–1941): Japanese geographer-geologist founder of the Geology Department in Kyoto University in 1921

From studying earthquakes, Japanese geologist Takuji Ogawa was ahead of his time in recognizing the importance of earth mantle processes in the formation of mountain chains and island arcs.

IUGS E-Bulletin 177, August 2021;

http://www.inhigeo.com/anniversaries/INHIGEO_Anniversary_Ogawa.pdf

New Membership Page on INHIGEO Website

The INHIGEO Website has now a new page dedicated to membership issues, informing about the number and whereabouts of current members and how to become a new INHIGEO member. See: <http://www.inhigeo.com/membership.html>

Job Offer

The *Technische Universität Berlin* offers a Tenure Track Professorship in History of Science. See: <https://tub.stellenticket.de/de/offers/103164>
Deadline for application: November 4th, 2021.

Book on Women in Geology from Argentina and Chile

The Geological Association in Argentina (AGA), just published a book entitled: *La Mujer en Geología* (Women in Geology). It can be downloaded free of charge via this link: <https://drive.google.com/file/d/1tIJP2ptzx8JGhwhLpoybtbkm74HLV699/view?usp=sharing>

Extended abstract: This Special Publication presents those pioneering woman geologists who excelled in teaching and in research, as well as in the professional field. The main objective was to rescue them from oblivion, present and past, presenting biographies or reviews of their lives, illustrated with vintage photographs and other documents that allow rebuilding the environment where they were developed and their unequal struggle to advance in the field of Earth Sciences. These 17 contributions described by chronological order the woman geologists from XIX century to the twentieth, and early decades of the XXI. The received contributions cover most of the different schools of Argentina and also from Chile.

One fact to highlight is that these pioneers, due to difficulties of the time, they were dedicated mostly to cabinet work, mainly Mineralogy and Petrography, with notable exceptions; field work at that time was reserved exclusively for men. However, in their stories are seen a growing participation in these tasks and a progressive integration of women in Geology, although there is still needs for equal rights and opportunities in different areas, education, public and private works and diverse specializations, but the numerous Argentine and Chilean woman geologists stand out.

Contributions begin with the story, narrated by Carolina Silvia Parejas, from the pioneer of Seismology in Chile and also from the world, Maria Graham, who published her results in 1824, being the first woman to do it in a leading British media. She fought against ideas and hypotheses of the time, getting to have a controversy on the origin of earthquakes with the director of the Geological Society of London. An international debate was generated who agreed with Maria, who held modern ideas in times when science was written by men.

Ricardo N. Alonso tells us the story of the first mining woman business from Salta in the 19th century: Doña Ascención Isasmendi de Dávalos. She was a widow, with five children that had to face her survival though the manufacture of wines and the mineral extraction of borates. Without being a geologist, her life was signed, in part, by an activity questioned today by certain sectors of society: mining.

Teresita Montenegro and Andrea Concheyro tell us about Edelmira Mórtola's life, the first woman geologist to obtain a degree at the University of Buenos Aires (UBA) and in the country. She became a professor of Mineralogy at that institution, where she promoted a Natural

Science Museum of rock and mineral collections. She was an important consultant in academic and public affairs in our country. Edelmira was the first woman in 1956 to be promoted to full professor in the Exact and Natural Sciences School of the UBA, after decades of male predominance in the main teaching positions.

Beatriz Aguirre-Urreta and Victor A. Ramos reconstruct the future of the first five woman geologists graduated from the University from Buenos Aires between 1920 and 1935: Edelmira Mórtoła, Jova Yussen, Zulema Chiesa, Adela Mangano and Paulina Mühlmann. These women worked in different fields: university academy, oil industry, mining and high school education. Their jobs were concentrated on cabinet tasks rather than field, highlighting their works in Mineralogy and Petrography. The authors emphasize that, of the first 10 graduates, five were women, and show the differences in opportunities between women and males in the early twentieth century in our country, mainly in Buenos Aires. Ricardo J. Calegari tells us about the life story of María Casanova, Italian chemist and petrographer, organizer of the first petrographic laboratory of National Oil Company (YPF) in the late 1920s. She had important contributions to the description of the stratigraphic column of the San Jorge Gulf Basin, the first oil producing basin of Argentina, contributing also to geological knowledge throughout the country, together with her disciples. She was a professor at the Petroleum Institute of the University of Buenos Aires and took part in 1946 in the founding of the Argentine Geological Society.

Ricardo N. Alonso shows us a little-known activity, as an oil and mining woman business, of the great sculptor who was Lola Mora, an advanced woman and often forgotten of the Argentine culture. Lola knew how to chisel in one of the most iconic rocks in geology, marble, beautiful sculptural works dedicated to myths and universal values. Notably, in 1926, she conducted chemical and geological research on unconventional oil sources in the oil shales of the Cretaceous Yacoraite formation and she also conducted searches for gold, copper, and sulphur on the Argentine Puna.

Victor A. Ramos rescues the story of Pierina Pasotti, teacher, pioneer geologist and geographer in the Neotectonics of the Pampean plains, with more than 60 years of activity and many disciples formed in her long academic career as a teacher. She was the first emeritus professor appointed by the University of Rosario in 1969. She was born in Argentina and studied in Italy, where she graduated from University of Turin in 1927. Upon her return, she revalidated her title in 1951 in the National University of Córdoba. She served in the national universities of the Litoral and Rosario and in institutions of secondary education in the city of Rosario. Her work allowed us to know, in greater depth, the neotectonic aspects of the Argentine Pampas in general and the province of Santa Fe in particular.

Roberto D. Martino recounts the academic and family life of Josefa Vicenta Giambastiani de Peláez, first woman doctor in Natural Sciences, specialty Geology and Mineralogy, from the National University of Córdoba, degree awarded in 1931. Excellent petrographer and mineralogist, she was an exceptional teacher in secondary schools, well known in the city of Córdoba and in the main cities of the province such as San Francisco and Río Cuarto. She wrote numerous books for the secondary schools and stood out as an exemplary mother, giving a university education to her five children in the difficult times of the Great Depression crisis that affected most of the countries in the world.



Paulina Mühlmann in the field at 1937.

Silvia J. Ametrano and Silvia I. Carrasquero put in perspective the lives of woman graduates of the National University of La Plata in the early twentieth century, a complement of the work of Beatriz Aguirre-Urreta and Victor A. Ramos on women graduated from the University of Buenos Aires in the same period. The authors highlight the role of the first woman graduate in 1932, Sarah Cortelezzi, and her sister Juana. The latter was the first teacher appointed at the National University of La Plata, with active academic participation. Another graduate, María Magdalena Rádice, made important contributions to the description of the rhodochrosite and she was director the Forensic Laboratory of the Police of the Province of Buenos Aires.

Marian A. Tanuz highlights the life of Paulina Mühlmann, doctor in Natural Sciences, head of laboratory, petrographer and field geologist. This last activity was notable for her time, since it is recorded as a record in her doctoral thesis of the year 1935, she was the first woman geologist who made this type of work at the University of Buenos Aires, which were strictly reserved for her male colleagues.

Aldo A. Bonalumi rescues María Afazani de Juárez, a petrologist and professor at two universities (Córdoba and Río Cuarto) and petrographer of the Ministry of Mining of the Province of Cordoba. He remembers her with special affection (one of the editors of this Special Issue was her student) because of her dynamism, knowledge of rocks and immense didactics to convey concepts that are often dry and sometimes very complex. "Doctora Juarez", as she was called with much respect, knew how to earn a place in all those attending Petrology in the 1970s.

Esteban Passeggi and Alejandro F. Zucol, disciples of Hetty Bertoldi de Pomar, tell us about the precursor in our country of phytolytic studies, one of the promoters of the discipline at national and global level. Born in Santa Fe and a graduated in the Universidad Nacional of Córdoba, she worked at the Universidad Nacional del Litoral, in the public sphere of the Province of Santa Fe and in CONICET. In her later years she continued to take courses and conferences, passing away in the year 2020.

Silvia Ametrano, Teresita Montenegro, Norma Pezzutti and Jorge Coniglio remember Milka Kronegold de Brodtkorb, graduate from the University of Buenos Aires, specialized in Germany on mineralogical and metallogenetic issues. Stand out her long scientific and teaching career, training of her disciples and her many contributions reflected in publications at national and international levels. Milka was named Academician in the National Academy of Sciences of Córdoba, receiving numerous awards from the Asociación Geológica Argentina and the Strobel Award from the University of Buenos Aires. The authors make a review of her whole life oriented to the study of mineral deposits; Milka passed away in 2019.

Patricia Narvárez Dinamarca tells us the story of the pioneers at the University of Chile, at the time of its creation, in the 1950s to 1970s. This group of women, composed of Cecilia Verdejo (first qualified geologist), Sonia Mehech, Gloria Valenzuela (Engineering Applied Geology), Gloria Mancilla (Hydrogeology), Patricia Narvárez Dinamarca (Mining and Exploration) and Margaret Mercado (Regional Geology), paved the way for the presence of the woman in the Geology of Chile.

Roberto D. Martino brings us the portrait of Juana N. Rossi, petrologist with a strong orientation to petrographic mineralogy using loose grain techniques and the development of knowledge about metasomatic rocks. Her trajectory began in Córdoba with the study of marbles and skarns in the quarries of Alta Gracia, she continued in Italy with the metamorphic rocks of the Adamello contact and ended in Tucuman University. In this institution at the Natural Sciences School and Miguel Lillo Institute, she carried out numerous investigations and training disciples in the field of Mineralogy, Petrography and Geochemistry.

Ricardo N. Alonso rescues us the life and work of Margarita Toro, paleontologist, specialist in Paleozoic fauna and social activist in the villas of the city of Salta. Kidnapped, imprisoned, tortured and forced to leave the country, she was developed as a researcher and

teacher at the Universidad Mayor of San Andrés in Bolivia, managing to be one of the benchmarks of the Bolivian Paleontology.

Finally, and to close the contributions to this Special Issue, Juan P. Lovecchio, María L. Rodríguez Schelotto and María F. Raggio tell us about the experiences of woman geologists who started their professional careers between 1970 and 1990 in the oil industry and particularly in the YPF company. They present the testimonies and experiences of Gladys Angelozzi, Graciela Covellone, Licia Manacorda, Viviana Meissinger, Angela Melli, Muriel Miller, María Luisa Rodríguez Schelotto and Silvia Zencich. The authors highlight the current search for equal rights and opportunities of female geologists in the oil and gas industry long way to go.

From: Ricardo N. Alonso
INHIGEO member
Salta, Argentina

Contact Details of the Current INHIGEO Board

President: Prof. Ezio Vaccari (Italy) – ezio.vaccari@uninsubria.it
Past-President: Prof. Barry Cooper (Australia) – Barry.Cooper@unisa.edu.au
Secretary-General: Dr Martina Kölbl-Ebert (Germany) – M.Koelbl@lmu.de
Vice-President Africa: Dr Sharad Master (South Africa) – Sharad.Master@wits.ac.za
Vice-President Asia: Dr Toshihiro Yamada (Japan) – tosmak-yamada@muf.biglobe.ne.jp
Vice-President Australasia/Oceania: Carol Bacon (Australia) – gclota@trump.net.au
Vice-President Europe: Prof. Marianne Klemun (Austria) – marianne.klemun@univie.ac.at
Vice-President Latin America: Dr Maria Margaret Lopes (Brazil) – mariamargaretlopes@gmail.com
Vice-President North America: Prof. Steve Rowland (USA) – steve.rowland@unlv.edu
Editor: Prof. John Diemer (USA) – jadiemer@uncc.edu
Web Master: Dr Johannes Mattes (Austria) – Johannes.Mattes@oeaw.ac.at
Ex officio (Publications and Outreach Coordinator): Dr Kathleen Histon (Ireland) – hiscat@interfree.it

Next Circular

Dear INHIGEO members, you will receive the next circular with information updates around December 21st. Until then: Take care and stay healthy!

Kind regards
Martina Kölbl-Ebert