



## INTERNATIONAL COMMISSION ON THE HISTORY OF GEOLOGICAL SCIENCES (INHIGEO)

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### INHIGEO CIRCULAR 2024, Number 3 September 2024

Dear INHIGEO members and friends,

This new INHIGEO Quarterly Circular contains the minutes of the INHIGEO business meeting held at the IGC in Busan and information on upcoming INHIGEO meetings. Please note that there are important **deadlines** to be met **concerning the 2025 INHIGEO meeting in Dunedin** (New Zealand) as to submission of abstracts and expression of interest to attend the INHIGEO fieldtrip, and **concerning a session on history of forensic geology** in May next year.

The circular also alerts you to the latest INHIGEO publications, presents a new Early Career Research Profile and reports from the presentations of two INHIGEO Awards.

Maddalena Napolitani and Victor Monnin are organizing a new INHIGEO Webinar. As those, who have attended the previous ones, know, they are splendid events and I invite you all cordially to attend the next of these inspiring webinars.

With kind regards and best wishes to all of you

Martina Kölbl-Ebert  
INHIGEO Secretary General

# Minutes of the INHIGEO Business Meeting

Busan (South Korea), August 28<sup>th</sup>, 2024

## 1. Welcome and Opening

INHIGEO President Ezio Vaccari opened the Business Meeting and welcomed all members present.

## 2. Regrets and apologies from those unable to attend

Apologies have been received from Silvia Figueiroa, Gregory Good, Pietro Daniel Omodeo, Irena Malakhova, Francesco Gerali, Margaret Lopez, Gerardo Soto, Carl Drummond.

## 3. Arrangement of the agenda

The agenda was sent out to all members via e-mail on August 16<sup>th</sup>. Shortly before the meeting, point 13 was inserted:

1. Welcome
2. Regrets/apologies
3. Arrangement of the agenda (requests for modification)
4. Minutes of the previous meeting, Cracow (2023) – 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
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; IGC 2024 in Busan (South Korea) and fieldtrip to Japan
12. Finalization of 2023 ballot
13. Awards
14. Vote of thanks for organizers of the 2023 INHIGEO meeting

## 4. Minutes of the previous meeting

The minutes of the business meeting in Cracow, 2023, have been published in the INHIGEO Quarterly Circular of September 2023.

## 5. President's Report

Dear INHIGEO Members and Guests,

since we met last year in Cracow for our 48<sup>th</sup> annual meeting and fieldtrips, a significant amount of activities was undertaken by our Commission to date.

INHIGEO members were busy in organizing some remarkable meetings and participating to several interesting conferences worldwide. In particular, the new "INHIGEO Webinar Series" entitled *New Perspectives in the History of Earth Sciences* and organized by young members Maddalena Napolitani and Victor Monnin during the first part of last year, provided a well-attended dynamic virtual forum for discussion and focused in particular on some significant research works recently carried out by young and early career scholars, on topics such as the History of Volcanology, Collecting Practices in Geosciences and Approaches to the History of Climatology and Glaciology.

Then, during the summer, we had a successful well attended historical-volcanological INHIGEO session, organized by Claudia Principe and Martina Kölbl-Ebert at the 28<sup>th</sup> General Assembly of IUGG, the International Union of Geodesy and Geophysics, in Berlin. It was the first time that INHIGEO organized and sponsored a scientific session at the IUGG: and it is needless to recall that this particular kind of cross-disciplinary symposium forms an important part of our outreach activities, where we interact with scientific congresses in order to raise awareness of the history of the geosciences. And of

course, one of the highlights of the year was our 48<sup>th</sup> Annual Symposium, which was wonderfully hosted in Cracow and skilfully led by our Polish members coordinated by Krystyna and Staszek Wołkiewicz, with the precious help of Piotr Krzywiec and other colleagues, also in some beautiful fieldtrips in the surrounding region of southern Poland.

It is important to emphasize that our geo-historical fieldtrips or excursions are always part of the INHIGEO annual meetings, because they are essential in complementing our scholarly programmes. These excursions allow us to see geological features in the field, or visiting historical and heritage sites, sometimes following the footsteps of geologists of the past and replicating their historical field trips. As the excursions are usually organized by INHIGEO members with the collaboration of local groups and communities, the emphasis on historical content becomes a powerful tool for communicating geological sciences within the cultural identity of local people and society. For all these reasons, to take part to the annual symposia and excursions is a truly multidisciplinary, scientific, historical, cultural, environmental, as well as social experience.

In several cases, the INHIGEO excursions may provide additional value to existing geo-heritage sites, as well as to contribute to identify new sites of geo-historical relevance: this can be very useful for our important ongoing collaboration with the IUGS International Commission on Geoheritage, within the project on IUGS Geological Heritage Sites, which has just presented at the IGC in Busan the new book of the "Second 100", where INHIGEO contributed significantly to the section of history of geoscience, with the proposals of six new geo-historical sites. Moreover, INHIGEO has now two representatives who have been nominated voting member in the Subcommission on Geological Heritage Sites (2022) and in the Subcommission of Heritage Stones (2024) of the ICG.

All our activities allowed not only to reinforce the network of studies and projects within the Commission, but also to establish interdisciplinary interactions with other scientific groups in sciences and in humanities, as well as to promote our geo-historical research to a new audience. Within this context, we have contributed to two virtual events such as the *Global History of Science and Technology Festival* organized by the Division of History of Science and Technology of the International Union of History and Philosophy of Science and Technology (DHST/IUHPST) and to the Earth Science Matters Foundation Youth Outreach Program.

The INHIGEO *Annual Record* 56, covering activities generally in 2023, has just been published and is available in our website: this impressive volume of 280 pages shows as usual the high level of individual and institutional research undertaken in different ways by INHIGEO members in several disciplinary and geographical contexts. The quality and the variety of this work is also evident in the material constantly uploaded to our website, such as the papers of the "INHIGEO Anniversaries Series", published monthly in the *IUGS E-Bulletin* or the papers included in the IUGS journal *Episodes*.

Our main task will be to continue to support projects and activities for promoting the history of geological sciences, organizing and sponsoring symposia and scientific sessions, exhibitions, publications, both at academic and popular level. We will increase the interactions with other IUGS commissions (such as geoheritage, forensic geology, education, geoethics) and IUHPST/DHST commissions (such as the collaboration with the Science and Empire commission for the 2025 ICHST).

Our membership is constantly growing, but we need to increase the number of members from non-represented countries and young scholars. In order to achieve this target, we strongly encourage the proposals of new nomination of young researchers (students, post-graduates and PhD students in particular). Our *Quarterly Circular* is now regularly including the Early Career Research Profiles, dedicated to young members of INHIGEO, to their studies and research interests.

Also, more national groups and societies of history of geosciences have the possibility to become affiliated to INHIGEO and we need to emphasize this opportunity. And we would like also to receive more inputs, ideas and proposals from our members in order to share an active involvement, more than a general interest, in the research in the field of the history of geological sciences.

For the next future we will concentrate also on some challenging tasks, such as in particular the reorganization of our archives, the planning of bibliographical tools and scientific directories, in order to make more available the results of the research and studies produced by INHIGEO's members since the establishment of our commission in 1967.

Finally, I would like to warmly thank Secretary-General Martina Kölbl-Ebert, our Editor John Diemer, outreach and publication coordinator Kathleen Histon, webmaster Johannes Mattes and all the members of the Board for their work and support during these last four years of our term at the service of INHIGEO. I hope and trust that this work will contribute to reinforce and enlarge the "INHIGEO spirit" of collaboration, curiosity and friendship.

## 6. Secretary General's report

The highlight of the year 2023 certainly was the 48th INHIGEO Annual Symposium in Cracow and organized by our Polish colleagues. Topics of talks were, history of geological mapping, history of mining and old mines as objects of geological and mining heritage and their contemporary use, history of geodiversity conservation and the formation of geoparks, origin and development of geological research, general contributions and biographies of famous geologists. It was accompanied by a pre-conference fieldtrip and a mid-conference fieldtrip dedicated mainly to the mining history in southern Poland.

At the 48<sup>th</sup> INHIGEO Symposium in Cracow, Dr Daniele Musumeci (Italy) received the INHIGEO Early Career Award for young scholars up to 35 years of age, for his presentation "*Scientific Paradigms and Complexity in Modern and Contemporary Volcanology: The Contribution of Studies on Etna and Vesuvius*".

We held our business meeting on August 4<sup>th</sup>, 2023, the minutes of which are published in the INHIGEO Quarterly Circular of September 2023.

There were also several INHIGEO sponsored session and conferences such as the 6th Argentinian Congress and 1st Latin American Congress of History of Geology, on 5–6 October 2023 in San Miguel de Tucumán, Argentina. A one-day conference hosted by the Centre for the History of the Mountains, Material Culture and Earth Sciences of the University of Insubria in Varese (Italy) on 6 June 2023 considering new interdisciplinary approaches to study the history and the images of Earth sciences and reflecting on the responsibilities that come with studying the history of Earth sciences amid a global, environmental crisis, and a session the History of Volcanology at the 28th International Union of Geodesy and Geophysics (IUGG) General Assembly, Berlin, Germany, on July 17th, 2023.

2023 and 2024 was also filled with preparations for the INHIGEO sessions here at the IGC in Busan and with the independent post-conference fieldtrip organized by our Japanese colleagues, on which we are very much looking forward to.

Since the last business meeting, INHIGEO continued to increase its visibility and public outreach. Publications and Outreach Coordinator Kathleen Histon will be giving you an outline of her activities. The Proceedings of the 47th INHIGEO Annual Symposium, held in Les Eyzies (France) in September 2022, were published in December 2023 as additional volume of the journal *Travaux du Cofrhigéo* (n. 36 bis, 2023, 280 pages).

We are currently discussing with the Geological Society of London Publishing House, Springer Nature, and the History of the Earth Sciences Society the possibilities to publish the papers of the INHIGEO Sessions in Busan.

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. The Annual Record documents and compiles all INHIGEO activities thanks to editor John Diemer and can be accessed via our homepage. It also contains the current membership directory.

We have received the sad news that five INHIGEO members have died since the last business meeting. Please remember kindly: INHIGEO Past-President Barry Cooper from Australia, Gabriel Gohau from France, Teréz Póka from Hungary, Yuri Soloviev from Russia and Jacques Touret from France.

Coming to the end of my report, I would like to wish each and everyone of you peace, safety and good health! Thank you for your lively cooperation and for being part of our international INHIGEO family!

## 7. Editor's Report

The members of INHIGEO continued to be actively engaged in the history of the geosciences during 2023. Many of those activities are documented in the INHIGEO *Annual Record Number 56* which was completed in August and posted on the society's website by the webmaster, Johannes Mattes. Most of the INHIGEO membership have elected to access the *Annual Record* in PDF format on the INHIGEO website. By receiving the PDF format, the members help reduce production and distribution costs, and the carbon footprint.

25 copies of the *Annual Record Number 56* are being printed at a cost of US\$875.00. That works out to US\$35 per copy for printing, a substantial savings from last year. Printed copies will be mailed from Charlotte in September.

As was the case in previous years, I want to thank the membership for reporting in a timely manner on activities during 2023. The practice of assembling the reports by country is very helpful and I particularly want to thank the country coordinators for undertaking that valuable task. It is a rewarding experience to read about the accomplishments and progress made by INHIGEO members in their research endeavors to better understand the history of the geosciences.

Most of all, it has been a pleasure to correspond with so many INHIGEO members during the past year. I will be stepping down as Editor of the INHIGEO *Annual Record* at the end of 2024. Kerry Magruder of the University of Oklahoma will become the new Editor. So, please keep track of your activities and publications in the history of geosciences during 2024. A call will go out in early 2025 for your reports on activities during 2024, and I hope that you will send them to Kerry in a timely manner so that the next *Annual Record, Number 57*, can appear on time.

## 8. Publication and Outreach Coordinator's Report

### Publications

Papers for IUGS journal Episodes – Papers on the history of the geological sciences now have the heading “History of Geology” when published in Episodes starting from 2022.

Five articles have been published during 2023 and one book review.

In addition, two articles (one accepted, one in revision) and two book reviews are currently being processed within the editorial system

### Cross-disciplinary Symposia Thailand Special Issue

A cross-disciplinary INHIGEO sponsored symposium was organized at the 6th International Paleontological Congress in Khon Kaen (Thailand) in November 2022. A collection of 11 papers are currently being processed by the Guest editors (K.Histon, T.Yamada and S.Turner) together with the editor John Diemer as a Special Issue of Earth Sciences History.

### Outreach

#### INHIGEO Anniversaries

Twelve Anniversaries in Geo-History were solicited and prepared in collaboration with the authors for 2023: these are posted monthly on the IUGS website and on the DHST social media, published in the monthly IUGS E Bulletin and are archived permanently on the INHIGEO website. <https://www.inhigeo.com/anniversaries.html>

#### INHIGEO Quarterly Circular

Preparation of outreach items regarding the Anniversaries, Early Career Research Profiles, new publications from Episodes, various news items.

#### INHIGEO Website

Collaboration with Web Master (J. Mattes) for details regarding recent publications of INHIGEO.

## IUGS Website

Collaboration for posting of the INHIGEO Anniversaries and INHIGEO news on the IUGS Homepage under news and for the E Bulletin.

## DHST social media

Collaboration for outreach with the Division of History of Science and Technology of the International Union of History and Philosophy of Science and Technology (IUHPST/DHST). Provision of INHIGEO news items and monthly Anniversaries for posting on their social media.

## 9. IUGS Topics

Episodes: If you have an appropriate manuscript please submit it to Episodes as amongst other things it helps raise the profile of INHIGEO. You are encouraged to contact Kathleen Histon before you do so as she might be able to help with the submitting procedure.

The latest meeting of the IUGS Executive Board took place 18 to 21 February 2024 in Nairobi. The open sessions of the meeting were attended by the Secretary-General and online by INHIGEO President Ezio Vaccari. Our report has been received favourably and resulted in the continuing financial support by the IUGS.

With the end of the IGC Congress, there will be several changes in the INHIGEO Board:

- Vice-Presidents of Asia (Toshihiro Yamada),
- of Latin-America (Maria Margaret Lopes),
- and of North America (Stephen Rowland),
- our editor (John Diemer)
- webmaster (Johannes Mattes)

are stepping down from duty: thank you very much for all you have done for INHIGEO!

Stepping in – with the IUGS’s approval – are

- Sun Chengsheng from China as vice-president for Asia
- Lucero Morelos-Rodriguez from Mexico as vice-president for Latin-America
- Ernst Hamm from Canada as vice-president for North America
- Kerry Magruder from the US as editor
- Maria Faccioli from Italy as INHIGEO webmistress

Thank you very much for agreeing to spend your precious time with this volunteer work!

The following members of the board will continue for another four years:

- Ezio Vaccari as INHIGEO President
- Sharad Master as Vice-President for Africa
- Carol Bacon as Vice-President for Australasia/Oceania
- Marianne Klemun as Vice-President for Europe
- Kathleen Histon as Publications and Outreach Coordinator
- Martina Kölbl-Ebert as Secretary General.

I’d like to thank also these, my colleagues, for their continued efforts and time.

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

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 DHST.

It supports INHIGEO with annual grants, for which we apply annually and file a report.

On 29<sup>th</sup> of September, DHST organized a 24-hours online Global History of Science and Technology Festival. INHIGEO President Ezio Vaccari participated as INHIGEO representative.

## **11. Future Meetings of the INHIGEO Commission**

In 2025 – the 50<sup>th</sup> INHIGEO Symposium will take place in Dunedin, New Zealand in association with the 27<sup>th</sup> International Congress of History of Science and Technology.

Four sessions are planned with INHIGEO involvement:

- “Science & Empires on Geological Sciences”, proposed by Silvia Figueroa and Marianne Klemun, and sponsored by INHIGEO, within a symposium proposed by the DHST/IUHPST Science & Empires Commission.
- A symposium on “Indigenous peoples’ knowledge and beliefs about the Earth: an open historiographical issue”, proposed by Ezio Vaccari and Martina Kölbl-Ebert
- A symposium on “The geological notebook: reflections in the field”, proposed by Kathleen Histon and Carol Bacon.
- There will also be a session for general topics on the history of the geosciences.

We are currently negotiating two fieldtrips: a one-day geological city-walk in Dunedin and a post-conference fieldtrip of several days’ duration on the North Island from Wellington to Auckland.

For 2026, INHIGEO will meet in Zimbabwe and have a fieldtrip from South Africa to Zimbabwe.

For 2027 we have been invited by our Austrian colleagues to Vienna.

The 2028 IGC will take place in Calgary (Canada).

The 2029 meeting will be in conjunction with the 28<sup>th</sup> International Congress of History of Science and Technology, the location of which is not yet known.

For 2030, INHIGEO has received an invitation by our Moroccan member Khallaf El Ghalbi to come to Meknes in Morocco.

## **12. Finalization of 2023 ballot**

Over the past months, the INHIGEO Board has reviewed the nominations for new INHIGEO members. The members present at the business meeting extended a warm welcome to 8 new members from 5 countries:

- One new Associate member: Ibukun Adenle ((Nigeria)
- Seven new Ordinary Members: Jana Bruthansova ((Czech Republic), Carl Drummond (USA), Joshua Hillman (United Kingdom), Gregory Todd (USA), Naomi Oreskes (USA), Takeshi Ozawa (Japan) and Tom Sharpe (United Kingdom)

As always, INHIGEO encourages proposals of new memberships, in particular from non-represented countries and from young researchers for the next ballot, which will take place in spring 2025.

As a result of this year’s ballot, INHIGEO now has 312 members from 57 countries.

## **13. Awards**

The INHIGEO Early Career Award for best presentations at the Annual INHIGEO Symposium in Busan has been awarded to Lucero Morelos-Rodriguez from Mexico.

INHIGEO’s V.V. Tikhomirov History of Geology Award for 2024 in recognition of outstanding original contributions or achievements that mark a major advance or contribution to the History of the Earth Sciences will be presented to Kenneth Taylor (USA INHIGEO member).

## **14. Vote of thanks**

INHIGEO President Ezio Vaccari expressed his thanks to the organizers of the 2024 IGC in Busan and the organisers of the INHIGEO sessions and workshop at this congress. He also expressed his thanks to all for having attended the business meeting and for their contributions to INHIGEO.

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## Conferences

### ICHST 2025 Congress in New Zealand – Hosting the 50<sup>th</sup> INHIGEO Annual Symposium

INHIGEO has submitted three proposals for symposia at this conference, which will take place in Ōtepoti Dunedin, 29 June – 5 July 2025:

- Two panels on the topic “**Science & Empires on Geological Sciences**”, proposed by Silvia Figueroa and Marianne Klemun, and sponsored by INHIGEO, within the symposium “Science and Empire Turns 30: Peoples, Places, Exchanges, and Circulation” proposed by the DHST/IUHPST Science & Empires Commission
- A symposium on the topic “**Indigenous peoples’ knowledge and beliefs about the Earth: an open historiographical issue**”, proposed by Martina Kölbl-Ebert and Ezio Vaccari:

Geological materials and geological phenomena are part of human resources and environment in all cultures and from the earliest times of human existence to the present. Use of materials, observation of landscape and encounters with various geological hazards has shaped human experience, knowledge, mythology and spirituality everywhere, before, outside and beyond a contemporary and ideally but often not truly trans-cultural scientific worldview. A compared history of the knowledge and the interpretations of natural phenomena related to the Earth's surface within cultures in different historical ages and in several parts of the world (in particular Asia, Oceania, America, Africa) is still very little developed in the historiography of sciences.

While the extent of mythological 'proto-geological' views or ideas in the Ancient and Classical world in Europe and the 'Near East' has been recently studied to some extent, as in the case of seismic and volcanic phenomena, the perception of 'geological' phenomena within indigenous communities outside this limited region is still wanting extended investigations, in order to address a long-standing desideratum within the historiography of the geological sciences. Sources include the use of archaeological tools, objects of material culture, as well as oral history.

Contributions are welcome with reference to the Earth and its phenomena (not necessarily catastrophic) and features (such as mountains, minerals, fossils, etc.) in oral traditions, poems, songs, tales, inscriptions, early art (drawings, pictures, ...), religious rituals, myths and other cultural forms, from the ancient times to the present.

- A symposium on the topic “**The geological notebook: reflections in the field**”, proposed by Kathleen Histon and Carol Bacon:

The aim of this symposium is to focus on an aspect of the history of formulation of ideas and development of theories within the geological sciences, that of looking for traces of their elaboration within the geological field observations in notebooks of naturalists/geologists. Apart from observations and sketches of features seen and places visited, such evidence may often be denoted just by a question mark next to the notes or a scribble on a sketch.

The notebook is often where the person elaborates ideas, interpretations and theories centred around what they have observed and exchanges with locals or other travellers. Sometimes notes may be flanked by reference to specific correspondents and questions to pose and circulate in future correspondence. They may refer to literature read associated to the local geology/studies and to other areas with which to compare what has been seen.



Thematic presentations ranging from the 18<sup>th</sup> to 20<sup>th</sup> century will touch upon and open discussion by the panel of the following topics:

How do the published theories/observations compare/differ from the reflections in the field?

Is there a change over time from geological notes within travel diaries and journals of naturalists to the more specific notebook reserved for geological observations during individual field surveys and institutional mapping campaigns, i. e. national geological surveys?

What role do drawings, cross-sections, sketches, etc. (drawn directly in the field or also later during the fieldtrip / travel play in the development and the definition of a visual language of geology?

Stand-alone papers on history of the geosciences will also be possible and can be submitted until 1 December 2024. We have offered to the organizing and program committees our availability, as INHIGEO, to chair and co-sponsor the possible session where submitted stand-alone papers on the history of geology will be included.

The organizers plan for a hybrid meeting. The theme of the 27th ICHST is “*Peoples, Places, Exchanges, and Circulation*”. For more detailed information, please see the conference website: <https://www.ichst2025.org/>

### Key Dates

• Call for stand-alone papers	Now open
• Registration	Now open
• Deadline for submission of abstracts	1 December 2024
• Decisions on stand-alone papers announced	31 January 2025
• Early bird registration closes	3 April 2025
• Program released online	1 May 2025
• Final date for registration	1 May 2025
• Congress opens	29 June 2025

For registration, abstract submittal and further information please visit the conference website: <https://www.ichst2025.org/>

### Fieldtrips: expression of interest – IMPORTANT!

Hamish Campbell, a retired geologist from New Zealand, will be organizing a week-long post-conference fieldtrip for INHIGEO on the North Island from Wellington via Featherston, Napier, Taupo, Rotorua, Kawhia, Tuakau to Auckland, featuring geology and volcanology, history of geology, and some Maori culture.

We need to provide him with an idea on how many participants to expect, before he can give us a reasonable estimate of the costs.

Additionally, Nick Mortimer, a geologist from Dunedin, has offered a half day urban fieldtrip (on foot, no cost) on the Geology and Building Stones of Dunedin.

Please send an e-mail to [m.koelbl@lmu.de](mailto:m.koelbl@lmu.de) no later than 1<sup>st</sup> of December indicating your interest in participating in the week-long (6 to 7 nights) post-conference fieldtrip from Wellington to Auckland in July 2025.

Please also indicate in your e-mail, whether you would like to participate in the half day urban fieldtrip in Dunedin.

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## EGU General Assembly 2025

For the EGU General Assembly 2025 in Vienna, 27 April to 2 May 2025, INHIGEO members Claudia Principe (Italy) and Piotr Krzywiec (Poland) have proposed a session ***Communication of geology-related risks through time***:

This transdisciplinary session transcends the single Earth and Space Science research disciplinary boundaries to address socially relevant problems by integrating disciplinary paradigms or conducting participatory research. External communication of geological risk is essential to pass better risk prevention policies and make any mitigation plan effective. For this reason, studying how these phenomena have been addressed in the past can help plan future resilience actions. The session deals with the communication of the different kinds of geology-related risks through time. Volcanic eruptions, earthquakes, floods, and landslides have always been part of the Earth's dynamics, but the mitigation of these types of disasters by human society has become an increasingly pressing objective with the exacerbation of climate change and the present increase in land occupation. For these reasons, stakeholders and collaborators from within and beyond the academic world are welcome to participate in the session, with contributions related to case histories on how institutions have dealt with social crises induced by one or more geological phenomena, or what have been the difficulties in communicating the various types of risk present or which have become present following a cataclysmic event, or how scientists have tried in the past to communicate a risk situation to activate the chain of civil liability for the possibility of one or more events occurring.

This session will be co-sponsored by INHIGEO.

For further information see the conference website: <https://www.egu25.eu/>

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## History of Forensic Geology

21 to 23 May 2025, the IUGS Initiative on Forensic Geology will celebrate its 15<sup>th</sup> anniversary with a conference in Rome. INHIGEO will organize a session on the history of forensic geology at this conference.

Anyone planning to present a talk at this session should send an e-mail with author name(s) and provisional title to [m.koelbl@lmu.de](mailto:m.koelbl@lmu.de) by **6 October 2024** at the latest.

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## 51<sup>st</sup> INHIGEO Annual Symposium 2026

In 2026, the 51<sup>st</sup> INHIGEO Annual Symposium will meet in Johannesburg (South Africa) and Victoria Falls (Zimbabwe). A local Organising Committee will be formed next spring and work out a program for the conference.

Prospective topics of the conference will be

- Pre- and Post-colonial History of Mining in Southern Africa
- History of Palaeoanthropology in Southern Africa
- History of Geological Exploration in Southern Africa

We will start with a pre-Conference excursion in Johannesburg (which is the international airline hub for Southern Africa, and where most delegates are expected to fly into). In Johannesburg there will be a focus on the History of Gold Mining in the Witwatersrand, with visits to preserved gold reef workings (Standard Bank Building, Johannesburg), an Underground visit to tourist gold mine at Gold Reef City, and other historic places. A second theme will be on the history of Palaeoanthropology in South Africa, with visits to the Origins Centre at the University of the Witwatersrand, and the Maropeng Museum, Sterkfontein Caves and Museum in the Cradle of Humankind World Heritage Site.

Then we will fly to Victoria Falls, Zimbabwe, where the INHIGEO Conference will be held. Delegates will be taken to see the Victoria Falls (a World Heritage site), and a sunset cruise on the Zambezi River upstream from the Falls. There will be a day trip across the border into Livingstone, Zambia, where we will visit the Livingstone Museum, to see exhibits related to David Livingstone, the Explorer and Missionary; early mining and smelting by indigenous peoples of Zambia; and the early history of Geological Exploration around Victoria Falls by Czech explorer and geologist Emil Holub. On the Zimbabwe side we may also examine pre-historic stone age archaeological sites.

The post-Conference Excursion will travel by bus from Victoria Falls to Bulawayo (the second city of Zimbabwe), where delegates will be housed at a game lodge near the Matobo National Park. Visits will be arranged to see caves, Bushman rock paintings, and the World's View site of Cecil Rhodes' grave. A visit will also be made to the National Museum of Zimbabwe in Bulawayo, with exhibits on the History, Natural History, Geology and Mining in Zimbabwe. The excursion will continue to the archaeological site of Great Zimbabwe, which flourished from the 12<sup>th</sup> to 14<sup>th</sup> Centuries CE. This was the product of an indigenous civilization that arose as a result of gold trading with Arabs based at Sofala in present-day Mozambique.

The excursion will return to Bulawayo, from where delegates may fly to Johannesburg, and back to their home countries.

Dates have yet to be finalised, but we will try to organize our INHIGEO Meeting in proximity to the 7<sup>th</sup> International Palaeontological Congress (Cape Town, 30 November to 3 December 2026), so that delegates who so wish can attend both meetings. That would schedule the INHIGEO from 4<sup>th</sup> to 11<sup>th</sup> of December 2026 plus the post-conference fieldtrip ending in Bulawayo on December 16<sup>th</sup>, from where delegates can fly on to Johannesburg or other regional destinations.

Sharad Master

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## INHIGEO Webinars

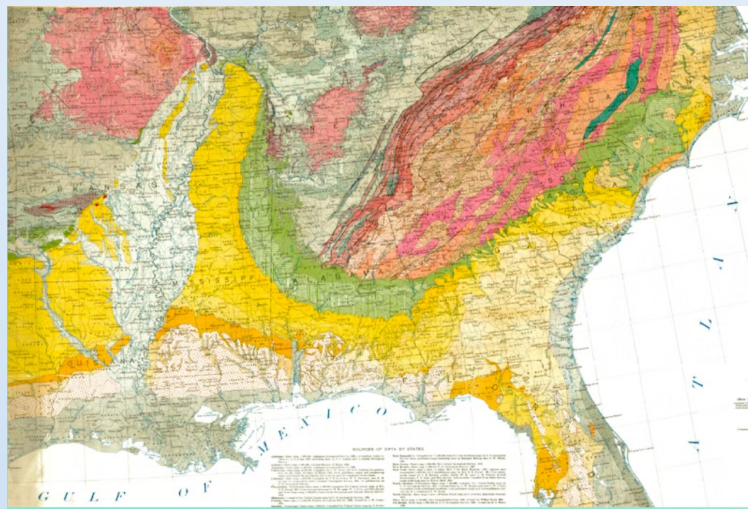
### INHIGEO WEBINARS

*New Perspectives in the History of Earth Sciences*



*Fourth meeting*

### **BRIDGING THE GULF: INTERSECTIONS OF GEOLOGY, BIOLOGY, AND ENVIRONMENTAL JUSTICE**



**September 27<sup>th</sup>, 2024 – 16:00-17:30 (CET)**

[Click here to join the meeting](#)

Guest Speaker

**Kailani Acosta, PhD** – Department of Earth and Environmental Sciences, Lamont Doherty Observatory, Columbia University

For further information, contact Victor Monnin and Maddalena Napolitani:  
[victor.monnin@gmail.com](mailto:victor.monnin@gmail.com) ; [maddalena.napolitani@gmail.com](mailto:maddalena.napolitani@gmail.com)

#### **Link to join the meeting:**

[https://teams.microsoft.com/l/meetup-join/19%3ameeting\\_OTg5ZWfhYTMtYWM5NC00MjY5LTg1YWYtZjVkOGRhMmUzMWI3%40thread.v2/0?context=%7b%22Tid%22%3a%229252ed8b-dffc-401c-86ca-6237da9991fa%22%2c%22Oid%22%3a%22d6167fa5-51f8-494c-b417-b69858ef9d9f%22%7d](https://teams.microsoft.com/l/meetup-join/19%3ameeting_OTg5ZWfhYTMtYWM5NC00MjY5LTg1YWYtZjVkOGRhMmUzMWI3%40thread.v2/0?context=%7b%22Tid%22%3a%229252ed8b-dffc-401c-86ca-6237da9991fa%22%2c%22Oid%22%3a%22d6167fa5-51f8-494c-b417-b69858ef9d9f%22%7d)

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## INHIGEO and IUGS Publications

### *Episodes*

A new article and a review of a book on the History of Geology that may be of interest to members have recently been published online in the journal *Episodes*: these may be downloaded from the link below:

The making of “Classical” Karst: Serbian geographer Jovan Cvijić, (inter)nationalism, and the emergence of karst sciences, 1870–1914

Author: Johannes Mattes

*Episodes* 2024; Published online September 15, 2024.

<https://www.episodes.org/journal/view.html?uid=2395&vmd=Full>

Book Review by Martina Kölbl-Ebert

Title: On the Edge of Eternity.

The Antiquity of the Earth in Medieval & Early Modern Europe

Author: Ivano Dal Prete

*Episodes* 2024; Published online August 15, 2024.

<https://www.episodes.org/journal/view.html?uid=2389&vmd=Full>

If you are interested in contributing a paper or book review related to the History of the Geological Sciences to IUGS journal *Episodes* please contact the INHIGEO Publications and outreach coordinator: <https://www.inhigeo.com/board.html>

### **The second 100 IUGS Geological Heritage Sites**

“*The Second 100 IUGS Geological Heritage Sites*” is the continuation of the spectacular collection of sites listed in the “*The First 100*” (2022). More than 400 experts and authors from 60 different nations participated, among them various INHIGEO members. The list of sites is as impressive as *The First 100*, includes 8 new countries and covers geological disciplines that were less represented in the first book. As in the previous book, the opening chapter is dedicated to sites relevant for the history of the geosciences, where INHIGEO contributed significantly, with the proposals of six new geo-historical sites.

Visit <https://iugs-geoheritage.org/publications/> for a free download of the book or to buy a printed copy.

On the same website, you also find “*The First 55 IUGS Heritage Stones*” compiling the work of the Heritage Stones group during the last 10 years. Many cities, iconic monuments and cultures across the world are strongly influenced by a specific stone. The first 55 IUGS Heritage Stones are here presented for the appreciation of those who take interest in the history and nature of human stone use.

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

Martina Kölbl-Ebert (Germany)

### ***Loess defined 200 years ago:***

#### ***Karl Caesar von Leonhard introduced the term “Loess”***

Two hundred years ago, in 1824, Karl Cäsar von Leonhard published the third volume of his *Charakteristik der Felsarten*, a three-volume catalogue of rock types in which he named, defined and described rocks. Volume 3 dealt with unconsolidated materials, transported sediments as well as disintegrated weathering materials. Among these sediments he described Loeß – or loess in the international spelling.

IUGS E-Bulletin 207, July 2024;

[https://www.inhigeo.com/anniversaries/Koelbl-Ebert\\_M\\_Karl\\_von\\_Leonard\\_defines\\_the\\_term\\_Loess\\_200\\_years\\_ago.pdf](https://www.inhigeo.com/anniversaries/Koelbl-Ebert_M_Karl_von_Leonard_defines_the_term_Loess_200_years_ago.pdf)

Philippe Le Vigouroux (FRANCE)

### ***Published 100 years ago:***

#### ***A European support to continental drift: Emile Argand and his "Tectonics of Asia"***

A scientific paper that had been awaited for nearly two years was finally published in late summer 1924 in the *Proceedings* of the 13th International Geological Congress held in August 1922 in Brussels (Belgium). Emile Argand had finally put the finishing touches to the text of his article: *La Tectonique de l'Asie* (*Tectonics of Asia*).

IUGS E-Bulletin 208, August 2024;

[https://www.inhigeo.com/anniversaries/Le\\_Vigouroux\\_P\\_Argand\\_and\\_Tectonics\\_of\\_Asia\\_100\\_years\\_ago.pdf](https://www.inhigeo.com/anniversaries/Le_Vigouroux_P_Argand_and_Tectonics_of_Asia_100_years_ago.pdf)

Beatriz Aguirre-Urreta (ARGENTINA)

### ***Established 150 years ago:***

#### ***National Academy of Exact, Physical and Natural Sciences of Argentina***

The National Academy of Exact, Physical, and Natural Sciences has celebrated 150 years of supporting Argentine science. From its early years, geology played an active role in its leadership. In 1874 Juan María Gutiérrez (1809–1878), the rector of the University of Buenos Aires, obtained funding for its establishment. Although he was not a trained geologist, Gutiérrez had done some research and published several articles in palaeontology.

IUGS E-Bulletin 209, September 2024;

[https://www.inhigeo.com/anniversaries/Aguirre\\_Urreta\\_B\\_Argentine\\_Academy\\_established\\_150\\_years\\_ago.pdf](https://www.inhigeo.com/anniversaries/Aguirre_Urreta_B_Argentine_Academy_established_150_years_ago.pdf)

If you are interested in submitting contributions for this series, please contact the [INHIGEO Publications and Outreach Coordinator](#).

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## Early Career Research Profiles

This profile series on young members of INHIGEO is to create a space where early career scholars can present their studies and research interests within the history of the geological sciences to the whole membership and anyone who receives the newsletter, in order to highlight their field of expertise. It is hoped this will lead to contacts and collaborations for the future through our extensive network. Our profile this month is on an early career researcher from Italy.

Name: **Maria Faccioli**

### Studies:

2019: Ph.D. in Law and Human Sciences, Department of Law, Economics and Cultures, University of Insubria, Varese-Como, Italy.

2008: Master's Degree in Communication Sciences and Techniques, University of Insubria, Varese-Como, Italy.

2005: Bachelor degree in Communication Sciences, University of Insubria, Varese-Como, Italy.



### Prizes:

2019 Award for Best Poster – “young scholar” section on the occasion of the 44th INHIGEO Symposium, Varese – Como, Italy

**Title of PhD:** The historiographic problem of management of extraction activities in the Veneto Region during the 18th century. The mineralogical travel and mining project of Marco Carburì (*La gestione dell'attività estrattiva nel Veneto del Settecento come problema storiografico. Il viaggio mineralogico e il progetto minerario di Marco Carburì*).

**Abstract:** Marco Carburì was a chemist, holder of the first Italian professorship of Chemistry at Padua University. He lived in the mid-18th century in the Republic of Venice, and, given the skills recognized in him, he was sent by the “Magistrato sopra le miniere”, the competent body in mining matters, to carry out between 1760/64, a so-called “mineralogical journey”, a rather common practice in eighteenth-century Europe, which took many Earth Science experts to visit the most cutting-edge mineral and stone extraction sites of the times. These types of travels had the aim of observing and acquiring the most innovative mineral processing techniques, especially those relating to noble metals.

My doctoral research, reconstructed through unpublished sources, mainly a voluminous correspondence between Carburì himself and the Venetian government - preserved in the library of the Correr Museum in Venice and never transcribed before - allowed to retrace the places visited, the personalities with whom Carburì came into contact and the technical knowledge that he was able to record and report to the government that had financed his trip.

### Research interests:

After my master's degree, my first interests were linked to the **history of material culture** understood as a reconstruction of the techniques linked to daily life and production processes in the pre-industrial era (18th and 19th centuries).

During my Ph.D. I developed a particular interest in workplaces such as quarries and mines, sites where it was also possible to deduce particular aspects of the history of the earth, its **geology, stratigraphy and petrography**.

My interest is to demonstrate how particular workplaces contribute to the development of the earth sciences: history of quarry and mining techniques has indeed provided significant contributions to the development of **Earth Sciences** through observations that were transformed into visual materials such as sketches, diagrams, images of the stratigraphy that emerged during the excavation works. The material culture in quarries and mines, the tools and techniques connected to it, has therefore proceeded hand in hand with an increasingly deeper understanding of the Earth and vice versa.

Image from: Balthasar Rösler, *Speculum metallurgiae politissimum, oder: Hellpolierter Berg-Bau-Spiegel*, Winckler, Dresda, 1700, p. 76



#### **Publications:**

Faccioli M., Mineralogical travels and mining knowledge in the XVIII century: preliminary considerations on the case of Marco Carburi in *Physis*, Vol LVI (2021), nuova serie, fasc. 1-2, pp. 319 - 331

Faccioli M., “The underground ornamental stone quarries of Valceresio (province of Varese)” in *Memorie Descrittive della Carta Geologica d’ Italia*, 3a Giornata di geologia e storia: cavità sotterranee nascoste o scomparse sotto il tessuto urbano, 2020, pp. 317 – 324.

Faccioli M., Le cave di pietra ornamentale nel Veneto: alcune riflessioni sulla normativa e sulle sue applicazioni nella Repubblica Serenissima. In Bottino G., Cafagno M., Minazzi F. (Eds), *Sui beni comuni: contributi e riflessioni*, Mimesis, Milano 2016, pp. 225 - 247

**Contact:** currently Research contract, Department of theoretical and Applied Sciences (DiSTA) / Center for the History of the Mountains, Material Culture and Earth Sciences, University of Insubria, Varese, Italy. Email: [m.faccioli@uninsubria.it](mailto:m.faccioli@uninsubria.it)



## Awards

During the 49<sup>th</sup> INHIGEO Annual Symposium 2024, held together with the 37<sup>th</sup> IGC in Busan (South Korea), two awards were conferred at the INHIGEO Business Meeting on 28<sup>th</sup> August 2024.

### INHIGEO Early Career Award

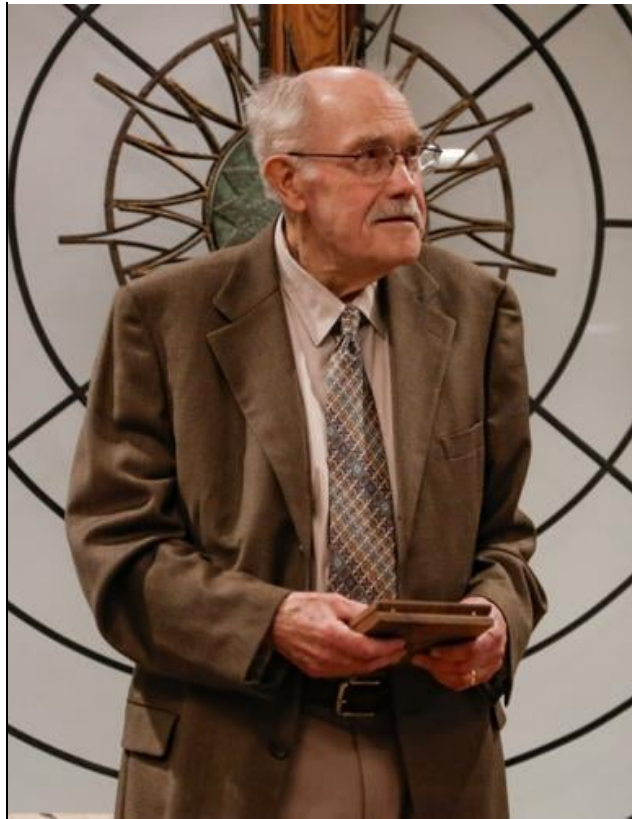


The INHIGEO Early Career Award, for the best presentation at the annual symposium by a young scholar, was presented during the INHIGEO Business Meeting on 28<sup>th</sup> August 2024 by Ezio Vaccari and Martina Kölbl-Ebert (INHIGEO President and Secretary-General) to **Lucero Morelos-Rodriguez** (INHIGEO member for Mexico) for her presentation *Mexican Women in Paleontology and the Oil Industries* at the 49<sup>th</sup> INHIGEO Symposium held together with the 37<sup>th</sup> IGC in Busan (South Korea), August 25–31, 2024.

### INHIGEO Vladimir V. Tikhomirov History of Geology Award 2024

**Kenneth L. Taylor** (INHIGEO honorary member for the USA) was announced at the INHIGEO business in Busan as the recipient of the INHIGEO Vladimir V. Tikhomirov History of Geology Award for 2024 in recognition of his outstanding original contributions and achievements that mark a major advance and contribution to the History of the Earth Sciences. The award was presented by Ezio Vaccari (INHIGEO President) to Ken at an event hosted by his university to celebrate his achievement on 18<sup>th</sup> September 2024 at the History of Science Collections and Department of the History of Science, Technology, and Medicine (University of Oklahoma, Norman, USA). As part of the event Kerry Magruder (INHIGEO Editor and Curator of the History of Science Collections at the University of Oklahoma) moderated the "*Tikhomirov Award Roundtable: A Fascination for Geology's Past— Three Historians Reflect on their Work*" between awardee Ken Taylor (INHIGEO President 2012-2016), Silvia Figueirôa (INHIGEO President 2008-2012: Unicamp University, São Paulo, Brazil) and current president Ezio Vaccari (INHIGEO President 2020-2024, University of Insubria, Varese, Italy). A selection of rare books and maps from the collections related to Ken Taylor's scholarship in the history of geology were on display during the reception held in his honour on the occasion of the award presentation.

*Photos from the event hosted by the University of Oklahoma History of Science Collections for the presentation to Ken Taylor of the Tikhomirov Award on September 18<sup>th</sup>, 2024*



Ken Taylor receiving the award from Ezio Vaccari

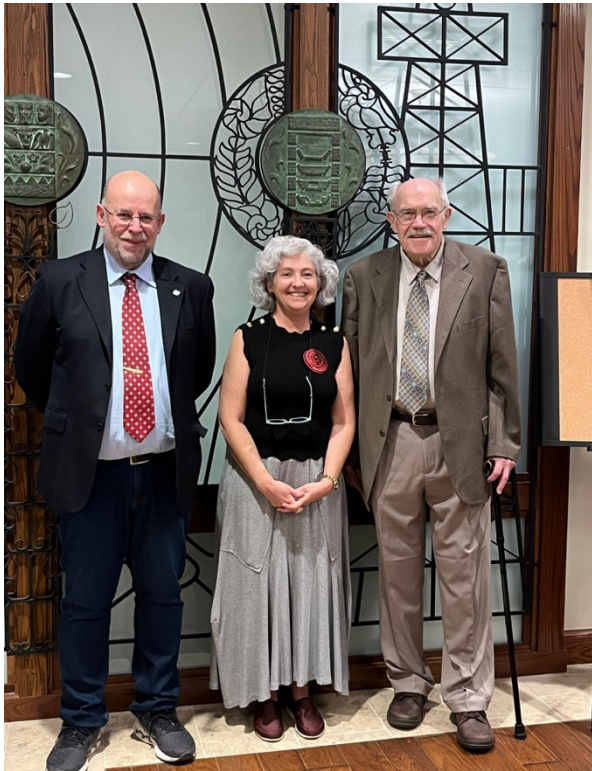




The medal of the Vladimir V. Tikhomirov History of Geology Award 2024



Kerry Magruder moderating the Tikhomirov Award Roundtable.



Presidents of INHIGEO Ezio, Silvia and Ken standing under a plaque depicting a detail of 1669 Steno's diagram of strata, in the hall of History of Science Collections.



Kerry Magruder, Ken Taylor and Marilyn Ogilvie (former curator of the History of Science Collections) admiring the display of books and maps related to Ken's scholarship on the history of the geological sciences.

## Obituary



INHIGEO member Davis Alan Young, age 83, of Grand Rapids (USA), died on Tuesday, August 20, 2024 of Covid.

Dave had a distinguished academic and professional journey. With an impressive educational background that includes an undergraduate degree from Princeton, a Master's from Penn State, and a Ph.D. in Geology from Brown University, he laid a solid foundation for a career in academia. His teaching tenure spans across notable institutions such as NYU, UNC-Wilmington, and Calvin College, accumulating to a significant 36 years of shaping minds before retiring in 2004. His contributions to the field extend beyond teaching, with several publications exploring the history of geology and its intersection with Christianity, reflecting a deep engagement with both his discipline and personal faith. Outside

of his professional life, he loved classical music. He also pursued birding, a hobby that demonstrates his appreciation for the natural world, complementing his geological expertise with a passion for the diversity of life. His legacy will be found in the quiet kindness, love and generosity of spirit he modelled to his family and friends, his academic contributions, and in the students, he has inspired throughout his career.

(Source: <https://www.zaagman.com/obituaries/Davis-Alan-Young?obId=32842898>)

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### Change in Contact Details?

INHIGEO is a significant network which works efficiently only if the administration has your current contact details. If you change your email address, postal address or any other contact information please advise the INHIGEO Secretary-General as soon as possible.

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### **Next Circular**

Dear INHIGEO members, you will receive the next circular with information updates around December 20<sup>th</sup>. Until then: Take care and stay healthy!

Kind regards  
Martina Kölbl-Ebert