

International Commission on the History of Geological Sciences

INHIGEO

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and Technology, Division for the History of Sciences and Technology*

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Mission:

The primary objective of INHIGEO involves promoting studies in the history of geological disciplines. In so doing, the Commission endeavours to stimulate and coordinate the activities of regional, national, and international organizations having shared purposes. The Commission also works to foster the publication of individual and collective works that illuminate the history of the geological sciences. INHIGEO is an ongoing Commission, which acts within an international context and with an interdisciplinary approach, addressing the varied topics of history of Earth sciences within congresses, symposia, articles, books, collections of documents and digitalisation projects.

INHIGEO is one of nine Commissions of the International Union of Geological Sciences (IUGS). INHIGEO is an Inter-Union Commission, also affiliated with the International Union of History and Philosophy of Science and Technology (IUHPST). IUHPST has two divisions, the Division of History of Science and Technology (DHST) and the Division of Philosophy of Science (DPS). Both the IUGS and IUHPST are members of the International Science Council (ISC).



dhstweb.org/

1. BOARD MEMBERS & OFFICER REPORTS

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PRESIDENT'S MESSAGE



Dear INHIGEO Members,

I am delighted to present to you the INHIGEO Annual Record 57, which covers the activities of our Commission during 2024.

This impressive scholarly and informative work clearly shows that we are an active and growing community of individuals and institutions around the world, with an interdisciplinary approach as our main strength, reinforced by an attitude of collaboration, scientific curiosity and friendship, which has developed particularly within the INHIGEO annual meetings and fieldtrips.

The Annual Record (previously Newsletter) has regularly collected through the years the detailed

country reports, including references to INHIGEO members' research works, projects and publications, as well as to various outreach activities. Now, also the new INHIGEO website (<https://www.inhigeo.org>), graphically redesigned by our webmistress Maria Faccioli, widely enriched with new contents and launched online on December 2024, as one of the major achievements of this year, will contribute to keep informed and updated the INHIGEO members and guest visitors on our past, present and future activities: these include symposia, webinars, the monthly "Anniversaries Series" of geo-historical papers for the IUGS E-Bulletin, and the Quarterly Circular.

The highlights of 2024 included the 49th INHIGEO Annual Symposium (with five scientific sessions and one workshop) held within the 37th International Geological Congress (IGC) in Busan (South Korea) and followed by a wonderful geo-historical fieldtrip in southern Japan organized by our Japanese colleagues, the collaboration for the *Second 100 IUGS Geological Heritage Sites* project, the scientific awards received by some of our young and senior members, as well as a new series of webinars focused in particular on some remarkable research works recently carried out by young and early career scholars.

The fruitful collaboration, established since 2022, between INHIGEO and ICG (the IUGS International Commission on Geoheritage), has produced more significant results, such as our presentation of six new sites, valuable for their iconic importance in the history and the development of the geological sciences. These geo-historical sites were then selected and included in the book *The Second 100 IUGS Geological Heritage Sites* and in the program of the special event held at the ICG in Busan.

During 2024, we have also reinforced our interaction with the Division of History of Science and Technology of the International Union of History and Philosophy of Science and Technology (DHST/IUHPST), in particular through the organization of an INHIGEO symposium in cooperation with DHST's Science and Empire Commission, for the 25th International Congress of History, Science & Technology scheduled in 2025 in Dunedin (New Zealand).

Moreover, our valuable partnership with the History of Earth Sciences Society (HESS) has been significantly strengthened with the publication in the journal "Earth Sciences History (vol. 43, n. 1-2, 2024) of two special issues containing the proceedings of the INHIGEO sponsored sessions "History of stratigraphy in Italian environments" at the 3rd International Congress of Stratigraphy, and "Hidden histories revealed in scientific revisions of paleontological collections" at the 6th International Paleontological Congress.

As every four years since 2012, at the International Geological Congress in Busan we have presented the "INHIGEO Vladimir V. Tikhomirov History of Geology Award": our honorary senior member Kenneth L. Taylor (USA) was announced as the recipient of the award in recognition of his outstanding original contributions and achievements that mark a major advance and contribution to the history of the Earth Sciences.

The country reports included in this *Annual Record* confirm the high quality of the research carried out by INHIGEO members in several different disciplinary and geographical contexts. The extent of the activities carried out during 2024 shows that interdisciplinary dialogue and interactions with other groups and communities within the sciences and humanities are always very important aspects of the research work and the outreach commitment of INHIGEO. We will continue to support projects and activities for promoting the history of geological sciences, as well as to increase the important interaction with other IUGS and IUHPST/DHST commissions and affiliated associations. Our membership is growing, but we need more members from non-represented countries and young scholars.

Finally, I would like to warmly thank the contributors to the Annual Record and above all our Editor Kerry Magruder, who worked at this issue with great passion, expertise and accuracy.

I hope that this message will find you all in a very good health and excellent spirits.

Enjoy reading the Annual Record !

Ezio Vaccari
INHIGEO President (2020–2024, 2024-2028)

SECRETARY GENERAL'S REPORT



Dear INHIGEO Members,

The 49th INHIGEO Annual Symposium took place in conjunction with the 37th International Geological Congress (IGC) in Busan (South Korea) from 25–30 August 2024. It included a three-day post-conference fieldtrip to historical and geological sites in the vicinity of Mount Unzen and Nagasaki (Japan). INHIGEO members organized four sessions at the IGC on the following topics: Geosites and Georoutes in the History of Geological Sciences; Anthropocene, History and the Geosciences – Contributions to Contemporary Debates; History of Women in the Geological Sciences – Trailblazers, Leaders and those in the Shadows; History of Geoscientific

Travels in Asia and Beyond; General Contributions to the History of geological Sciences. The INHIGEO business meeting took place on 28 August 2024.

2024 was also filled with starting preparations for the INHIGEO sessions at the ICHST in Dunedin, including finding someone, who would organize fieldtrips for the onsite participants. We have also prepared the slate for the new INHIGEO Board to be approved by the IUGS Executive Committee at the IGC in Busan.

INHIGEO has issued travel grants to keynote speakers in Busan as well as to couple of INHIGEO members without funding to attend the IGC in Busan. Such money is provided both by the IUGS and the IUHPST's Division of History of Science and Technology. For this the INHIGEO Secretary general and the INHIGEO president provide annual reports and requests for financial support to both bodies, and we attend the annual open IUGS Executive Board meeting to present our report in person and to justify the expenses.

The quarterly “INHIGEO Circular” continues with issues in late March, June, September and December of each year, prepared mostly by the Secretary-General and the Publications and Outreach Coordinator and sent out by e-mail. You are welcome to send in news items to be shared with the general INHIGEO membership.

Recent Quarterly Circulars have featured a series of 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.

Two early-career INHIGEO members, Victor Monnin (France) and Maddalena Napolitani (Italy), organize the INHIGEO Webinar Series entitled *New Perspectives in the History of Earth Sciences*. It provides a virtual forum for discussion of a wide range of topics on the History of the Geological Sciences. The webinars focus in particular on the research recently carried out by young INHIGEO members / early career scholars.

On 27 September 2024, the 4th INHIGEO Webinar on *Bridging the Gulf: Intersections of Geology, Biology, and Environmental Justice* featured a talk by Kailani Acosta (USA).

On 22 November 2024, the 5th INHIGEO Webinar on *The Art of the Carboniferous Period in the Times of Decarbonization: A Short Introduction* featured talks by Marta and Pawel Tomczok (Poland).

In collaboration with the IUGS – International Commission on Geoh Heritage, INHIGEO has published six historical geosites in *The Second 100 IUGS Geological Heritage Sites*, an on-going IUGS program to give recognition to sites with exceptional geological features that are global references for the geosciences or have made an important contribution to the development of geology through history.

The INHIGEO Publications and Outreach Coordinator, Kathleen Histon, organizes and edits the monthly INHIGEO Anniversaries for IUGS E-Bulletin. She also regularly sends to DHST President and General-Secretary updates about INHIGEO recent activities and publications, in order to be posted on the DHST social media.

At the 49th INHIGEO Symposium in Busan, Dr Lucero Morelos-Rodriguez (Mexico) received the INHIGEO Early Career Award for young scholars up to 35 years of age, for her presentation “Mexican Women in Paleontology and the Oil Industries”.

Kenneth L. Taylor (INHIGEO honorary senior member for the USA) received 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 is presented every four years.

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

Martina Kölbl-Ebert

INHIGEO Secretary General (2020–2024, 2024-2028)

EDITOR'S MESSAGE



This INHIGEO Annual Record documents a remarkable level of constructive activity in the history of the geosciences in 2024, despite the magnitude of challenges which members have engaged with persistence and resilience. Respondents from 30 countries contributed accounts involving more than 150 individuals of research projects, publications, meeting presentations, field-based studies, and public events that took place during 2024.

While reading the Country Reports, I invite us all to pay particular attention to what colleagues are doing in countries that are perhaps less familiar to us. The vista unveiled by INHIGEO membership is a significant global community, geographically dispersed, working toward common goals in the history of the geosciences. It is rewarding to read about the remarkable activities of members whose paths might not cross were it not for INHIGEO and its unique mission.

I want to thank everyone who reported their activities whether directly to me or indirectly through their representatives. Thanks also to the national and regional representatives who prepared the collected accounts of many members. I also thank the previous editor, John Diemer, and members of the INHIGEO Board, who have each welcomed me and supported the effort of producing the Annual Record. It is a collaborative venture that depends crucially upon the good will and mutual assistance which have long characterized INHIGEO. Together we will work over the coming year to improve the process for future editions and to better coordinate and integrate scholarly communication across our various media and channels. Suggestions, critiques, and input are most welcome; please send your thoughts to the Board and to me at kvmagruder@gmail.com.

Kerry Magruder

Editor, *Annual Record* (2024-2028)

2. CONFERENCE REPORTS (2024)

Conferences described in this section:

49th INHIGEO Annual Symposium, Busan (South Korea), August 25-31, 2024

INHIGEO Field Excursion, Southern Japan. September 1-4 2024

- 49th INHIGEO Annual Symposium, Busan (South Korea), August 25-31, 2024

The Busan conference report is submitted by Toshihiro Yamada. The 49th INHIGEO Annual Symposium, Busan (Korea), 25 – 31 August 2024. This Symposium was held in association with the 37th International Geological Congress (IGC 2024). It took place at BEXCO, Busan, Republic of Korea. The congress website is www.igc2024korea.org.

- INHIGEO Field Excursion, Southern Japan. September 1-4 2024

The INHIGEO Field Excursion report is submitted by John Diemer.

49th INHIGEO Annual Symposium, Busan (South Korea), August 25-31, 2024

Busan conference report submitted by Toshihiro Yamada.

万国地質学会議（37IGC）における地学史セッション —— INHIGEO 活動報告 ——

山田 俊弘

釜山への道

2024年8月25日から30日にかけて、第37回万国地質学会議（37IGC、37th International Geology Congress）が、韓国の釜山で開催された。ボードメンバーとして国際地質科学史委員会（INHIGEO）の関係セッションのコンビーナを務めたので参加報告を行っておきたい。

万国地質学会議は19世紀より続くこの分野の伝統ある大きな会議だが、前回2020年のニューデリー会議はコロナ禍のため延期のうえ中止となったので久しぶりの対面開催となった（その前は2016年のケープタウン開催）。私自身は2012年のブリスベン会議に参加して以来12年ぶりだったが、当時の BRICS をはじめグローバルサウス新興資源国による熱気は、パンデミックとロシアによるウクライナ侵攻を経て冷めたような印象だった。隣国での開催でもあり韓国の研究者との交流が期待されたが、こちらは地理問題がらみの日韓関係の冷え込みが回復しきらず、日本からのプレゼンスは低調に見えた。

このような事情で、正直のところ積極的に関わってよいものか当初は躊躇したが、ヨーロッパのメンバーを中心に議論はつねに前向きで、結局ワークショップを含めて6つものセッションを提案、運営することになった。1つのセッションが他と統合されたほかは、それぞれ興味深いテーマのもと中身の濃い発表と議論が組織された。全体として優れたパーフォー

History of Geology Session at the 37th International Geology Congress (37IGC)

— INHIGEO Activity Report —

The Road to Busan

The 37th International Geology Congress (37IGC) was held in Busan, South Korea from August 25 to 31, 2024. As a board member, I served as the convener of the session related to the International Committee on the History of Geological Sciences (INHIGEO), so I would like to report on my participation.

The International Geology Congress (IGC) is a large, traditional conference in this field that has been held since the 19th century. The last one scheduled for New Delhi in 2020 was canceled due to the COVID-19 pandemic, so this was the first in-person conference in a long time. The previous one was held in Cape Town in 2016. It had been 12 years since I attended the Brisbane Conference in 2012. The enthusiasm from the BRICS and other emerging resource-rich countries of the Global South seemed to have cooled down after the pandemic and Russia's invasion of Ukraine. As the event was held in a neighboring country, we had hoped for exchanges with Korean researchers, but the relationship between Japan and Korea has not yet fully recovered from the chill caused by geographical issues, and Japan's presence seemed low.

For these reasons, to be honest, I was initially hesitant about whether to actively participate, but the discussions were always positive, mainly among European members, and we ended up proposing and running six sessions, including a workshop. Except for one session that was

マンスだったといえよう。日本のメンバーが関わったものを中心に振り返っておく。

地学史セッションの展開

INHIGEOがスポンサーとなった科学史関係のセッションは開催順に並べると以下の通りである（セッション番号と開催日、開催会場を付す）。この順に概略を述べてみたい。なお会場は8月28日夜のビジネスミーティングを除いてすべてコンベンションセンターであるBEXCOで準備された。

- 1) 女性史 T40-S1、8/26（月）
16:00～18:00、M314
- 2) 一般史 T40-S3+S4、8/27（火）
08:00～11:00、M314
- 3) 旅行史 T40-S2、8/27（火）
14:30～18:00、M314
- 4) 人新世 T38-S1、8/29（木）
08:00～11:00、M314
- 5) ジオサイト T27-S3、8/30（金）
08:00～09:45、M211
- 6) ワークショップ「隠れた歴史」
Workshop 22、8/30（金）13:50-15:50、
M312

1) 女性史

女性史セッションは8月26日（月）の開会式の後、16:00～18:00に展示ホールM314にて「地質科学における女性の歴史：開拓者、リーダー、影に隠れた人々」と題して開催された。コンピーナはキャサリン・ヒストンとマルチナ・ケルブル＝エバート、発表件数は8件である¹。

基調講演としてメキシコのモレロス＝ロドリゲスより「古生物学および石油産業におけるメキシコの女性」が発表された。以下、「エセルドレット・ベネット

merged with another, each session was organized with interesting themes and substantial presentations and discussions. Overall, it was an excellent performance. I will look back on the sessions in which Japanese members were involved.

Development of the Geological History Session

The sessions related to the history of science sponsored by INHIGEO are listed below in the order in which they occurred (with session number, date, and venue). I would like to give an overview in this order. All sessions were held at the convention center BEXCO, except for the business meeting on the evening of August 28th.

- 1) Women's History T40-S1, 8/26 (Mon) 16:00 ~ 18:00, M314
- 2) General History T40-S3+S4, 8/27 (Tue) 08:00 ~ 11:00, M314
- 3) Travel History T40-S2, 8/27 (Tue) 14:30 ~ 18:00, M314
- 4) Anthropocene T38-S1, 8/29 (Thu) 08:00 ~ 11:00, M314
- 5) Geosite T27-S3, 8/30 (Fri) 08:00 ~ 09:45, M211
- 6) Workshop “Hidden History” Workshop 22, 8/30 (Fri) 13:50-15:50, M312

1) Women's History

The women's history session was held Monday, August 26, after the opening ceremony, from 16:00 to 18:00 in Exhibit Hall M314, entitled “A History of Women in Geological Sciences: Trailblazers, Leaders, and Those in the Shadows.” The conveners were Kathleen Histon and Martina Kölbl-Ebert, and there were eight presentations.

The keynote speech was “Mexican Women in Paleontology and the Petroleum Industry” by Lucero Morelos-Rodríguez of Mexico. Several case studies were presented. Three British examples: “Etheldred Bennett (1776–1845) and the

¹ Session T40-S1, History of women in the Geological Sciences: trailblazers, leaders and those in the shadows (<https://www.igc2024korea.org/calenders/16/programs/50>).

(1776–1845) と初期の英国女性地質学者の知られざる貢献」 「2つの結婚からの地質学的シーン: メアリー・エリザベス・ライエルとエマ・ダーウインの比較」 「A・H・フォード夫人とG・M・ウッドワード: 19世紀の頭足類学の翻訳者・イラストレーター」という3つのイギリスの例、「アンナ・ヒエタネン (1909–1994): フィンランドから世界へ」 (フィンランド)、「マルタ・コルネリウス・フルラーニ (1886–1974) とアーデルハイト・コフラー (1889–1985): ウィーン大学初の女性地球科学者」 (オーストリア)、「女性とダイヤモンド」 (ロシア) と事例研究の紹介があった。日本からは矢島道子による「マリー・ストープス (1880-1958) と安井コノ (1880-1971): 日本における古植物学の始まり」があった²。基本的に初期の女性研究者という設定が一般的だが、イラストレーターに着目したヒストンや、ウラル山脈におけるダイヤモンド研究に従事した女性地質学者群像を描いたコルバンツェフの発表が興味を引いた。

2) 一般史

翌8月27日 (火) の午前中08:00~11:00には、同じ会場で「地質科学の歴史への一般的な貢献」のセッションが、マルチナ・ケルブル＝エバートとエツイオ・ヴァツカーリのコンビナーのもと開催され

Unknown Contributions of Early British Women Geologists,” “Geological Scenes from Two Marriages: A Comparison of Mary Elizabeth Lyell and Emma Darwin,” and “Mrs. A. H. Foord and G. M. Woodward: Translators and Illustrators of Cephalopod studies in the 19th Century.”; “Anna Hietanen (1909–1994): From Finland to the World” (Finland); “Marta Cornelius Furlani (1886–1974) and Adelheid Kofler (1889–1985): The First Women Geoscientists at the University of Vienna” (Austria); and “Women and Diamonds” (Russia). From Japan, Yajima Michiko presented “Marie Stopes (1880-1958) and Yasui Kono (1880-1971): The Beginnings of Paleobotany in Japan.” While the focus of the sessions was generally on early female researchers, I was interested in Histon's focus on illustrators, and Kolbantsev's portrayal of a group of female geologists engaged in diamond research in the Ural Mountains.

2) General History

The following morning, on August 27th (Tuesday), from 8:00 to 11:00, a session on “General Contributions to the History of Geological Sciences” was held at the same venue, convened by Martina Kölbl-Ebert and Ezio Vaccari. The keynote speech was given by Maddalena Napolitani from Italy, who presented issues centered on the nature of

² 1) 発表者と題目は以下の通り。

[Keynote] Lucero Morelos-Rodríguez, Mexican Women in the Paleontology and Oil Industries.

2) R. M. Clary, Etheldred Benett (1776–1845) and the Unacknowledged Contributions of an Early English Woman Geologist.

3) E. Lehtonen, Anna Hietanen (1909–1994): from Finland to the world.

4) M. Koelbl-Ebert, Geological Scenes from Two Marriages: Mary Elizabeth Lyell and Emma Darwin Compared.

5) M. Yajima, Marie Stopes (1880–1958) and Kono Yasui (1880–1971): the beginning of paleobotany in Japan.

6) M. Hamilton, Martha Cornelius-Furlani (1886–1974) and Adelheid Kofler (1889–1985): the First Female Geoscientists at the University of Vienna.

7) L. R. Kolbantsev, Women and diamonds.

8) K. Histon, Mrs A. H. Foord and G. M. Woodward: 19th century translators and illustrators of cephalopod studies.

た³。基調講演は、イタリアのナポリターニが「地球科学の歴史を開いてみせる：挑戦と展望」というテーマで、図像表現のあり方を中心に課題を提示した。

この種のセッションはとかく寄せ集めとなりがちなのだが、非西欧の歴史と課題設定が魅力となる発表があつて目が離せなかつた⁴。たとえば「アステカの地質学のおよび水文学的知識」や「アル・ビールニ（11世紀）の「宝石の見分け方に関する論文」とイスラム世界における鉱物学の発展」は、通常なかなか聞けない内容であり、「ジェームズ・ドワイト・デйнаとニューサウスウェールズ州での地質学巡検、1839-40年」はアメリカとオーストラリアの関係に焦点を当てた。欧州縁辺からは「フィンランドの地質学研究の全盛期：博物館のコレクションから見る流れ」とウクライナの「シェフチェンコ科学協会の地質委員会：機関、人物、出版物」、中国から「ソビエト連邦からの学びと中国地学：1950年代の北京大学における地理学の専門化を中心とした研究」の報告があつた。これらに対し、オーストリアのクレムン「18世紀の鉱物学的知識、所有、知覚の間のイメージビルダー：カタログ、コレクション、信頼性」は、一部基調提案を受ける形で、科学知識の流通におけるイメージ形成や信頼性の浸透の問題を扱い議論の奥行きを示していた。

iconography, on the theme of “Opening the History of Earth Sciences: Challenges and Prospects.”

This type of session tends to be a hodgepodge, but there was one presentation that was fascinating in its non-Western history and topic setting, and I couldn't take my eyes off it. For example, “Aztec Geological and Hydrological Knowledge” and “Al-Biruni's Treatise on Identifying Precious Stones (11th century) and the Development of Mineralogy in the Islamic World” were topics that are rarely heard in normal situations, and “James Dwight Dana and the Geological Expedition in New South Wales, 1839-40” focused on the relationship between the United States and Australia. From the European periphery, there were reports on “The heyday of geological research in Finland: Trends seen from museum collections” and “The Geological Committee of the Shevchenko Scientific Society: Institutions, People, and Publications” from Ukraine, and “Learning from the Soviet Union and Chinese Geology: A Study Focusing on the Specialization of Geography at Peking University in the 1950s” from China. In response to these, Marianne Klemun from Austria reported on “Image Builders between Mineralogy, Ownership, and Perception in the

³ Session T40-S3+S4, General Contributions to the History of Geological Sciences (<https://www.igc2024korea.org/calenders/16/programs/223>).

⁴ 発表リストは次の通り。

- 1) [Keynote] M. Napolitani, Exposing Earth Sciences History: challenges and perspectives.
- 2) S. Locke et al., Geological and Hydrological Knowledge of the Aztecs.
- 3) K. El Ghalbi, The “Treatises on How to Recognise Gems” of Al-Biruni (11th century) and the development of mineralogy in The Muslim world.
- 4) M. Klemun, Image Builders between Mineralogical Knowledge, Possession and Perception in the 18th Century: Catalogues, Collections and Credibility.
- 5) W. Mayer, James Dwight Dana and his geological excursions in New South Wales, 1839-40.
- 6) J. Halla, The heydays of geological research in Finland: Storylines from the museum collections.
- 7) I. Bubniak, The Geological Commission of the Shevchenko Scientific Society: Institutions, Personalities, Publications.
- 8) C. Liu, Learning the Soviet Union and Earth Sciences of China: An investigation centered on Specialty Settings of Geography in Peking University In the 1950s.

3) 旅行史

この日27日は地学史日和で、午後には同じ会場M314で「地学的旅行の歴史：アジアとその先へ」のセッションが開催された⁵。発表数は13（うち1つはキャンセル）、14:30～18:00と長丁場になった。コンピーナは、エツイオ・ヴァツカーリ、オーストラリアのキャロル・ベーコンと山田俊弘の3人で、ヴァツカーリ氏が他のセッションの都合で遅れたため、キャロルと私が司会を担当した。なお、このセッションは大会スローガンが「偉大なる旅行家たち：統一する地球への航海 The Great Travelers: Voyages to the Unifying Earth」であることに対応して設けられた経緯がある⁶。

18th Century: Catalogues, Collections, and Reliability,” which, in part based on a keynote proposal, dealt with the issues of image formation and the penetration of reliability in the circulation of scientific knowledge, demonstrating the depth of the discussion.

3) Travel History

The 27th was a good day for geological history, and in the afternoon, a session called “History of Geological Travel: Asia and Beyond” was held in the same venue, M314. There were 13 presentations (one of which was canceled), and it was a long session from 14:30 to 18:00. The conveners were Ezio Vaccari, Carol Bacon from Australia, and Toshihiro Yamada. As Prof. Vaccari was late due to another session, Carol and I acted as moderators. This session was created in response to the conference slogan, “The Great Travelers: Voyages to the Unifying Earth.”

⁵ Session T40-S2, History of Geoscientific Travels in Asia and Beyond (<https://www.igc2024korea.org/calenders/16/programs/199>).

⁶ 以下の発表が行われた。

- 1) [Keynote] S. Master, Takla Makan, Pamirs, Karakoram, Indogangetic Plain, Singhala and Java: The Buddhist topography of Faxian (Fa-Hien), at the beginning of the 5th Century CE.
- 2) T. Yamada, Ennin’s Pilgrimage Travel in China: Japanese Buddhist Geo-consciousness in the Ninth Century.
- 3) T. Ozawa, Drainage work at the Clausthal mine in the Harz region in the 17th century: Achievements of the Japanese Peter Hartzing (1637-1680)
- 4) S. Master, The first geophysical studies, and descriptions of mineral deposits, in Thailand: The French Jesuits under Guy Tachard, and Simon de la Lubère, at the Siamese Court in 1687 and 1689.
- 5) T. Nakagawa, Professional Travelers: Considering Expanding Process of Professionalism in the Nineteenth-Century United States. --
- 6) M. Yajima, Prussian geographer J. J. Rein travelled to Japan in 1873-76 and introduced Japan to the world.
- 7) J. Diemer, Crossing the Urals: A Glimpse into Asia in 1841.
- 8) C. Bacon, Charles Gould: Travels in Asia.
- 9) P. Krzywicz, BRONISŁAW GRĄBCZEWSKI AND LEON BARSZCZEWSKI, THEIR TRAVELS IN CENTRAL ASIA IN XIX CENTURY AND CONTRIBUTIONS IN GEOLOGY.
- 10) M. A. Saporin, The Early History of Graptolites Discovery in Asia.
- 11) E. Vaccari, Geological travels and mapping in the Himalayan region between the 19th and the 20th century.
- 12) S. Kato, Multifaceted Nature of Japanese Geological Explorations amid Japanese Imperial Expansion to China in the early 20th century.
- 13) C. Sun, Western scholars’ geoscientific travels in China during the late 19th and early 20th centuries.



基調講演では南アフリカのマスターが「タクラ・マカン、パミール、カラコルム、インドガンジス平原、シンハラ、ジャワ：西暦5世紀初頭のファシアン（ファヒエン）の仏教地誌」として法頭の旅行を扱い、これを受けて、山田俊弘「円仁の中国巡礼記：9世紀日本の仏教徒のジオ意識」が仏教者による地球認識を検討した。以降、初期近代以降に入つて、小澤健志「17世紀ハルツ地方クラウスタール鉱山の排水工事：日本人ペーター・ハルツィング（1637-1680）の業績」、**図1 小澤健志氏の発表（写真：中川智視）**

マスター「タイでの最初の地球物理学的研究と鉱床の記述：1687年と1689年にシヤム宮廷でのギユイ・タシャールとシモン・ド・ラ・ルベールの下でのフランスのイエズス会」が発表された。以下19世紀以降の話となり、中川智視「プロフェッショナル・トラベラーズ：19世紀アメリカにおけるプロフェッショナルリズムの拡大を考える」、矢島道子「プロイセンの地理学者J. J. レインは1873年から76年にかけて日本を旅行し日本を世界に紹介した」と日本の事例が披露された。

コーヒーブレイクの後、ディーマーが「ウラル山脈を横断する：1841年のアジアを垣間見る」、バイコンが「チャールズ・グールド：アジア旅行記」としてイギリス人の事例を紹介した。前者はマーチソンの事績を追ったものだ。ポーランドからはクルジュウイェツ「ブロニスラフ・グロンブチエフスキーとレオン・バルシュ

In the keynote speech, Sharad Master (South Africa) dealt with Faxian's travels as "Takla Makan, Pamir, Karakoram, Indo-Gangetic Plain, Sinhala, Java: Buddhist Topography of Fasian (Fahien) in the Early 5th Century AD." Following this, Yamada Toshihiro's "Ennin's Pilgrimage to China: Geo-consciousness of Japanese Buddhists in the 9th Century" examined Buddhists' perception of the Earth. After that, moving into the early modern period, Ozawa Takeshi's "Drainage Works of the Clausthal Mine in the Harz Region in the 17th Century: The Achievements of the Japanese Peter Harzing (1637-1680)" and Master's "The First Geophysical Research in Thailand and Description of the Deposits: The French Jesuits under Guy Tachard and Simon de la Loubaire at the Siamese Court in 1687 and 1689," were presented. The rest of the talk was about the 19th century and beyond, with Japanese examples presented by Nakagawa Tomomi in "Professional Travelers: Considering the spread of professionalism in 19th century America," and Yajima Michiko in "Prussian geographer J. J. Laing travelled to Japan from 1873 to 1876 and introduced the country to the world."

After a coffee break, John Diemer introduced British examples, including Murchison, in "Crossing the Ural Mountains: A Glimpse of Asia in 1841." Carol Bacon described "Charles Gould: Travels in Asia." From Poland, Piotr Krzywiec presented on "Bronislaw Głombczewski and Leon Barszczewski, Travels to Central Asia in the 19th Century and Their Contributions to Geology." From Malaysia, Muhammad Aqqid Saporin presented on "The Early History of the Discovery of Hudeish in Asia." Vaccari's "Geological travel and mapping of the Himalayan region in the 19th and 20th centuries" and Kato Shigeo's "The multifaceted nature of Japanese

チェフスキー、「19世紀の中央アジアへの旅行と地質学への貢献」、マレーシアからはサパリン「アジアにおけるフデイシ発見の初期の歴史」の報告があった。ヴァツカーリ「19世紀から20世紀にかけてのヒマラヤ地域の地質学的旅行と地図作成」、加藤茂生「20世紀初頭の帝国日本の中国への膨張における日本の地質調査の多面性」はそれぞれ旅行とその成果の文脈を問うて特徴的だった。孫は「19世紀後半から20世紀初頭にかけての西洋の学者による中国への地学旅行」を発表する予定だったが、残念ながらキャンセルされた。

4) 人新世

8月29日(木)には午前中(08:00~11:00)同じくM314室にて「人新世」のセッションが持たれた。これまでもいろいろな形で話題となってきたテーマだが、INHIGEOの提案としては、「人新世、歴史、地球科学: 今日的論争への貢献」のタイトルのもと歴史研究がどのような貢献ができるかという課題設定だった⁷。コンビーナはフランスのクロディーヌ・コーエンとカナダのアーニー・ハムが務め、8件のトークがあった(1件はキャンセル)⁸。

geological surveys during the expansion of Imperial Japan into China in the early 20th century,” were distinctive, questioning the context of travel and its results. Sun Chengsheng was scheduled to present “Geological travels to China by Western scholars in the late 19th and early 20th centuries,” but unfortunately it was canceled.

4) The Anthropocene

On Thursday, August 29th, a session on the Anthropocene was held in the morning (8:00 - 11:00) in Room M314. This is a topic that has been discussed in various ways in the past, but INHIGEO proposed setting the topic of how historical research can contribute under the title “The Anthropocene, History, and Geosciences: Contributions to Contemporary Debates.” The conveners were Claudine Cohen from France and Ernie Hamm from Canada. There were eight talks (one was canceled).

In fact, the proposal made by the Anthropocene Working Group (AWG) of the International Union of Geological Sciences last year to use Crawford Lake in Canada as the type site and to name the period from 1952 onwards as the Anthropocene was rejected by the upper committee in March, and in a sense this was a very interesting session

⁷ Session T38-S1, Anthropocene, History and the Geosciences: contributions to contemporary debates (<https://www.igc2024korea.org/calenders/16/programs/334>).

⁸ 1) [Keynote] J. Renn, The decision in favor of the Anthropocene.
 2) T. Yamada, The Historiography of the Earth and ‘Anthropocene’: Regional Geo-history and Possible Worlds in the Steno-Leibniz Process.
 3) E. Hamm, The Anthropocene, Crawford Lake and Human-Geological Interactions.
 4) F. M. G. McCarthy, et al., Why the concept of the Great Acceleration is crucial to defining the Anthropocene.
 5) J. Hu, et al., Climate change revealed by the sedimentary record of the Pearl River Estuary and its implications for the Anthropocene.
 6) M. Wagreich, et al., Anthropocene scepticism?.
 7) A. Damianos, Georjuridicality: law, forensics and the Anthropocene. キャンセル
 8) R. M. Brain, “Soils and Sciences in the Anthropocene: Historiographic Considerations.”
 9) C. Cohen, EARLY-MODERN VISIONS OF THE « EARTH SYSTEM » LEIBNIZ, TELLIAMED, HUTTON. 一部タイトル変更され、テリアムドではなくビュフォンが扱われた。

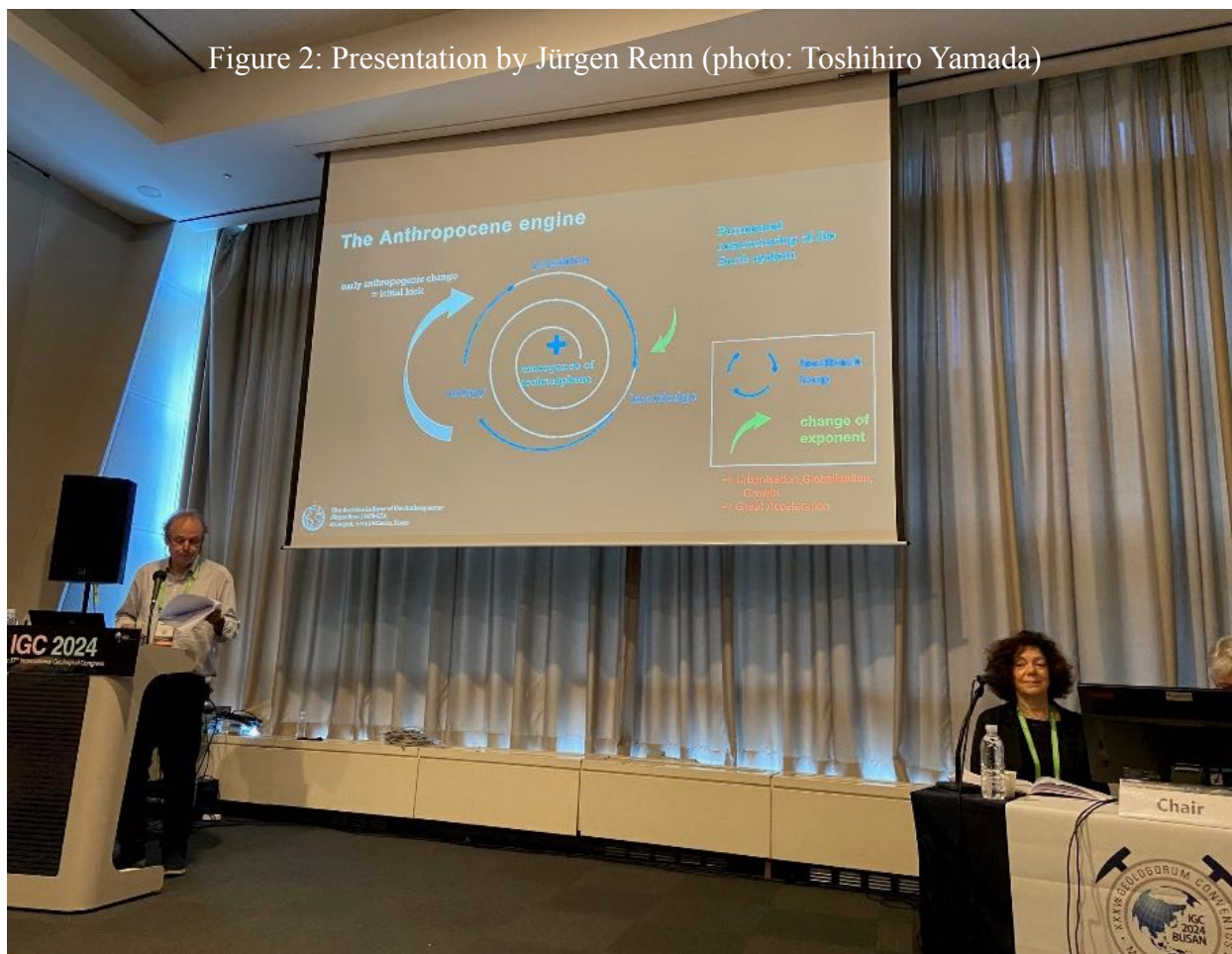


Figure 2: Presentation by Jürgen Renn (photo: Toshihiro Yamada)

実は、国際地質科学連合の人新世作業部会（AWG）がカナダのクロフォード湖を模式地として1952年以降を「人新世」とする昨年の提案が、この3月に上部委員会で否決されており、その妥当性をめぐる評価が微妙に交錯する、ある意味で非常に興味深いセッションとなった。しかし、その辺のニュアンスを含めて整理するには細部の分析が必要となるので、ここでは概略の報告にとどめる。

基調講演はドイツのマックスプランク科学史研究所のレンが「人新世に好意的な決定」と題し、むしろこの機会を前向きにとらえ、人文学や社会科学を含めた包括的な議論の枠組みを示した。続いて、山田俊弘「地球史の記述法と「人新世」：ステノ＝ライプニッツ・プロセスにおける地域地史

with subtle differences in evaluation of its validity. However, detailed analysis is required to sort out the nuances, so I will only report on the outline here.

The keynote speech was given by Jürgen Renn, Director of the Max Planck Institute for Geoanthropology in Jena, Germany, entitled “A Decision in Favour of the Anthropocene.” Renn took this opportunity in a positive way and presented a comprehensive framework for discussion that included the humanities and social sciences. Next, Toshihiro Yamada, “Description of Earth History and the Anthropocene: Regional Geological History and Possible Worlds in the Steno-Leibniz Process,” and Hamm, “The Anthropocene, Crawford Lake, and Human-Geological Interactions,” raised issues in

と可能世界」とハム「人新世、クロフォード湖、人間・地質相互作用」が歴史研究上の課題を提起した。実例として、カナダのマッカーシーらが「大加速の概念が人新世を定義するために重要であるのはなぜか」でクロフォード湖の事例を、中国の胡らが「珠江河口の堆積記録から明らかになった気候変動と人新世への影響」で中国南部のデルタの例を示した。

図2 ユルゲン・レン氏の発表（写真：山田俊弘）

後半は、ウィーン大学のグループが「人新世の懐疑論？」として議論の否定的な側面に触れつつ論点の整理を試み、ブリテイッシュ・コロンビア大学のブレインが「人新世の土壌と諸科学：歴史記述上の考察」として興味深い視点を提示した。最後にコーエンが「地球システム」の初期近代のビジョン：ライプニッツ、ハットン、ビュフォン」の演題で、むしろ近代地質学成立以前の歴史を見直すことで認識論的な面を含めた議論の糸口が与えられるのではないかと締めくくった。

5) ジオサイト

8月30日（金）は早朝から（08:00~09:45）「地質科学史におけるジオサイトとジオルート」のセッションがあり⁹、展示ホール1のM211室で、ヴァツカーリとケルブル＝エバートのコンビーナのもとで実施された。プレゼンテーションは以下の通りで、イタリアの事例を中心に、

As examples, McCarthy et al. from Canada presented the example of Lake Crawford in “Why the concept of the Great Acceleration is important for defining the Anthropocene,” while Hu Weiwei et al. from China presented the example of the delta in southern China in “Climate change and its impact on the Anthropocene revealed by sedimentary records from the Pearl River Estuary.”

In the second half, a group from the University of Vienna attempted to organize the issues while touching on the negative aspects of the debate in “Skepticism about the Anthropocene?”, and Robert Brain from the University of British Columbia presented an interesting perspective in “Soils and Sciences in the Anthropocene: Historiographic Considerations.” Finally, Claudine Cohen concluded her presentation with the title “Early Modern Visions of the Earth System: Leibniz, Hutton, and Buffon,” suggesting that a new perspective on the history before the establishment of modern geology may provide a clue to the debate, including the epistemological aspects.

5) Geosites

On Friday, August 30th, the session “Geosites and Georoutes in the History of Geological Sciences” was held early in the morning (08:00 - 09:45) in Room M211 of Exhibition Hall 1, convened by Vaccari and Kölbl-Ebert. The presentations are as follows, and all of them were rich in images and interesting, focusing on Italian examples.

⁹ Session T27-S3, Geosites and Georoutes in the History of Geological Sciences (<https://www.igc2024korea.org/calenders/16/programs/94>).

いずれも画像豊かで見飽きなかった¹⁰。

まず、基調講演「IUGS 地質遺産、私たちの科学の歴史への認識」では、IUGS国際地質遺産委員会のヒラリオ氏が本セッション設定の背景としてIUGSにおける地質遺産 (Geoheritage) 制定の経緯と意義を説明した。これに画像表現に着目したナポリターニの「遺産を越える。ジオサイト、ジオヘリテージ、そして画像によるその歴史」が続き、以下事例研究として、プリンチペ「ヴェスビオ火山のジオルート」、ケルブル＝エバート「マルイアの滝 (ニューゼaland) : 内核の発見のための歴史的なジオサイト」、ヒストン「アーチボルド・ギイキーとエドワード・ハル・ツアー1887年: ドニゴール州 (アイルランド) の歴史的なジオルートとジオサイトを探して」、ヴァッカーリ「アグノ溪谷とジョヴァンニ・アルドウィーノの1758年の断面図: 岩相層序学誕生のアイコンで古典的イメージ」、ヴェッツォーリとプリンチペの「火山学史におけるモンテ・アミアータ (イタリア、トスカーナ)」が発表された。

First, in the keynote speech “IUGS Geological Heritage, Recognition of Our Scientific History,” Asier Hilario of the IUGS International Committee for Geological Heritage explained the background to the establishment of this session, as well as the significance of the establishment of geoheritage at IUGS. This was followed by Maddalena Napolitani's “Beyond Heritage: Geosites, Geoheritage and Their History in Images,” which focused on image representation, and the following case studies were presented: Claudia Principe's “Geo-Route of Mount Vesuvius,” Martina Kölbl-Ebert's “Maruia Falls (New Zealand): A Historic Geosite for the Discovery of the Inner Core,” and Kathleen Histon's “Archibald Geikie and Edward Hull Tour 1887: A Historic Geosite in County Donegal (Ireland).”

The following presentations were given: “The Agno Valley and Giovanni Arduino's 1758 Cross Section: An Iconic Site and a Classic Image for the Birth of Litho-Stratigraphy” by Ezio Vaccari, and “Monte Amiata (Tuscany, Italy) in the History of Volcanology” by Luigina Vezzoli and Claudia Principe.

¹⁰ 発表リストは次を参照。

- 1) [Keynote] A. Hilario, IUGS Geological Heritage Sites. A recognition to the history of our science.
- 2) M. Napolitani, Crossing Heritages. Geosites, Geoheritage and their History through Images.
- 3) C. Principe, VESUVIUS GEOROUTES.
- 4) M. Kölbl-Ebert, Maruia Falls (New Zealand): a Historical Geosite for the Discovery of the Inner Earth Core.
- 5) K. Histon, Archibald Geikie and Edward Hull Tour 1887: in search of historical georoutes and geosites in County Donegal (Ireland).
- 6) E. Vaccari, The Agno Valley and Giovanni Arduino's 1758 cross section: an iconic site and a classic image for the birth of lithostratigraphy.
- 7) L. Vezzoli and C. Principe, MONTE AMIATA (TUSCANY, ITALY) IN THE HISTORY OF VOLCANOLOGY.

ワークショップ

ワークショップのテーマは「地質学の隠された歴史」で、若い世代向けに企画されたが年齢に関係なく開放され実りある議論が行われた¹¹。参加者が提示したケーススタディを通じて、これまであまり研究されていなかった、または最近明らかになった地質学の歴史のいくつかの側面に光を当てるのが目的だった。さまざまな種類の未研究および未編集の情報源（文書だけでなく標本などの事物、口頭での目撃証言などを含む）、よく知られていない人物、方法論的アプローチなどが想定されていた。テーマ別に6つのプレゼンテーション（若手研究者4名、シニア研究者2名）が約10分間ずつ行われ、その後質疑応答に移った。地質学史の話題というと西欧が中心になりがちだが、フィンランドやマレーシア、インドネシア（日本への留学生による）、中国などの事例も紹介され、今後の地質学史の多様な展開が期待できるようだった。全体として、研究の視野を広げ、地球科学に関連する歴史的研究の「隠された」ものについてより広く考える機会となるような有意義な集いとなった。

ビジネスミーティング

今年のビジネスミーティングは、8月28日（水）の午後7時より、ベクスコ近くの釜山アルピナ・ユースホステルの「ガラム」の間で行われた。1年間の情勢報告が会長のヴァツカーリ氏よりなされ、事務局長のケルブル＝エバート氏より細かな活動報告があった。編集長のデーマー氏より年報や *ESH* 特集号編集の経過説明があり、来年度からオクラホマのケリー・マグルーダー氏に代わるこ

Workshop

The theme of the workshop was “The Hidden History of Geology”, and although it was designed for the younger generation, it was open to all ages and led to fruitful discussions. Through case studies presented by the participants, the aim was to shed light on some aspects of the history of geology that have not been studied much or have only recently come to light. Various types of unstudied and unedited sources (including documents but also physical objects such as specimens, oral witness testimonies, etc.), little-known personalities, methodological approaches, etc. were envisaged. Six presentations (four young researchers and two senior researchers) were given on each theme for about 10 minutes each, followed by a Q&A session. While the topic of geological history tends to be centered on Western Europe, examples from Finland, Malaysia, Indonesia (by students studying in Japan), and China were also introduced, and it seems that we can expect diverse developments in the history of geology in the future. Overall, it was a meaningful gathering that broadened the scope of research and provided an opportunity to think more broadly about the “hidden” aspects of historical research related to earth science.

Business Meeting

This year's business meeting was held on Wednesday, August 28th, from 7pm in the “Garam” room of the Busan Alpina Youth Hostel near Bexco. Chairman Ezio Vaccari gave a report on the situation over the past year, and Secretary General Kölbl-Ebert gave a detailed activity report. Editor-in-chief John Diemer explained the progress of the annual report and the editing of the *ESH* special issue, and announced that Kerry Magruder from Oklahoma

¹¹ Workshop 22, INHIGEO Workshop on 'Hidden Histories of Geology', scheduled on Friday 30 August 2024, 13:50-15:50 (<https://www.igc2024korea.org/content/14404>). 筆者は残念ながら参加できなかったのですが、この部分は主催したナポリターニ氏とワークショップのプレゼンテーションの部分に参加した中川智視氏の情報による。

とが報告された。IUGS-INHIGEO リエゾン・コーディネーター（Publications and outreach coordinator）のヒストン氏から *Episodes* 誌への寄稿や、ウェブ記事 *Anniversaries* の件数が 50 を越え 60 になるだろうとの報告があり、その貢献に惜しめない拍手が送られた。

will take over next year. Kathleen Histon (Publications and outreach coordinator), reported that the number of contributions to *Episodes* magazine and web article anniversaries will exceed 50 and reach 60, and she was given generous applause for her contributions.



Figure 3: Young researcher Lucero Morelos-Rodriguez receiving her award (photo: Michiko Yajima)

会員に関しては、日本からの小澤健志氏をはじめ、新しいメンバー8人が正式に承認された。ボードメンバーは10人のうち半分が入れ替わり、アジア地区（副会長）は私から中国の孫氏に引き継いだ（慣例により、2024-2032年のタームを中国が担当する）。若手研究者の賞はメキシコのルセロ・モレラス＝ロドリゲス氏に決まり記念

Regarding membership, eight new members were officially approved, including Mr. Takeshi Ozawa from Japan. Half of the ten board members were replaced, and the position of Asia Region (Vice President) was handed over from me to Sun Chengsheng from China (by tradition, China will be in charge for the term 2024-2032). The Young Researcher Award was given to

CONFERENCE REPORTS (2024)

品が手渡された。4年ごとのテイホミロフ・メダル (V. V. Tikhomirov Medal) はケン・テイラー氏に贈ることが報告された (9月下旬にオクラホマで授賞式が行われた)。

Lucero Morelos-Rodríguez from Mexico, who was presented with a commemorative gift. It was reported that the quadrennial Tikhomirov Medal (V. V. Tikhomirov Medal) would be awarded to Prof. Kenneth L. Taylor (the award ceremony was held in Oklahoma in late September).

図3 若

手研究者の表彰風景 (写真: 矢島道子)

最後に、今後のシンポジウム開催地について説明や紹介が行われた。2025年6月29日～7月5日はニュージーランドのダニーデンで開催される国際科学史会議に合流しセッションを担当する。2026年はジンバブエでマスター氏より提案があり、2027年はオーストリア (ウィーン) でハミルトン氏よりプレゼンが行われた。2028年は次のIGC の開催地カルガリーの予定である。おとりとして、矢島道子氏より9月1日からの「北九州巡検」は台風接近にもかかわらず実施したいと表明があり大概の賛同を以て散会となった。

会長講演にもあったが、不安定な自然的・政治的状况にあっても、多様なバックグラウンドを持つ研究者のコラボレーションを追求する「インヒゲオ・スピリッツ」は柔軟にして強靱だと改めて感じ入った次第である。

Finally, the locations of future symposiums were explained and introduced. From June 29 to July 5, 2025, we will join the International Congress on the History of Science to be held in Dunedin, New Zealand, and be in charge of a session. In 2026, a proposal was made by Sharad Master to hold the symposium in Zimbabwe, and Margret Hamilton made a presentation proposing Vienna, Austria for 2027. In 2028, the next IGC will be held in Calgary. As the main event, Michiko Yajima expressed her desire to continue the “Kitakyushu Excursion” from September 1, despite the approaching typhoon, and the meeting was adjourned with general approval.

As mentioned in the Chairman's speech, I was once again impressed by the flexibility and strength of the “INHIGEO Spirit,” which pursues collaboration among researchers with diverse backgrounds, even in unstable natural and political conditions.

Post-Congress Japan Tour: Northern Kyushu Excursion, September 2024

Field excursion report submitted by John Diemer

INHIGEO fieldtrip to southern Japan, 1 to 4 September.

The fieldtrip left Busan by ferry to travel to Hakata Port in Fukuoka, Japan. We visited Fukuoka, Imaemon Porcelain Kiln in Arita, Shimabara Geo Park, the Mt. Unzen volcano area, a traditional Japanese Onsen with a hot spring spa and Nagasaki including the Nagasaki Atomic Bomb Museum and the Nagasaki Museum of History and Culture.

As of June 9th, 17 INHIGEO members and accompanying persons applied to participate in the excursion after the Busan IGC, supported by JAHIGEO.

On 1st September at 14 o'clock, participants met at the Busan Port International Passenger Terminal (South Korea). At 18:40 participants arrived at Hakata Port, Fukuoka (Japan). About 10 Japanese Members welcomed the travellers there. On 2nd September, participants visited Imaemon Kiln and Izumiyama Quarry. After lunch they visited Gamadasu Dome (Volcano Exploratorium). At night they stayed at a Japanese style hotel and enjoyed the hot spring. On 3rd September, participants visited Unzen Ropeway (Shimabara Peninsula Viewpoint) and Unzen Hell (origin of hot spring), undertook an afternoon visit to Nagasaki City Dinosaur Museum and Nagasaki Peace Park (Ground Zero of the atomic bomb), and at night enjoyed a Sayonara party, a social gathering at "Izakaya" (Japanese-style pub).

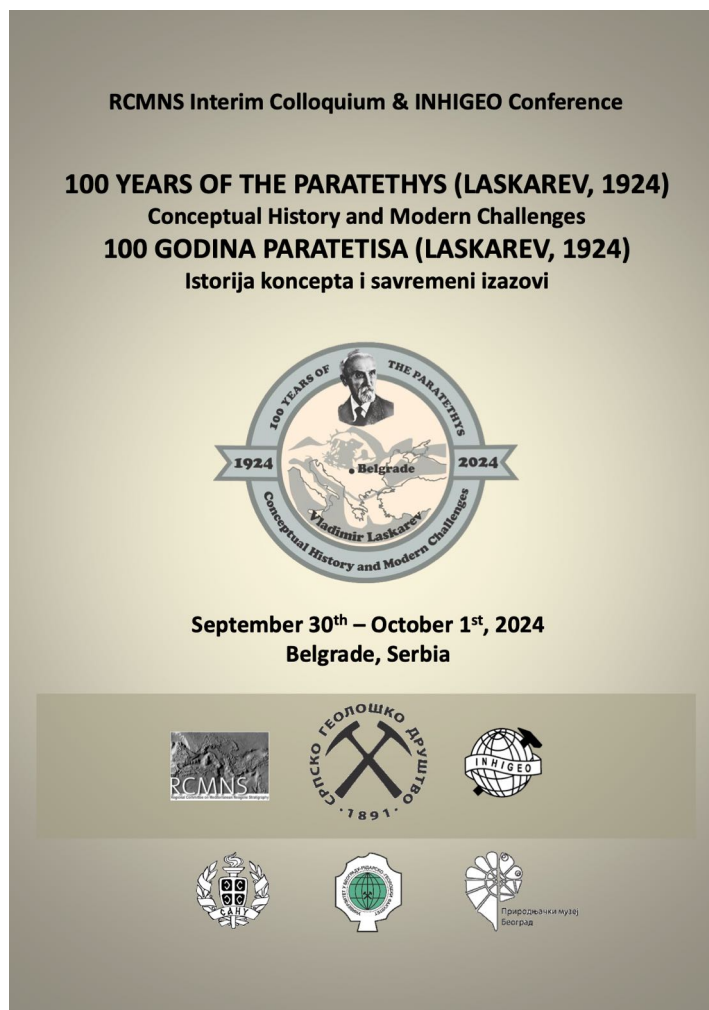


The INHIGEO field trip participants at Imaemon Porcelain Kiln in Arita. Photo: Ezio Vaccari.

100 years of the Paratethys

The conference “100 years of the Paratethys (Laskarev, 1924): Conceptual History and Modern Challenges” was held in Belgrade, Serbia, September 30 – October 1, under the auspices of the Regional Committee on Mediterranean Neogene Stratigraphy (RCMNS) and the International Commission on the History of Geological Sciences (INHIGEO). It included a field trip, “Following Laskarev’s footpaths,” on the second day. View and download the Abstracts, Field Trip Guide, and photos from the conference website: <https://sgd.rs/100paratethys/>.

Organizing committee: Ljupko Rundić – chair (Serbia); Meri Ganić (Serbia); Vladimir Simić (Serbia); Oleg Mandić (Austria); Aleksandra Maran Stevanović (Serbia); Dragana Životić (Serbia); Katarina Bradić-Milinović (Serbia); Uroš Đurić (Serbia); Nevena Tomašević (Germany); Jelena Stefanović (Serbia).



Conference venue: Serbian Academy of Sciences and Arts, Belgrade, Serbia.

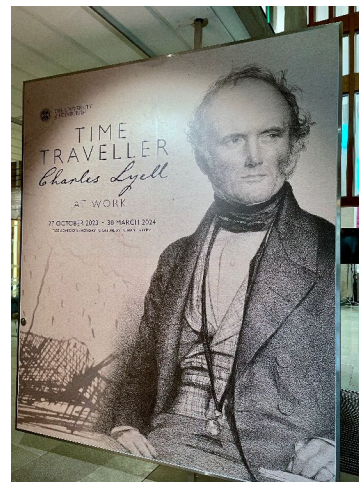
WORKING WITH CHARLES LYELL

Two-day workshop, 8-9 February 2024, University of Edinburgh

Source: Edinburgh Geological Society, <https://edinburghgeolsoc.org/workshop-working-charles-lyell/>

This workshop built upon the following initiatives:

1. In 2020, the University of Edinburgh acquired for the nation the Notebooks of the distinguished geologist and earth scientist Charles Lyell (1797-1875) and, in 2021, the University received a further substantial tranche of Lyell's scientific papers and correspondence.
2. Staff in the University's Centre for Research Collections have since been working to conserve, catalogue, digitise and promote the Lyell materials.
3. An exhibition on Lyell's work and scientific importance – **'Charles Lyell: Time Traveller'** – ran from 27 October 2023 through 30 March 2024.
4. A website on the Lyell material in Edinburgh is to be launched shortly.



The purpose of the Workshop was to bring together researchers, museum curators and others with an interest in the life, work, and collections of Charles Lyell, to learn more of the Lyell materials held in Edinburgh, to explore how best to connect the disparate holdings of Lyell's specimens and texts, and to consider future research possibilities on Lyell's work and world.

Workshop Locations

The Workshop was based at St Cecilia's Hall, University of Edinburgh. Day 1 concluded with an evening drinks reception at the Playfair Library, generously supported by the British Society for the History of Science. The afternoon of Day 2 featured a visit to see some of the Lyell materials held at the Centre for Research Collections at the Main University Library, George Square, Edinburgh, and an opportunity to visit the current 'Time Traveller: Charles Lyell at Work' exhibition.

Workshop Programme

The exciting and diverse programme consisted of 16 papers on Lyell's work, the world of nineteenth-century science, the context to and the lasting significance of his work. There were also two panel sessions:

- 1) Curatorial and archival staff in institutions holding Lyell material explored opportunities and problems involved in linking archival holdings and object collections across institutions.
- 2) We considered the opportunities and possibilities for further research and collaboration on Charles Lyell's work and significance.

HOGG BICENTENARY SYMPOSIUM: ‘ENORMOUS FOSSIL ANIMAL AND ALMOST PERFECT SKELETON’

20-21 February 2024, Oxford University Museum of Natural History.

This symposium, organised by the History of Geology Group and the Oxford University Museum of Natural History, marked the first detailed accounts of the Megalosaurus (Buckland) and Plesiosaurus (Conybeare), read at the Geological Society meeting of 20 February 1824. A reenactment of those two talks was held at 20 Bedford Street on 20 February 2024.

HOGG MEETING:

Historic meteorite falls in Britain: their impact on geological and extra-terrestrial thinking.

May 21, 2024 (online):

1795 - The Wold Newton Meteorite, Yorkshire, with Roger Osborne.

1876 - The Rowton Meteorite, Shropshire, with Peter Tandy

1923 - The Ashdon Meteorite, Essex, with Mike Howgate

HOGG MEETING:

The history of geological discovery in polar regions

16–17 July, 2024, Cambridge.

Joint meeting with the Geological Curators’ Group (GCG).

Day 1: at the British Antarctic Survey Headquarters, with papers on geological discovery in both north and south polar regions.

Day 2: visits to polar archives of geological material at the Sedgwick Museum, and Scott Polar Research Institute.

36TH CONGRESS OF THE COMITÉ INTERNATIONAL D'HISTOIRE DE L'ART (CIHA)

23–28 June 2024, Lyon.

INHIGEO members Victor Monnin (Illinois Institute of Technology, Chicago) and Maddalena Napolitani (Museo Galileo, Florence) organized a panel entitled “Grounding the Arts. Crossing the History of Arts and the History of Earth Sciences.”

Slot 1 – 26 June (9:00-10:30):

- Maximilian Geiger (University of Wuppertal/ University of Konstanz): Economy, Earth, and Spirituality: The Antependium of the Beyenburg High Altar
- Martina Baraldi (Ludwig Maximilian University, Munich): The Display of Cosmos and Human Nature in Stones: Gems as Pieces of Art and Science
- Geoffrey Ripert (Bard Graduate Center, New York): L'ingénieur, le marquis et la montagne: la prospection marbrière et sa contribution au goût pour l'objet d'art en marbre en France (1760–1810)
- Elodie Baillot (Université Lumière Lyon 2) : Des vertus de la terre à la Valeur patrimoniale des oeuvres. Enjeux d'attribution dans l'historiographie de l'art céramique au 19e siècle.

Slot 2 – 26 June (11:00-12:30):

- Helen Bremm (University of Cambridge) and Sandra Zetina Ocaña (Universidad Nacional Autónoma De México, Mexico City): Earth Pigments, Sacred Mountains, and Deep-Time: The Stratigraphy of Leonora Carrington's “El Mundo Mágico de los Mayas” (1963–1964)
- Tsz Ching Joy Zhu (University of California, Los Angeles): Secularizing the Dragon in Modern Republican China
- Margarida Brito Alves (Nova University of Lisbon): Fernando Lanhas: An Earthbound Abstraction
- Marta and Pawel Tomczok (University of Silesia, Katowice): Carbon Art and Its Role in the Decarbonization Process of the Upper Silesian Coal Basin

GEOLOGICAL SOCIETY OF AMERICA ANNUAL MEETING

22-25 September 2024, Anaheim, California.

At the annual meeting in the Anaheim Convention Center numerous papers were presented related to the history of geology. Two sessions were sponsored by the History and Philosophy of Geology Division:

Session T79 “Found in the Collection: Histories revealed”

12 papers presented.

Presiding: Patricia Courough Burke, Renee M. Clary, and Paul Mayer.

Session description: Research using geological collections in museums, universities, and parks encompasses more than object name and location. Studying these collections for scientific revision, for digital conversion or for exhibit planning takes the researcher to associated historical documents and publications in order to reconstruct their stories. From disputes and discussion of taxonomic classification found in correspondence, to biographies of the scientists and collectors, to the stories from field collecting, the research traces a neglected part of the history of geoscience. Often this deep research is reduced to a summary paragraph in a paper, a brief mention on an exhibit label or a more accurate record in a database. In this session we would like to provide a space for this research to be presented and highlight the interaction between history and geoscience.



Patricia Courough Burke (left); Renee M. Clary (right). Photo by Kerry Magruder.

Session T40 “Human Dimensions of Geoheritage”

This session was organized by Christina DeVera and Tim Henderson. 14 papers and 2 posters were presented with panel discussion.

Session description: Presentations explored the human dimensions of geoheritage to understand impacts of geologic phenomena on human history, effective methods of science communication, and the importance of geoconservation through increased knowledge and public interest.



History and Philosophy of Geology Division booth in the exhibit hall.
Photo by Kerry Magruder.

3. FORTHCOMING CONFERENCES

INHIGEO and IUGS overview

INHIGEO, 50th Annual Symposium 2025, with the 27th ICHST Congress | New Zealand

INHIGEO, 51st Annual Symposium 2026 | South Africa and Zimbabwe

IUGS Initiative on Forensic Geology 15th anniversary, History of Forensic Geology | Rome

INHIGEO and IUGS overview:

- IUGS, History of Forensic Geology, May 21-23, 2025. Rome.
- INHIGEO, 50th Annual Symposium, June 29 - July 5, 2025. Dunedin, New Zealand.
- INHIGEO, Post-Symposium excursion, July 7-13, 2025. North Island, New Zealand.
- INHIGEO, 51st Annual Symposium, 2026. Johannesburg, South Africa; and Victoria Falls, Zimbabwe.
- INHIGEO, 52nd Annual Symposium, 2027. Vienna, Austria.
- INHIGEO, 53rd Annual Symposium, 2028. Calgary, Canada. (With IGC.)
- INHIGEO, 54th Annual Symposium, 2029. Location tbd. (With the 28th International Congress of History of Science and Technology.)
- INHIGEO, 55th Annual Symposium, 2030. Meknes, Morocco.

INHIGEO, 50th Annual Symposium 2025, with the 27th ICHST Congress

June 29 - July 5, 2025. Dunedin, New Zealand

In 2025, the 50th INHIGEO Symposium will take place in Dunedin, New Zealand, in association with the 27th International Congress of History of Science and Technology. The theme of the 27th ICHST is “Peoples, Places, Exchanges, and Circulation.”

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.

The organizers plan for a hybrid meeting. Hamish Campbell will guide and organize a post-conference excursion, 7-13 July, on the North Island, from Wellington to Auckland.

For more detailed information, see the conference website: <https://www.ichst2025.org/>.

INHIGEO, 51st Annual Symposium 2026

2-15 September 2026, Johannesburg (South Africa) and Victoria Falls (Zimbabwe)

Sharad Master

In 2026, the 51st INHIGEO Annual Symposium will meet in Johannesburg (South Africa) and Victoria Falls (Zimbabwe). 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 (the international airline hub for Southern Africa). 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 see Victoria Falls (a World Heritage site), and enjoy a sunset cruise on the Zambezi River upstream from the Falls. There will be a day trip across the border into Zambia to visit the Livingstone Museum and 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 12th to 14th 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 7th 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

4th to 11th of December 2026 plus the post-conference fieldtrip ending in Bulawayo on December 16th, from where delegates can fly on to Johannesburg or other regional destinations.

IUGS Initiative on Forensic Geology 15th anniversary, History of Forensic Geology

21–23 May 2025, Rome.

INHIGEO will organize a session: “History of Forensic Geology – In Memory of Raymond Murray.”

Subtopics: History of Forensic Geology; Modern Forensic Geology; Forensic Geology and historical artifacts; National history of Forensic Geology with case histories; Forensic geology as a tool for historians; Geological fakes and frauds; Comparative research methodologies in forensic geology and the history of geology.

Further information: <https://www.iugs-ifg2025.com/>

4. INHIGEO PUBLICATIONS & ACTIVITIES

This section collects information about publications by INHIGEO or arising from INHIGEO-sponsored activities.

New INHIGEO Website now online

Proceedings of the 47th INHIGEO Symposium

Earth Sciences History

The Second 100 IUGS Geological Heritage Sites

Episodes (IUGS)

Anniversaries (IUGS E-Bulletin and Website)

INHIGEO Webinars

INHIGEO Archive

New INHIGEO Website now online

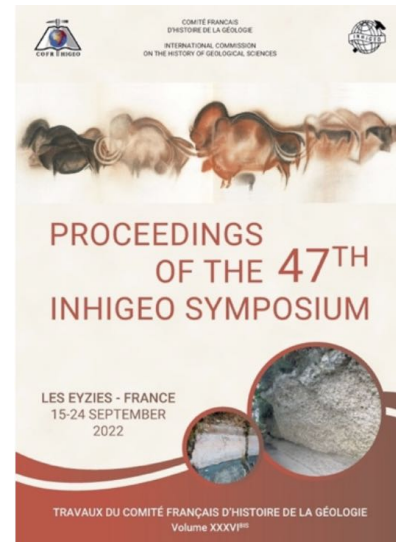
The new website, <https://inhigeo.org/>, designed and managed by webmaster Maria Faccioli, has just been launched online. It provides extended information about the work of our Commission, members, affiliated bodies, our wide-ranging activities from the Annual Symposia, online webinars, sponsored conferences and cross-disciplinary sessions and links to publications arising from research by our members worldwide as well as our outreach series “Anniversaries in Geo-history.” The website will be enriched and furtherly enlarged over time: suggestions and contributions from INHIGEO members are welcome!

<p>NEWS ABOUT OUR MISSION MEMBERSHIP ∨ BOARD DOCUMENTS ∨ GEO-HISTORICAL ARCHIVES ACTIVITIES ∨ SYMPOSIA ∨ PUBLICATIONS ∨ ANNUAL RECORD ANNIVERSARIES AWARDS GALLERY ∨</p>  	 <h3>Welcome</h3> <p>The International Commission on the History of Geological Sciences (INHIGEO) includes an active and growing community of individuals and institutions around the world.</p> <p>Our aim is not only the historical study of geological sciences in all their forms, but also its promotion and dissemination, as well as the creation of effective links between this historical knowledge and the broader contemporary context of the Earth sciences and humanities.</p> <p>This truly multicultural approach is one of our main strengths, together with a general attitude of mutual collaboration, scientific curiosity and friendship, which has developed particularly within the INHIGEO annual meetings and fieldtrips down through the years. In order to continue this positive trend, the Commission encourages proposals of new memberships, in particular from non-represented countries and from young researchers.</p> <p>INHIGEO achieves its objective by sponsoring a major annual symposium on specific themes with associated publications while fieldtrips on the history of geology of the host country complement the scientific sessions and promote awareness of this cultural resource for society. The commission issues a substantial “Annual Record” that details historical research into earth sciences worldwide by members, publicises pertinent historical activities, gives reports of ongoing projects/tasks and provides scholarly reviews. Current news is also given in the <i>INHIGEO Quarterly Circular</i>.</p> <p>INHIGEO was established by the International Union of Geological Sciences (IUGS) in 1967 and is also affiliated with the International Union of the History and Philosophy of Science and Technology (IUHPS) under the Division of History of Science and Technology (DHST).</p> <p>INHIGEO currently has 273 members from 56 countries and 13 affiliated organisations.</p>  	<p>INHIGEO Anniversary: March 2026</p> <p>INHIGEO Anniversary: February 2026</p> <p>INHIGEO Quarterly Circular: December 2025</p> <p>51th INHIGEO Symposium, South Africa – Zimbabwe (2-15 September 2026). 1st Circular</p> <p>INHIGEO sponsored session at EGU Vienna 2026</p> <p>Annual Record 2024</p>
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Proceedings of the 47th INHIGEO Symposium

15–24 September 2022, Les Eyzies, France

The proceedings volume of the 47th INHIGEO Symposium held in Les Eyzies, France in 2022, edited by Gaston Godard, Philippe Grandchamp and Pascal Richet, is published. It includes 21 collected papers and 16 abstracts, with a preface, comprising 277 pages. It is an issue of the journal *Travaux du Comité français d’Histoire de la Géologie*, 2023, 3^{ème} série (tome 36 bis). The papers may be downloaded from <https://hal.science/COFRHIGEO/browse/latest-publications>

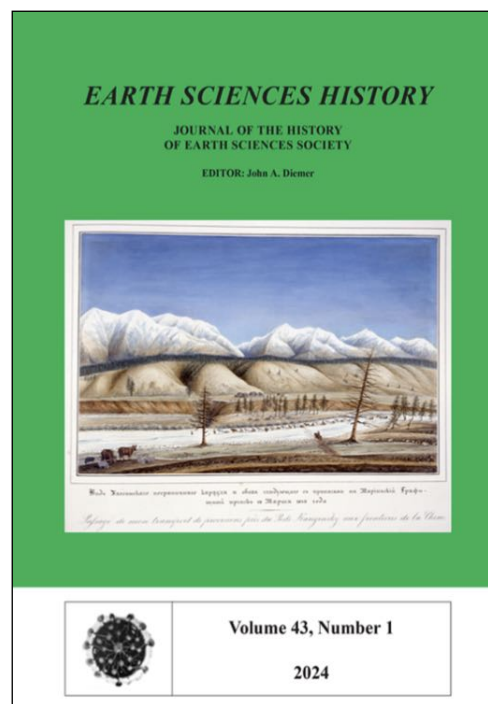


Earth Sciences History

Volume 43, No. 1, 2024

A set of six papers by Italian scholars in part arising from the INHIGEO sponsored session on History of Stratigraphy in Italy at the STRATI 2019 congress of stratigraphy held in Milan (Italy) are newly published in *Earth Sciences History*, vol. 43, issue 1, edited by John Diemer. They include studies on various aspects of the history of Italian geology including stratigraphy, travels and mining ranging from the 17th to 20th century. The papers are available at the link <https://meridian.allenpress.com/esh>

Cover image: Gouache by Carl Wolff entitled “Caravane de traîneaux transporting les provisions, 18 mars 1849,” from the album “Souvenir de mes voyages en Sibérie (1840-1860),” Musée des arts et métiers-Cnam, Paris. Photo by M. Favareille.



Volume 43, No. 2, 2024

A cross-disciplinary INHIGEO-sponsored symposium “Hidden Histories revealed in scientific revision of paleontological collections” was organized at the 6th International Paleontological Congress in Khon Kaen (Thailand) in November 2022. A collection of 14 papers arising from the symposium presentations are currently being processed by the guest editors (K. Histon, T. Yamada and S. Turner) together with the editor John Diemer as a two-part Special Issue of *Earth Sciences History*. Part 1, vol. 43, issue 2 (2024), edited by John Diemer, includes the first six papers on various aspects of the history of palaeontological collections ranging from the 17th to 20th century: Steno and the glossopetrae from Mercati’s Vatican collection (Toshihiro Yamada); the bones of the extinct Moa birds as hybrid objects (Marianne Klemun); mammalian fossils described by Gaudry from Greece (Victor Monnin); discovery of graptolite fossils in Malaysia (Muhammad Aqqid Saparin and Mohd Suhaili Ismail); links between displays of fossil collections and stratigraphy (David Harper) and international publication of “hidden” fossils from China (Chengsheng Sun). See <https://meridian.allenpress.com/esh>

The Second 100 IUGS Geological Heritage Sites



The Second 100 IUGS Geological Heritage Sites is the continuation of the 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 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 will 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.

Episodes (IUGS)

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, Kathleen Histon (hiscatnautiloid@gmail.com).

<i>Episodes</i> 47, 1(2024): 187-195	Susan Turner	IUGS-60th Women in the early years: Vera Lafferty and the beginnings of <i>Episodes</i>
<p>Abstract: The International Union of Geological Sciences (IUGS) is celebrating women and girls in geoscience and in celebrating the 60th anniversary of the IUGS, we must applaud those women who have pioneered the work of the International Union of Geosciences. Between 1976 to 1980, Prof. Rudolf Trümpy (Switzerland) was President of the IUGS and William Watt Hutchison (Canada), its Secretary General and later President (1984–1987). Hutchison appointed Canadian Vera Lafferty to his Secretariat under the auspices of the Geological Survey of Canada in Ottawa. In this post, she created not only the flagship <i>Episodes</i> magazine but forged a new style across the IUGS platform. Vera Lafferty’s major contributions to the foundation and style of <i>Episodes</i> and the promotion of the IUGS are recognized.</p>		
<i>Episodes</i> 47, 2(2024): 405-417	Volkan Sarıgül	The curious case of Karl Nagalhard and the central European influence on the early studies on the Cenozoic paleobotany in Turkey
<p>Karl Nagalhard (1881–1978), formerly known as Karl Nagel, was a German paleobotanist whose identity remained obscured due to his surname and career change at a relatively young age. He was active in paleobotany between 1914–1922, then he transferred to another academic field; but even so, continued to study paleobotany throughout his life. The life and research of Nagalhard are evaluated here as a part of the history of Cenozoic paleobotany in Turkey, including a synopsis of the early coal industry. The first significant accounts with descriptions and illustrations on the subject were produced by Unger, Engelhardt and Nagalhard, respectively, emphasizing the significance of the German speaking Central European paleobotanists. As being the youngest among them, Nagalhard determined three taxa from Ağaçalı Florula in İstanbul and seven taxa from Yeniköy Florula in Kütahya, and provided valuable remarks on the biostratigraphy and paleoenvironment in his publication which is examined here for the first time almost after a century.</p>		

INHIGEO Anniversaries (IUGS E-Bulletin and Website)

The INHIGEO Anniversary series of concise and popular papers on diverse aspects of the History of the Geological Sciences is published online in the IUGS E-Bulletin. At the invitation of the IUGS INHIGEO established this series in 2018 for short “Anniversary” articles that focus on a particular event, person, theory or pivotal publication in the Geological Sciences related to a certain year, sometimes down to the actual month, hence the overall title “Anniversaries.” A short outline of the topic in question is published in the IUGS E-Bulletin with a permanent link to the complete article archived on the Anniversaries page on the INHIGEO Website. The series has been well received and forms an important component of the INHIGEO commission’s outreach activities. If you are interested in submitting contributions for this series, please contact the INHIGEO Publications and Outreach Coordinator, Kathleen Histon (hiscatnautiloid@gmail.com).

IUGS E-Bulletin 202, Dec 2023 – Jan 2024	Silvia Figueirôa	Researching the Earth from Brazil: Alberto Betim Paes Leme (1883-1938)
IUGS E-Bulletin 202, December 2023 – Jan 2024	Kennard B. Bork	Alexandre Brongniart’s Mémoire sur les Terrains de Sédiment Supérieurs Calcaréo-Trappéens du Vicentin (1823)
IUGS E-Bulletin 202, December 2023 – January 2024	Gregory A. Good	John Herschel and His Geologist’s Hammer: 1824 European Tour
	Two hundred years ago, in the 1820s, geology was taking off. In France, Italy, Britain, and elsewhere, researchers mapped mineral types, described fossils, and considered Earth’s history as revealed by the rocks. John Herschel, one of England’s foremost mathematicians since university had plunged into the chemistry of minerals and paid special attention to the interaction of polarized light with crystals. When he set his sights on the Alps, the collection, description, and analysis of minerals and crystals was high on his list of desiderata.	
IUGS E-Bulletin 203, February – March 2024	Sandra Herbert	Charles Darwin’s Volcanic Islands (1844): A View From 180 Years After Publication

	<p>In 2024 we mark the 180th anniversary of Darwin’s book <i>Geological Observations on the Volcanic Islands, Visited During the Voyage of H.M.S. Beagle</i>. Chapter 6 of that book is highly theoretical in nature since it treats the genetic relationship between trachyte and basalt, his claim was that trachyte and basalt might be produced from the same volcanic vent. The locus for Darwin’s original observations was his geological work on Isla Santiago (James Island) in the Galápagos Archipelago explored in 1835. In 2007 a team of researchers set out to survey the island and find the rocks that Darwin had sampled, in particular evidence of trachyte.</p>	
IUGS E-Bulletin 203, February – March 2024	Eugenija Rudnickaitė	Ignotas Horodeckis (1776–1824): <i>Meteorite Studies by a Lithuanian Mineralogist</i>
	<p>Ignotas Horodeckis (1776–1824) was born in 1776 in Lithuania, became full professor and taught geology and mineralogy at the University of Vilnius. He connected theory with practice in nature and was especially interested in the latest theories about meteorites and taught them to his students. He was also in correspondence with international scientists and sent samples of meteorites to Alexandre Brongniart in France.</p>	
IUGS E-Bulletin 204, April 2024	Ana Carneiro, Ana Simões, Maria Paula Diogo	Correia da Serra (1751–1823): “ <i>Journal d’une Course en Avril 1774</i> ”. <i>The Art of Observing and Describing</i>
	<p>On Monday, 4 April 1774, the Portuguese naturalist José Francisco Correia da Serra left Rome, accompanied by the Belgian physician, Jean Demeste (1743–1783). They travelled along the Ligurian coast and Correia da Serra recorded daily observations, reflections, and critical comments in a 28-page manuscript written in French, to which a two-page Index was appended. This comprised three sections, <i>Mineralia</i>, <i>Vegetabilia</i> and <i>Animalia</i>.</p>	
IUGS E-Bulletin 205, May 2024	Khallaf El Ghalbi	<i>Emerald Mines in Upper Egypt in the Islamic Period (until the 14th Century): A Neglected Era in Modern History of Mining</i>

INHIGEO PUBLICATIONS & ACTIVITIES (2024)

	<p>Various heritage sources confirm that mines were widespread in all parts of the Islamic world, however, many contemporary studies focused on emerald mining history, ignore the Arab-Islamic experience in this field. Study of historical writings related to mining in Upper Egypt up until the 14th century demonstrates the level of knowledge in mining management and shows an awareness with regard to the worldwide sources of emerald as well as the mining expertise known in their times.</p>	
IUGS E-Bulletin 206, June 2024	Carol Bacon	Charles Gould, the First Government Appointed Geological Surveyor of Tasmania
	<p>At 25 years old, Charles Gould was appointed geological surveyor of Tasmania on recommendation of Sir Roderick Murchison (1792–1871). He travelled extensively throughout Tasmania, reaching many places that are still only accessible to the determined bushwalker. Gould correctly established the stratigraphic sequence of Ordovician to Lower Devonian rocks over much of Tasmania and established that there were two series of coal measures separated by a marine sequence. He interests were varied, including an insatiable curiosity regarding mythological creatures.</p>	
IUGS E-Bulletin 207, July 2024	Martina Kölbl-Ebert	Karl Caesar von Leonhard Introduced the Term “Loess”
	<p>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.</p>	
IUGS E-Bulletin 208, August 2024	Philippe Le Vigouroux	A European Support to Continental Drift: Emile Argand and His “Tectonics of Asia”
	<p>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).</p>	
IUGS E-Bulletin 209, September 2024	Beatriz Aguirre-Urreta	National Academy of Exact, Physical and Natural Sciences of Argentina

	<p>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.</p>	
IUGS E-Bulletin 210, October 2024	Ezio Vaccari	Giovanni Arduino and his Saggio Fisico-Mineralogico (1774)
	<p>Giovanni Arduino (1714–1795) was a leading figure in the Italian scientific community in the second half of the 18th century. His interest in the study of the Earth's strata and in the interpretation of different kinds of rocks grew together with his advanced experience in mining and as he carried out geological research and fieldwork mainly in the Venetian Prealps.</p>	
IUGS E-Bulletin 211, November 2024	Alexis Plunder, Gaston Godard	Metamorphic Facies: The Birth of a Concept
	<p>Born in Finland in 1883 Pentti Eelis Eskola described the parageneses (i.e., the mineral equilibrium assemblages in a rock) of the metamorphic rocks from the Orijärvi region (Finland) as being ruled by simple laws related to the bulk rock chemistry (Eskola, 1914). His findings would lead to a new concept – Metamorphic Facies.</p>	
IUGS E-Bulletin 212, December 2024	Renee M. Clary	Florence Bascom (1862-1945): first elected woman officer of the Geological Society of America
	<p>Florence Bascom (1862–1945) made her greatest impact in geology with the education of the next generation of US women geologists. However, her academic career at Bryn Mawr College was insufficient for her professional satisfaction, and Bascom sought opportunities within professional societies and scientific agencies.</p>	

INHIGEO Webinars

New Perspectives in the History of Earth Sciences

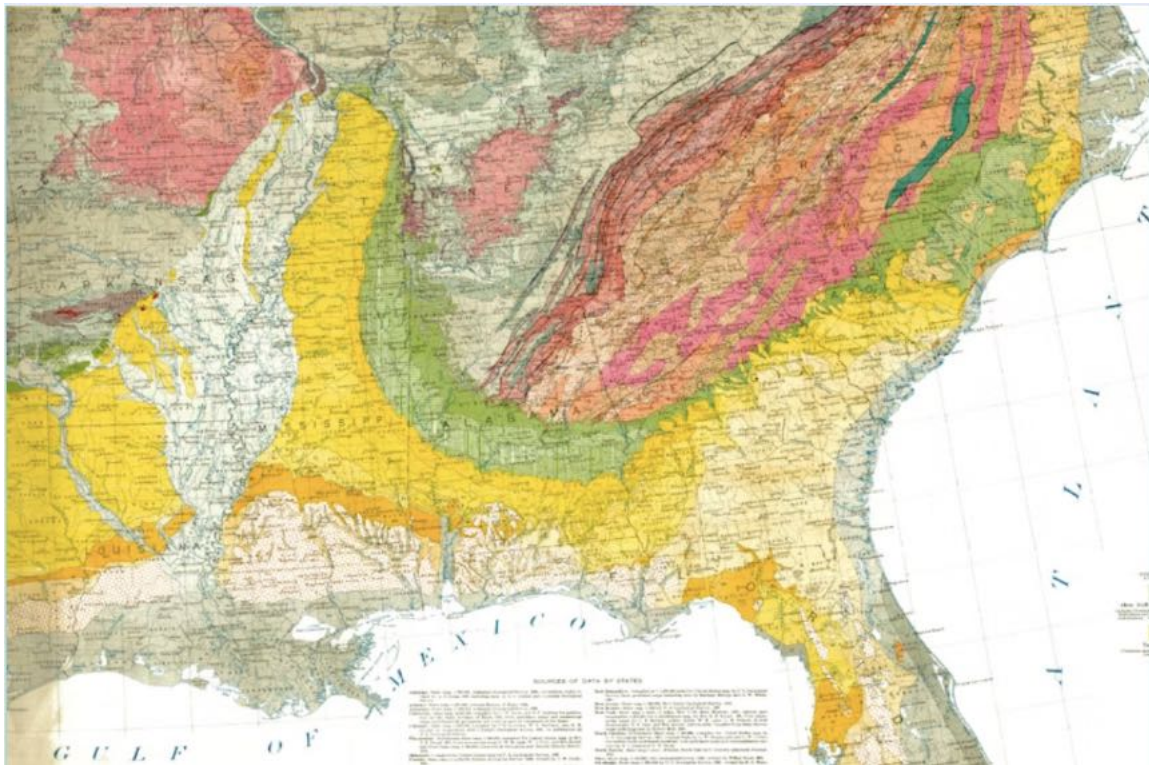
Fourth meeting

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

27 September 2024 – 16:00-17:30 (CET)

Guest Speaker

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



New Perspectives in the History of Earth Sciences
Fifth meeting

**THE ART OF THE CARBONIFEROUS PERIOD IN THE TIMES OF
DECARBONIZATION: A SHORT INTRODUCTION**

22 November 2024, 4:00-5:30 p.m.

Organised by Victor Monnin and Maddalena Napolitani.

Guest speakers:

Marta Tomczok– University of Silesia, Katowice, Poland

Pawel Tomczok– University of Silesia, Katowice, Poland



Ludwik Holesz, *When the Coal was Green*

INHIGEO Archive

At the request of the Board, an INHIGEO archive has been established at the History of Science Collections of the University of Oklahoma Libraries.

In addition to serving as a permanent repository of resources on the INHIGEO website, the archive seeks to preserve the following materials:

- Photographs of members, events, documents. Original print photographs. Digital photos in high resolution.
- INHIGEO Symposia and conference flyers, programs, printed materials.
- Field guides and excursion guides, many of which contain materials under copyright that cannot be digitized in their entirety and made fully available online.
- Select Commission organizational records, print and digital. Any founding documents or records; meeting minutes; personal notes from conference events or field trips; other ephemera.
- Audio and video recordings on legacy media, as well as all forms of digital media on any device or born digital.
- Presentations made at INHIGEO events.

Do you have INHIGEO materials that should be preserved for the future? Send them to: INHIGEO Archive, History of Science Collections, University of Oklahoma Libraries, 401 W. Brooks, BL 521, Norman, OK 73019, USA. Email inquiries to Kerry Magruder (kvmagruder@gmail.com). Assistance is available for shipping.

Related materials are also being preserved in separate archives for the *History of the Earth Sciences Society* and for the *History, Philosophy, and Geoheritage Division* of the Geological Society of America, as well as archives for Kenneth L. Taylor, Hugh S. Torrens, Martin J. S. Rudwick, Léo F. Laporte, and Kennard B. Bork.

5. RESEARCH NOTICES

In this section researchers announce projects that may be of interest to other members. Each notice includes contact information and an explanation of the kinds of information, collaboration, inquiries, or input that may be welcomed. Examples are calls for papers, doctoral student dissertation topics, projects newly funded, collaborative projects open to new co-investigators, or calls for information related to individual or institutional projects. Send new Research Notices to the Secretary General (m.koelbl@lmu.de) and to the Editor (kvmagruder@gmail.com). Indicate whether you would like your research notice to appear in a quarterly circular, the next Annual Record, or both.

Call for Papers: History of Women in Science

DHST: Protecting Science in Times of Crisis

DHST Workshops for Early Career Scholars

Video on Dixie Lee Bryant, palaeobotanist

Call for Papers: History of Women in Science

Publication of a collection of papers arising from the INHIGEO sponsored session held at the 37th IGC in Busan (Korea) in August 2024 is being planned within the series Geological Society of London. Special Publication.

Title: *History of Women in the Geological Sciences: trailblazers, leaders and those in the shadows*

Abstract: Since the 18th century women have been pioneers in a broad spectrum of geoscience disciplines, however, their achievements have not always been recognized. In this INHIGEO sponsored session we wish to highlight their important roles over three centuries and welcome presentations on the history of the trailblazers, those who excelled in research; the leaders, i.e. those who held important positions such as in the IUGS, IGCP, national surveys, industry, museums, academic chairs in geology etc., and in particular those in the shadows, their contributions often unacknowledged or even forgotten, the women who, e.g., worked alongside their male colleagues as assistants or flanked their husbands' research as illustrators and in preparation of specimens. By reconstructing their history, their roles and the obstacles they encountered within the development of the geological sciences across a broad geographical, social and time context we may provide lessons for the future and role models for the geoscientists of the 21st century.

Guest Editors: Kathleen HISTON and Martina KOELBL-EBERT

Additional contributions on the topic are welcome – please send expressions of interest to Kathleen (hiscatnautiloid@gmail.com) and Martina (m.koelbl@lmu.de).

DHST: Protecting Science in Times of Crisis

From the June 2024 Circular, regarding the Division of History of Science and Technology (DHST) of the International Union of History and Philosophy of Science and Technology (IUHPST).

To the officers of DHST Commissions and Sections

Dear Colleagues,

I would like to bring to your attention an important recent publication of the International Science Council (ISC), to which the DHST is affiliated through our parent organization, the International Union of History and Philosophy of Science and Technology. Titled “Protecting Science in Times of Crisis,” the working paper addresses the plight of scholars caught in the middle of the many ongoing conflicts and wars ravaging across the world. It can be accessed on this link: <https://council.science/publications/protecting-science-in-times-of-crisis/>

Woefully, it is very likely that members of the communities represented by the Commissions and Sections that you lead may be under threat right now, or have been forcibly displaced, or have lost access to archives and livelihoods, among many other dire situations. If you think the DHST Council can help in any way, please let us know. Also, if you have ideas about ways in which our 2025 New Zealand congress could get involved, don't hesitate to reach out.

Sincerely, Thomas Haddad, Assistant Secretary General DHST

DHST Workshops for Early Career Scholars

From the December 2024 Circular

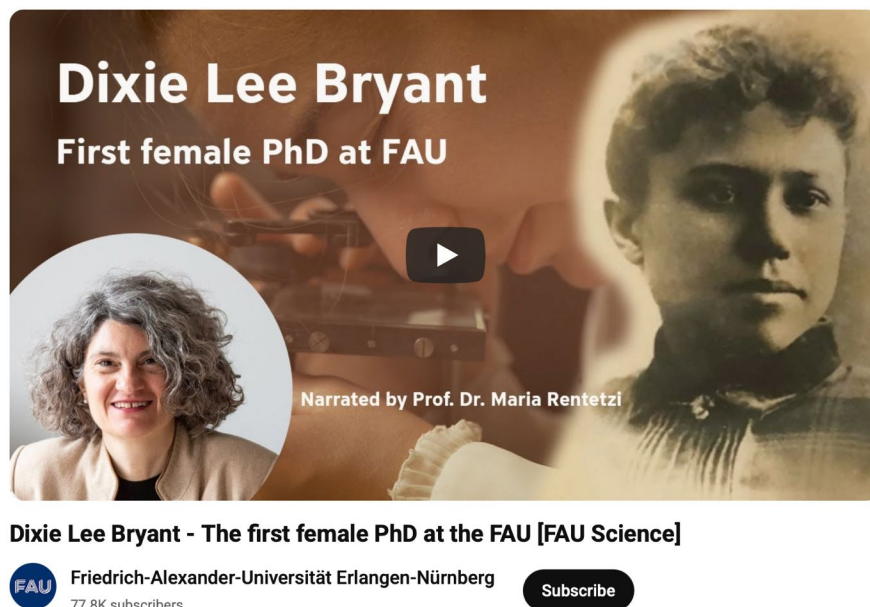
In 2025, the DHST will offer a series of free online workshops to foster the worldwide integration and inclusion of early career scholars. Organized by Barbara Hof (DHST Commission on Science, Technology and Diplomacy) and Climério da Silva Neto (Inter-Union Commission on the History and Philosophy of Physics), the workshops will address topics that often fall short in university programs but are of general interest and importance. Participants are encouraged to engage in critical reflection on academic practices and the profession itself, based on input by an internationally diverse cohort of scholars. Some sessions are designed to generate advanced knowledge of work environments in academia, some provide a behind-the-scenes look at the publication process, while others delve into specialized methods. Each session will be held on a Thursday in the first half of 2025 and will last for 1.5 hours. Please help us spread the word forwarding this message to members of your commissions and sections, particularly early career scholars. You can find more information here: <https://dhstweb.org/archives/1251>

Best wishes, Thomas Haddad, Assistant Secretary General DHST

Video on Dixie Lee Bryant, palaeobotanist

From the June 2024 Circular

Friedrich-August-University Erlangen, Germany (FAU), has now released a brief video in commemoration of Dixie Lee Bryant, the first woman to complete a doctoral degree at FAU, on the occasion of the International Day of Women and Girls in Science on February 11, 2024. The Massachusetts Institute of Technology (MIT) named a lecture hall after Dixie Lee Bryant. Here in Germany, hardly anyone knows her name. And yet she could be a real inspiration for young women in science.



Link to the video: <https://youtu.be/VehluPtWHSE>

Dixie Lee Bryant, the daughter of a businessman from Kentucky, USA, studied at MIT before becoming the first woman to receive a doctoral degree at FAU in 1904. She left everything behind in the States to pursue her academic career, coming to Germany and enrolling at FAU for physics, geology and botanics.

Before the Bavarian Prince Regent Luitpold passed a decree in 1903 allowing women to enroll at Bavarian universities, they were only allowed to attend as guests. However, Dixie Lee Bryant managed to obtain a place in the young team of researchers led by the renowned geologist Hans Lenk, paving the way towards her doctoral degree. She wrote her doctoral thesis on the petrography of Spitzbergen.

When she returned to the North Carolina State Normal Industrial School with a doctoral degree in geology, she was the only member of faculty with a doctoral degree. However, at that time, it was still not possible for her to pursue a career in science. Instead, she taught for many years at secondary schools in Chicago before returning to North Carolina in her later years.

Text of FAU press release: “Dixie Lee Bryant was an impressive young woman, who pursued her goal of an academic career with determination. At that time, she was not permitted to enroll at any university in the Southern states of the USA. She completed her Bachelor’s degree later at MIT. She deserves to be admired for the remarkable step of undertaking an arduous journey across the Atlantic, where she gained the respect of her male colleagues. We are proud that this brave woman gained her doctoral degree from FAU,” states FAU President Joachim Hornegger. “FAU has suggested to the City of Erlangen that a street should be named after Dixie Lee Bryant.”

6. EARLY CAREER RESEARCH PROFILES

This profile series on young members of INHIGEO reproduces profiles that first appeared in the Quarterly Circulars distributed by the Secretary General. It creates a space where early career scholars may present their studies and research interests within the history of the geological sciences to the whole membership, in order to highlight their field of expertise. It is hoped this will lead to contacts and collaborations for the future through INHIGEO's extensive network.

Mariana Ferrari Waligora

Jeremy R. Schneider

Maria Faccioli

Jingfei Zhang

March 2024 Circular: Mariana Ferrari Waligora

Currently: Ph.D. candidate in History of Science: Faculty of Natural Sciences and Museum, at the Universidad Nacional de La Plata, Argentina.

Degrees: M.Sc. in Microbiology and Biochemistry, 2016: Faculty of Biology and Psychology, at the Georg-August-Universität Göttingen, Germany.

Dissertation title: “Museums and Scientific Exchanges in the Global South. The Fossil Genus *Glossopteris* and the Continental Drift Theory, 1915-1940”

Project description: The general aim of this project consisted in tracking back the exchanges conducted during the end of the 19th and beginning of the 20th century, between different museums and southern hemisphere geologists/palaeontologists interested in proving the ancient existence of the southern Pan-continent Gondwanaland. The focus was on the circulation of the fossil specimens of the botanical genus *Glossopteris*. This was found in Paleozoic strata of all the southern hemisphere continents and India and was one of the main pieces of evidence for the ancient connection of these continents. The research showed the shifting of meanings linked to this fossil type in time, from its description, associated with the search of coal in India and the southern continents, its significance for the concept of Gondwanaland, following up to its importance as proof of the continental drift theory in the first half of the 20th century.

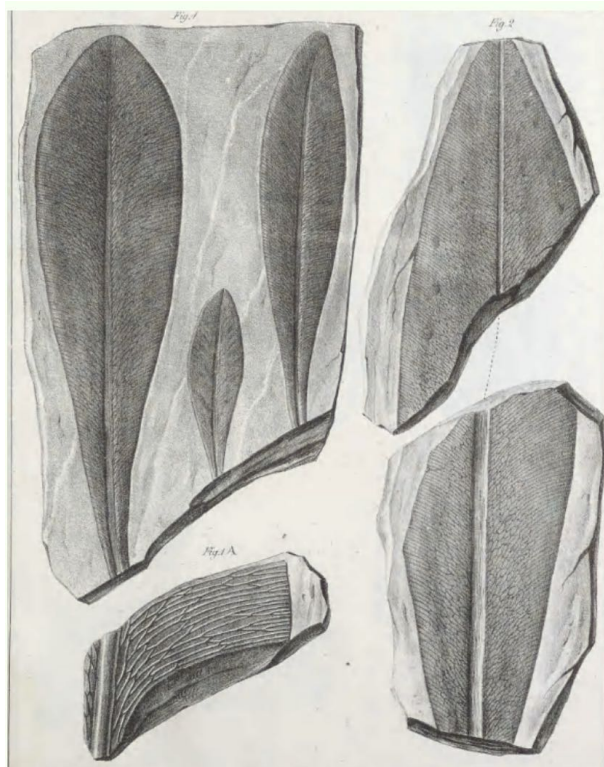


In South America, *Glossopteris* was found mostly in southern Brazil and Argentina, and these strata were closely correlated especially with South African strata. Thus, greater attention was paid to the studies of *Glossopteris* in these countries. In Argentina, the focus was mainly on the reevaluation of the documental heritage from the Italian geologist and physician Joaquín Frenguelli (1883-1958), who had an important career in this country in the first half of the 20th century. He had an invaluable role in the development of the sciences, in different fields, such as Geology, Geomorphology, Palaeontology, Zoology, Botany, Anthropology and Protozoology, and also had an active role in supporting the continental drift theory. In his studies about the Argentinian phytogeography, he presented the vegetation as an inseparable part of the geological structures. His observations, networks and paleobotanical collections were essential to a synthesis of the stratigraphy of the continental Superior Paleozoic.

Figure: Schematic drawing of fossilized *Glossopteris* leaves, as described by the French Adolphe Brongniart in 1828, from specimens collected in India and Australia. Source: Brongniart, A.T.

(1828). *Histoire des Végétaux Fossiles, ou Recherches Botaniques et Géologiques. Sur les Végétaux Renfermés dans les Diverses Couches du Globe. Tome Premier.* Paris: G. Dufour et Ed. D'Ocagne.

Research interests: My research is oriented to the history of the collections of the museums of natural history and the Earth sciences. The collaboration between different regions of the world, each one with a particular access to the local evidence of the planet's history, allows the articulation of the local and global scales, a theme of particular interest in respect to the history of scientific cooperation. Therefore, these exchanges represent the material footprint of how the theories are “thought” from objects and itineraries that are conditioned by the communication and the transportation of data and artefacts. The scientific exchanges of these objects and its contextualization also provide information on the relations between the actors and the interests involved.



Publications:

- Waligora, M. F. ‘Gondwana Coal and the *Glossopteris* in Brazil’. In: Bashford, A., Chakrabarti, P., Hore, J. (editors). *Gondwana/Land: Deep Time, Modern History, Southern Earth*. The University of Chicago Press. In press.
- Waligora, M. F. The South Does Also Exist: The Continental Drift Debate in the Account of the South-African Paleobotanist Edna Plumstead. *Earth Sciences History*: 1-23. Forthcoming.
- Waligora M. F. (2020). Researchers following the *Glossopteris* trail: social context of the debate surrounding the continental drift theory in Argentina in the early 20th century. *Colligo*, 3(3). <http://revue-colligo.fr/index.php/vol-3-num-3/2-uncategorised/45-203305>

Contact: Mariana Ferrari Waligora, Rua Bijari 138, 05579-040, São Paulo-SP, Brazil.

Email: marifwal@gmail.com

June 2024 Circular: Jeremy R. Schneider

Studies:

- 2023: Ph.D. in History of Science, Princeton University, USA.
- 2019: M.A. in History of Science, Princeton University, USA.
- 2016: M.A. in Philosophy, Ludwig Maximilian University of Munich, Germany.
- 2013: B.A. in History, Ludwig Maximilian University of Munich, Germany.

Currently: Junior Research Fellow (History and Philosophy of Science), Trinity College, Cambridge.
Beginning 2025: Assistant Professor of History, Cornell University, (tenure track).



Prizes:

- 2024: Caspar Friedrich Wolff Medal in History of Biology.
- 2023: Ronald Rainger Prize in History of Earth and Environmental Sciences.
- 2022: Mary and Randall Hack '69 Award for Water and the Environment.
- 2017: Trevor Levere Best Paper Prize.

Dissertation title: “Reawakening the Ammonites: A History of the Lost World.”

Abstract: According to most historians of the earth sciences, the idea of extinction was born when the French anatomist Georges Cuvier reconstructed a variety of lost megafauna from fragmented fossil bones in his *Ossemens fossiles* (1812). Contrary to this origin myth, my Ph.D. thesis unearthed a longer, more exacting genealogy of this crucial concept, thereby challenging the widely held assumption that awareness of extinction is unique to the modern science of life. Drawing on literary, visual, and material evidence that spans the domains of science, theology, poetry, and art, the thesis recovered how “lost species”—French *espèces perdues*, German *verlorene Arten*—were already conceived in the sixteenth to eighteenth centuries. This project retells narratives of extinction through ammonites—the fossilized shells of extinct marine creatures—and how these came to widely symbolize the extinction of species in the pre-modern period. It provides the first book-length study of how the lost world came into being several centuries before Victorian geologists turned dinosaurs into a global fascination.

Research interests: I am broadly interested in the history of the earth sciences from antiquity into the nineteenth century. My specialism lies in the early investigation of fossils in the early modern period (ca. 1500 – 1800) and the many controversies that surrounded their interpretation and cultural significance. The following themes weave their way through my work in this time

period: sacred histories of the earth and deep time; natural history and natural philosophy; conservation, biodiversity, and extinction; environmental history of science; scientific images and visual practice; artisanal epistemology and vernacular science; humanism and ancient ideas of the earth.



Figure: Extinct ammonites – Robert Hooke’s drawings of the fossils with sketches of their suture lines and apertures, 17th century (© The British Library).

Publications (selected):

- “Hunted to Extinction: Finding Lost Species in the World of Bernard Palissy (1510–89).” Forthcoming in *Renaissance Quarterly* 77, 2 (2024). Awarded the 2023 Ronald Rainger Prize.
- “The First Mite: Insect Genealogy in Hooke’s *Micrographia*.” *Annals of Science* 75, 3 (2018): 165–200. Awarded the 2017 Trevor Levere Prize.

Contact: currently Trinity College, Cambridge CB2 1TQ, United Kingdom.

Email: js2897@cam.ac.uk

September 2024 Circular: Maria Faccioli

Degrees:

- 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



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

Abstract: Marco Carburi 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 Carburi 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 Carburi 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.

Figure: Balthasar Rösler, *Speculum metallurgiae politissimum, oder: Hell-polierter 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 Carburì 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.

December 2024 Circular: Jingfei Zhang

Degrees:

- 2022: PhD, History of Science, University of Chinese Academy of Sciences, Beijing, China.
- 2011: Master of Science, Solid Geophysics, The Institute of Crustal Dynamics, China Earthquake Administration, Beijing, China.
- 2008: Bachelor of Geological Engineering, Central South University, Changsha, China.

Positions:

- Currently: Assistant Professor, Institute for the History of Natural Sciences, Chinese Academy of Sciences, Beijing, China (since August 2024).
- 2022-2024: Postdoctoral Researcher, Department of History of Science, Technology and Medicine, Peking University, Beijing, China.
- 2011-2019: Book Editor, Science Press, Beijing, China



Dissertation title: Research on China-U.S. Exchanges and Cooperation in Earthquake Science and Technology during the 1970s and 1980s.

Abstract: Jingfei Zhang's doctoral research examines the interplay between scientific and diplomatic relations through a science diplomacy framework, utilizing case studies of the exchanges and collaborations in earthquake science between China and the United States. It particularly focuses on the endeavors of seismologists to challenge unfavorable diplomatic circumstances, driven by their urgent need for the exchanges of scientific data, instruments, and ideas during the 1970s and 1980s.

Research interests:

He is interested in the history of Earth sciences, the localization of geology in the 20th-century China, and particularly science diplomacy in Earth sciences during the Cold War.



Photo: Frank Press, American seismologist, science adviser to President Jimmy Carter, meeting with Vice Premier Deng Xiaoping in Beijing, July 1978, just before the normalization of China-U.S. diplomatic relations.

Publications:

- Jingfei Zhang, Jiuchen Zhang. 2022. Problem driving: The “landing” of the plate tectonics theory and the response from Chinese academia. *Journal of Dialectics of Nature*, 44(1): 49-56.
- (In Chinese) Jingfei Zhang. 2021. “Leaving some wiggle room” and “pursuing cooperation”: China-U.S. scientific and technological exchanges in earthquake from 1971 to 1979. *Studies in the History of Natural Sciences*, 40(1): 77-90. (In Chinese)
- Jiuchen Zhang, Jingfei Zhang. 2021. The Qinghai-Tibet plateau: Pilot site for international collaboration in geoscience during China’s early period of reform and opening-up. *Notes and Records: The Royal Society journal of the history of science*, 75(1): 91-109.

Contact: Address: Institute for the History of Natural Sciences, Chinese Academy of Sciences, No. 55, Zhongguancun East Road, Haidian District, Beijing, China.

E-mail: zhangjingfei@ihns.ac.cn

7. AWARDS (2024)

This section lists awards given in the history of geology in 2024. This list is not limited to INHIGEO or INHIGEO members. Send notices of awards given or received to the Secretary General (m.koelbl@lmu.de) and Editor (kvmagruder@gmail.com).

Society	Award	Recipient
INHIGEO	Early Career Award	Lucero Morelos-Rodriguez
INHIGEO	V.V. Tikhomirov History of Geology Award	Kenneth L. Taylor
Geological Society of London	Sue Tyler Friedman Medal	Martina Kölbl-Ebert
Geological Society of America, History and Philosophy of Geology Division	Mary C. Rabbitt Award	Silvia Figueirôa
The French Committee for the History of Geology (Cofrhigéo)	François Ellenberger Prize	Philippe Taquet

INHIGEO Early Career Award: Lucero Morelos-Rodriguez



Left to right: Martina Kölbl-Ebert, Ezio Vaccari, Lucero Morelos-Rodriguez.

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 28th 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 49th INHIGEO Symposium held together with the 37th IGC in Busan (South Korea), August 25–31, 2024.

Vladimir V. Tikhomirov History of Geology Award: Kenneth L. Taylor

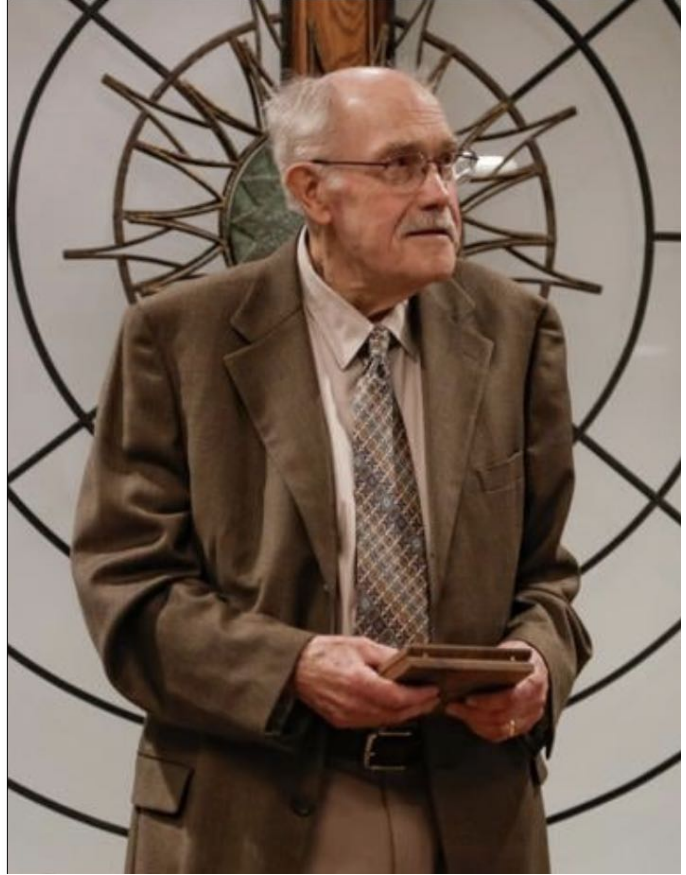
Kenneth L. Taylor (INHIGEO honorary member for the USA) was announced at the INHIGEO business in Busan as the recipient of the INHIGEO Vladimir V. Tikhomirov History of Geology Award for 2024 in recognition of his outstanding original contributions and achievements that mark a major advance and contribution 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 18th 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 a discussion: “Tikhomirov Award Roundtable: A Fascination for Geology’s Past— Three Historians Reflect on their Work.” The three participants were all past presidents of INHIGEO: 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.

See the “Armenia” heading in Section 10, Country Reports, for additional information on the medal of the Vladimir V. Tikhomirov History of Geology Award 2024.

Following pages: Photos from the September 18th, 2024 event in Norman, Oklahoma, hosted by the University of Oklahoma History of Science Collections, for the presentation to Ken Taylor of the Tikhomirov Award.



AWARDS (2024)



Tikhomirov Award Roundtable, moderated by Kerry Magruder.



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



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.

Sue Tyler Friedman Medal: Martina Kölbl-Ebert

From the June 2024 Circular

On 12 June 2024, Martina Kölbl-Ebert, INHIGEO Secretary General, was awarded the Sue Tyler Friedman Medal by the Geological Society of London for her contribution to the History of Geology.



Photo: Martina Kölbl-Ebert and Ruth Allington, President of the Geological Society, at the award ceremony.

The Sue Tyler Friedman Medal is for distinguished contributions to History of Geoscience and is not confined to those with a geoscience background or to Fellows of the Society. It is awarded to an individual of any nationality.

See <https://www.geolsoc.org.uk/About/awards-grants-and-bursaries/society-awards/2024-winners>.

Mary C. Rabbitt Award: Silvia Figueirôa

INHIGEO member Silvia Fernanda de Mendonça Figueirôa (University of Campinas-UNICAMP, São Paulo, Brazil) received the 2024 Mary C. Rabbitt Award, presented at the annual meeting held in Anaheim, California, 22–25 September 2024. The Mary C. Rabbitt Award is the highest honor given for lifetime achievement in the history of geology by the History and Philosophy of Geology Division (HPGD) of the Geological Society of America (GSA). The Award is presented to an individual for exceptional scholarly contributions of fundamental importance to our understanding of the history of the geological sciences. Candidates are from a worldwide pool. See: <https://community.geosociety.org/histphildiv/awards/rabbitt>



Photo: Silvia Figueirôa receiving the Mary C. Rabbitt History and Philosophy of Geology Annual Award from Division Chair Patricia Coorough Burke at the 2024 GSA meeting held in Anaheim, California (USA).

François Ellenberger Prize: Philippe Taquet

The French Committee for the History of Geology (Cofrhigéo) is honoured to inform you that, for the year 2024, the Cofrhigéo Board of Directors awarded the F. Ellenberger prize to Philippe Taquet, in recognition of the important contributions he has made to the history of geology over the last four decades. The award, in the form of a commemorative medal, was presented to him at the Cofrhigéo meeting held on December 11 at the Société Géologique de France.



A specialist of dinosaurs, Philippe Taquet spent his entire career in Paris at the Muséum National d'Histoire Naturelle, first as a CNRS research fellow, then as a professor of paleontology from 1981, and director from 1985 to 1990. The importance of his contribution to the history of geology is attested by more than eighty publications. These have particularly concerned Georges Cuvier (1769-1832), one of the founders of comparative anatomy and vertebrate paleontology, to whom he has dedicated two books, *Georges Cuvier, Naissance d'un génie* (Odile Jacob, 2006) and *Georges Cuvier, Anatomie d'un naturaliste* (Odile Jacob, 2019). His publications have also dealt with the work of 19th and 20th century scientists such as Alcide d'Orbigny, William Buckland and Théodore Monod, and various episodes illustrating how geology came into being.

Philippe Taquet has also been a very active member of the community of historians of geology: from 2004 to 2008, he was President of the International Commission for the History of Geology (INHIGEO) and, from 2016 to 2022, of our Committee, of which he has been a member ever since its founding in 1976. His work has earned him numerous distinctions, including the Prix Fontannes from the Société Géologique de France, the Sue Tyler Friedman Medal from the Geological Society of London, and an election to the Académie des Sciences, which he chaired in 2013-2014.

A list of Philippe Taquet's publications on the history of Earth sciences is available on the Cofrhigéo website (<https://hal.science/COFRHIGEO/page/prixfrancoisellenberger>).

With our best regards,
The Board of Directors of Cofrhigéo

Note: An obituary for Philippe Taquet (25 April 1940 – 16 November 2025) will appear in the next Annual Record, covering the year 2025.

8. OBITUARIES (2024)

Please send obituary notices to the Secretary General (m.koelbl@lmu.de) and Editor (kvmagruder@gmail.com).

Gabriel Gohau (1934–2023)

Jacques Touret (1936–2024)

Davis Alan Young (1941–2024)

Notice: Yuri Yakovlevich Soloviev (1931–2023), INHIGEO member from Moscow, passed away on 24 December 2023. An obituary will be forthcoming in a future issue.

Gabriel Gohau (1934–2023)

From the March 2024 Circular



We have received from the French Committee for the History of Geology (COFRHIGEO) the very sad news of the death of Gabriel Gohau, INHIGEO Honorary Senior Member and former President of COFRHIGEO, which occurred on December 21, 2023 in Courbevoie, near Paris.

See the Obituary published on the COFRHIGEO website: <https://hal.science/COFRHIGEO/page/communiquedisparitiondegabrielgohau19342023>. The following is an English translation and adaptation.

Born in Nantes in 1934, he studied at the Lycée Chaptal in Paris in 1954 and then joined the École Normale Supérieure de Saint-Cloud in 1955. He followed the courses by Léon Lutaud and Jacques Bourcart, who directed his work in the field, carried out with Jean Veslin on the tectonics of the Vence region (Alpes-Maritimes). He obtained the degree (*agrégation*) in

Natural Sciences in 1959 and he was appointed to the Lycée Janson de Sailly in Paris, where he taught until his retirement in 1995.

Alongside a teaching career, Gabriel Gohau engaged in work in didactics of sciences, biology and geology, since the 1960s. He published natural science textbooks for secondary education and several works on science didactics, particularly in the journal *Aster* from the 1980s, as he was interested in various aspects of the teaching of natural sciences, such as the rediscovery of forgotten subjects, as well as epistemological and didactic problems.

At the beginning of the 1970s, he discovered the writings of Gaston Bachelard and attended the lectures by the philosopher of sciences Georges Canguilhem. Gohau achieved a philosophical education through the French school of historical epistemology: “a school characterized by the study of epistemological obstacles which produce intellectual discontinuities separated by periods of stasis or equilibrium”, as he explained in his speech accepting the Mary Rabbitt History and Philosophy of Geology Award in 2010. Indeed, in France, in addition to scientists themselves and professional historians, “philosophers play an important role” in the history of science, he added. Following Canguilhem’s suggestion, at the end of the 1970s Gohau worked under the direction of François Dagoguet to a dissertation for the State Doctorate (*Doctorat*

OBITUARIES

d'État), which was completed and discussed in 1982, with the title “Ancient ideas on the formation of mountains: prehistory of tectonics.”

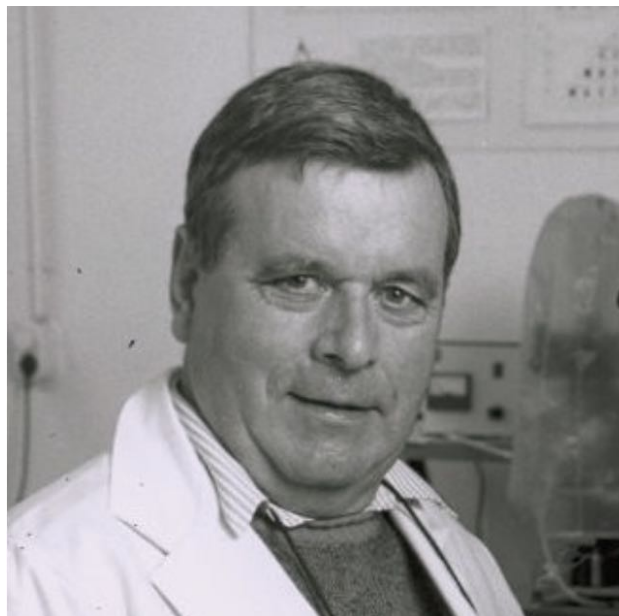
In 1976 Gohau was one of the founding members, together with François Ellenberger and a few others, of the French Committee for the History of Geology (Cofrhigéo). Later, in 1996, he was President of COFRHIGEO until 2016.

Gabriel Gohau has published numerous papers on the history of geology and biology, notably in the journals *Travaux du Cofrhigéo*, *Revue d'Histoire des Sciences*, and *Cahiers François Viète*. He is the author of books and book chapters, some of which have been published in several editions and were translated into English. Among his publications, we recall in particular the following ones: *Les fossiles: naissance et formation d'une idée scientifique* (1966, 2010); *Buffon. Des époques de la nature* (1971, 1998); *Biologie et biologistes* (1978); *Idées anciennes sur la formation des chaînes de montagnes* (1983); *Histoire de la géologie* (1987); *L'Enseignement des sciences et la formation du jugement* (1987); *Les sciences de la terre aux XVIIe et XVIIIe siècles: naissance de la géologie* (1990); *Une histoire de la géologie* (1990); *A history of geology* (1991); *Histoire des sciences de la vie* (with Pascal Duris 1997, 2011); *Naissance de la géologie historique: la Terre "des théories" à l'histoire* (2003); *Jules Verne: De la science à l'imaginaire* (with Philippe de La Cotardière, Jean-Paul Dekiss, Michel Crozon and Alexandre Tarrieu, 2005; awarded with the Roberval prize); *Lamarck, philosophe de la nature* (with Pietro Corsi, Jean Gayon and Stéphane Tirard, 2006, 2015); *Histoire de la tectonique: des spéculations sur les montagnes à la tectonique des plaques* (2010).

In 1994, the Geological Society of France awarded him the Eugène Wegmann Prize “for work relating to the history of geology”. In 2010, he also received the Mary Rabbitt History and Philosophy of Geology Award of the Geological Society of America.

Jacques Touret (1936–2024)

We have received from Lydie Touret and from the French Committee for the History of Geology (COFRHIGEO) the very sad news of the death of Jacques Touret, which occurred on March 11, 2024 in Paris. Our deepest condolences to our colleague and INHIGEO member Lydie Touret on the loss of her husband.



Jacques Touret was INHIGEO Ordinary Member for France and member of the COFRHIGEO Board. Born in Fumay (France) in 1936, after studies and a doctorate at the University of Nancy, became professor at the universities of Nancy and Paris 7 from 1969 to 1980, then professor of mineralogy, petrology and metallogeny at the Vrije Universiteit in Amsterdam, from 1980 to his retirement in 2001. His scientific research focused in particular on very high-pressure metamorphism (granulite facies) with the study of fluid inclusions present in these rocks. He was a member of the Academies of Sciences of the Netherlands and Norway, and of the Academia Europea. He also received an honorary doctorate from the University of Liège, the André Dumont medal from the Geological Society of Belgium “Geologica Belgica” (1992) and the “Van Waterschoot van der Gracht” medal of the Royal Netherlands Geological and Mining Society (1996). He was also a member of the Editorial Board of the journal *Contributions to Mineralogy and Petrology*. Since his retirement, his work has mainly focused on the history of geology, particularly on the beginnings of microscopic petrography in the 19th century. He published various papers in the *Travaux du Cofrhigéo* and presented several talks in the field of the history of mineralogy and petrography, together with studies on mining schools and on Élie de Beaumont, Béguyer de Chancourtois, Michel-Lévy and others. In 2023 the French Committee for the History of Geology (COFRHIGEO) awarded Jacques Touret, together with his wife Lydie, as the first winner of the “François Ellenberger Prize”, for his contributions to the history of the geological sciences.

English translation and adaptation from the Obituary published in the COFRHIGEO website: <https://hal.science/COFRHIGEO/page/jacques-touret-1936-2024>.

Note: Salomon Bernard Kroonenberg delivered an obituary lecture in Paris about his predecessor Jacques Touret on December 11, 2024 for the French section of INHIGEO. See video (in English): <https://www.youtube.com/watch?v=0NZ3LkYp31c>

Davis Alan Young (1941–2024)

INHIGEO member Davis Alan Young, age 83, of Grand Rapids, Michigan (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 modeled 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>

Books (select):

- *Christianity and the Age of the Earth* (Artisan Publishing, 1988).
- *The Biblical Flood: A Case Study of the Church's Response to Extrabiblical Evidence* (Grand Rapids: Eerdmans, 1995).
- *Mind over Magma: The Story of Igneous Petrology* (Princeton: Princeton University Press, 2003).
- *The Bible, Rocks and Time: Geological Evidence for the Age of the Earth* (Downers Grove: IVP Academic, 2008).

9. ARTICLES

Short-form articles by INHIGEO members or representing INHIGEO-sponsored activities may be published in this section.

Salomon Kroonenberg, “Jacques Touret (1936-2024), Hermann Vogelsang and fluid inclusions.”

Jacques Touret (1936-2024), Hermann Vogelsang and fluid inclusions

By Salomon Kroonenberg.

Text spoken at the 145th Scientific Reunion of COFRHIGEO, December 11, 2024,
Maison de la Géologie, 77, Rue Claude Bernard, Paris.



Lydie and Jacques Touret, INHIGEO conference,
Les Eyzies, France, 18 September 2022.

Jacques Touret. Wonderful man. I admired him, full of laughter, joyful, full of passion for science and for his students, but why I am standing here to pay a tribute to him? Why did he pick *me* to be his successor as representative of the Netherlands in INHIGEO? I wasn't his student, nor his colleague; when I was working for my PhD on granulites in Suriname he invited me to look at the fluid inclusions, but I didn't, my contract was finishing and I had no job. Later in my career I worked on Grenvillian granulites in the Colombian Andes. In Rodinia times, one billion years ago, they were lying close to his beloved Rogaland. But still no fluid inclusions. Maybe he invited me because I wrote a few books with hints to the history of geology, but he never explained it to me, he just told me to come to Les Eyzies two years ago, and I am happy I accepted, because it appeared to be the last time I saw him alive. But I am not sure I can live up to his expectations about me.

I am not going to spell out his whole career and his enormous accomplishments, there is enough you can find on the internet, many obituaries, In Memoriams. Moreover, last year you bestowed on him and his wife Lydie the first François Ellenberger award for their contributions to the

history of geology. Therefore there is little I can tell you that you don't already know. Nevertheless I'll try to make an attempt.

I cherish his own account: 'How everything started' published in 2014 in *Geoscience Frontiers*. There you can read about his infatuation with Norway, his first granulites, his first fluid inclusions. However, there is a curious hole in that account. He writes: "I left Nancy in 1972, to spend few years in Paris and finally found my definitive place in Amsterdam in 1980". Absolutely nothing about those eight years in Paris. And then I remembered something personal he said to me in the early eighties, after a meeting of the Dutch National Science Committee of which we both were a member. He said: 'I am happy I got the job in Amsterdam, because I didn't want to live in the shade of Claude Allègre'.

And I understood. The seventies were the years of the controversy about the eruption of La Soufrière in Guadeloupe, 1977. I lived in Suriname in that time, but I had a subscription to *Le Monde hebdomadaire*, and as a geologist interested in the geology of the whole Caribbean area, I avidly read the whole story about who was right about what would happen there, Allègre or Tazieff. Tazieff appeared to be right but nevertheless he was the one who lost his job. I understood Jacques.

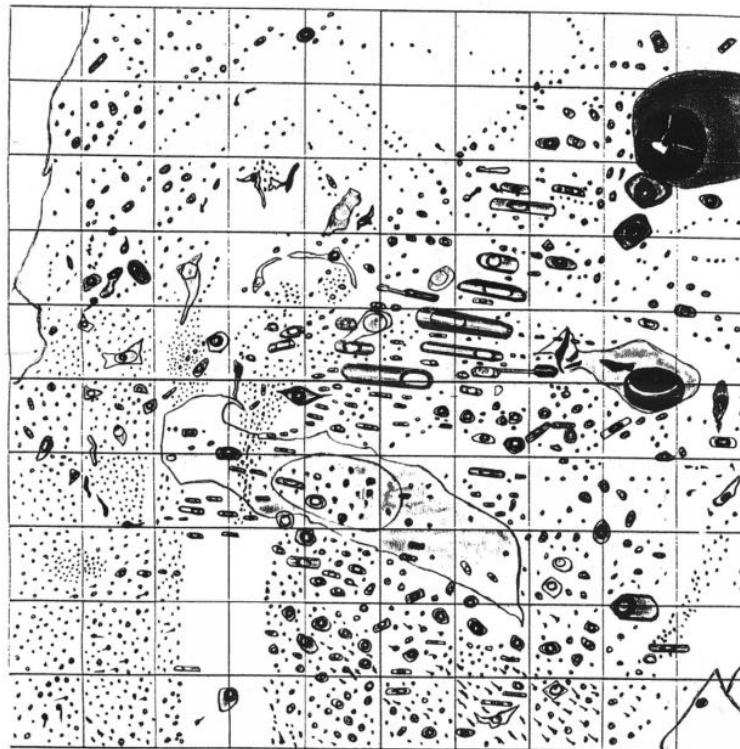
In Amsterdam he was happy and successful. It helped that he was a gifted polyglot. He had already learned Norwegian before. When he was working for his PhD he was living in a house with two unmarried sisters who only spoke Norwegian. When he returned to report to his supervisor in Oslo he spoke Norwegian with a strong Rogaland accent. That story came to me from Jacques' former PhD student Jan Marten Huizenga, now himself in Norway. He got it from Jacques' Norwegian friend Per Hegelia. So within a few months after his appointment in Amsterdam he also started to speak crystal clear Dutch, though always with some charming fluid inclusions of Norwegian, English and French.

In Amsterdam he developed a world-famous school for the study of fluid inclusions. Jan Henrik Huizenga remembers that in the four years he was working there Jacques received visitors from the United States, South Africa, China, Italy, Ireland, England, Austria, France, Norway, Belgium, Zambia and Zimbabwe and probably more countries, and always paid extensive attention to each of them, and published extensively with them as well.

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Jacques in his Amsterdam lab, in his inseparable white laboratory coat
(Frezzotti et al., 2024)



2038 Inclusions

Drawing of fluid inclusions by René Sinclair, in Jacques lab in Amsterdam
(Frezzotti et al., 2024)



Oval Hall, Teylers Museum, Haarlem, with mineral collection

He was keenly interested in the history of the geology of the Netherlands. One focus of his interest was Teylers Museum in Haarlem, the oldest museum of the Netherlands. Lydie was working there as a researcher. He also took his students there to show them the famous mineral collection and the sample from the top of the Mont Blanc, collected there by Horace-Bénédict de Saussure in 1787.



Regentesselaan 1, Haarlem, their home in the Netherlands

ARTICLES

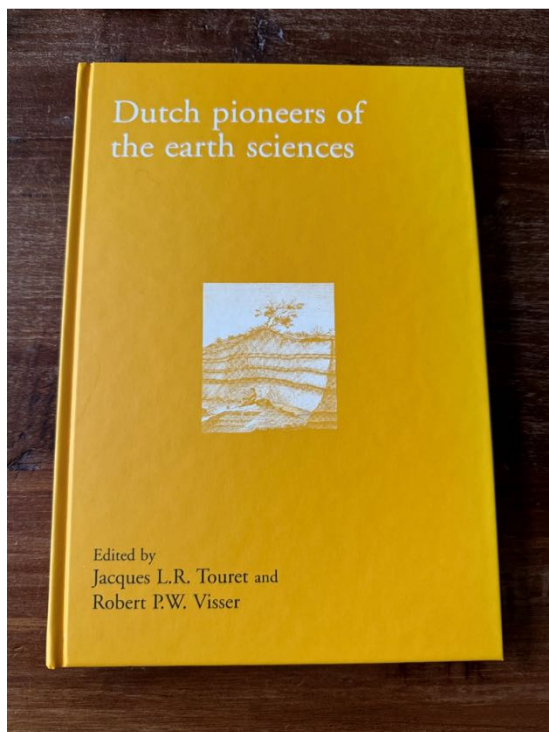
They lived in Haarlem themselves, at the Regentesselaan 1. This is their house. I live in Haarlem myself, so it was easy to find it last month. It is said that their house was full of quartz crystals.



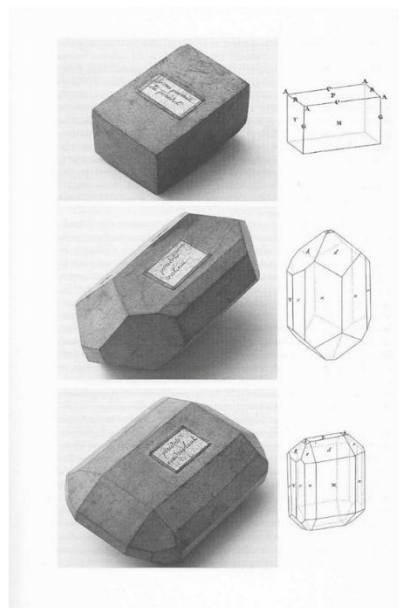
This group of quartz crystals from Arizona I got as a gift from Teylers Museum in Haarlem, after having given a lecture there some years ago.

A major contribution to the history of the geology in the Netherlands was the book *Dutch pioneers of the earth sciences*, edited by Jacques Touret and Robert Visser, and published by the Royal Netherlands Academy of Arts and Sciences, of which he was a proud member. In the preface the editors stated: ‘Another typical feature of Dutch scientists, apart from a travel aptitude and ability to master foreign languages, is a relative modesty, a desire to stay aloof from triumphalistic pompousness as exhibited by countries like France or England’. Apparently this was one of the reasons Jacques felt more at ease in Amsterdam than in Paris.

The book has among others a chapter by famous Quaternary palynologist Waldo Zagwijn about a Dutch contemporary of Hutton; a chapter by petrologist and poet Emile den Tex about neptunists and plutonists in the Netherlands, and a chapter by Freek van Veen, my predecessor at Delft University, on Winand Staring, foremost geologist of the Netherlands in the 19th century, who also plays an important role in my book on Friedrich Voltz in Suriname.



Crystal models: milestone in the birth of crystallography and mineralogy as sciences
Lydie Touret



The book on the history of geology in the Netherlands,
and Lydie Touret's contribution in it

The most important contributions in the book are by Lydie Touret and by Jacques himself. Lydie had received a Dutch grant to study the unique collection of 569 pear wood crystal models by René-Just Haüy she had discovered in Teylers Museum. It was the only almost complete collection of models that has survived the centuries without changes, and still had Haüy's original labels on them. Martinus van Marum, then director of Teylers Museum, had acquired the complete collection in 1804.

Jacques always insisted to give credit to his predecessors and colleagues. He once became very angry when a guest lecturer failed to mention the name of Clochiatti in his talk. He was not like Haüy, who adroitly tried to conceal the fact he borrowed his ideas about the 'molécule intégrante' from the Swedish mineralogist Torbern Bergman, as Lydie writes in her chapter. That sense of justice also explains Jacques' drive to delve into the history of fluid inclusions research, and to dedicate his chapter in the book to Hermann Vogelsang (1838-1874). Vogelsang deserves to be recognised as one of the founding fathers of modern microscopic mineralogy and petrology, he writes.

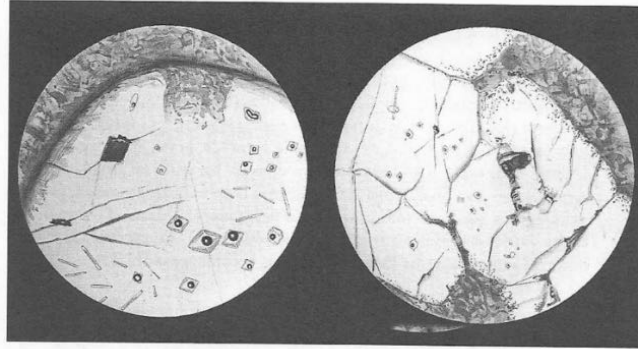


Figure 7 Drawings of melt inclusions from the *Philosophie der Geologie* (Tafel X). Left, porphyry (quartz trachyte?) from Cima di Potosi in Bolivia. Right, red porphyry from Halle, Germany. The different magnifications (left 300, right 100) have been chosen to illustrate the shape of individual inclusions (negative crystals, left) and right the relationships between the inclusions and their quartz crystal host.

Hermann Vogelsang, and a drawing from his book *Philosophie der Geologie*

Born in Germany in 1838, Vogelsang studied at Bonn University. There he became acquainted with the famous mineralogist Ferdinand Zirkel, and even married his sister. During a trip in the countryside in the Rhine valley they encountered by chance Henry Sorby, the British scientist who introduced the use of microscopic observations in thin sections. While Sorby had concentrated on melt inclusions in volcanic rocks, Vogelsang became intrigued by fluid inclusions in veins. Shortly after having won a scientific contest of the Dutch learned society *Hollandsche Maatschappij der Wetenschappen*, he was appointed in 1864 the first professor of mineralogy and petrology at the Polytechnical School of Delft, in the Netherlands, now Delft University of Technology. In a sense he was also one of my predecessors at that university. There he confirmed the hypothesis that the ‘mysterious fluids’ in crystals discovered by Brewster in 1823 indeed consisted of CO₂. Unfortunately Vogelsang died already at the age of 36 of a lung disease that was rampant in his whole family.

I don’t have to tell you that this Dutch discovery sits at the core of Jacques Touret’s academic career. He dedicated much of his research to demonstrate, using fluid inclusions, that the fluid phase involved in granulite-facies metamorphism was not water, but CO₂. The rest is history. Jacques got many distinctions and awards, but one case should still be remembered here, which I heard from the Belgian mineralogist Ernst Burke. In 2001 he got a doctorate *honoris causa* at the University of Liège, together with King Albert of Belgium. When both were putting on their gowns with their distinctions, Jacques that of the French *Ordre du Mérite*, King Albert told him softly that he had put it at the wrong side of his gown, and helped him to put it correctly.

Next year there will be an European conference on fluid inclusions in Turin, Italy, dedicated to Jacques. His former PhD student Alfons van de Kerkhof told me that.

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ECROFI 2025
EUROPEAN CURRENT RESEARCH ON FLUID AND MELT INCLUSIONS
FROM JUNE 27 TO JULY 4 2025 - TURIN ITALY

EXPRESS YOUR INTEREST



Dedicated to Jacques Touret

Jacques Touret (1936-2024) was a pioneer in the field of fluid inclusions and their applications in high-grade metamorphic rocks. His dedication and passion for studying "minute bubbles" in rocks from the depths of the Earth made him an eminent figure in geology. His career spanned decades of teaching and research at prestigious institutions across Europe, significantly contributing to our understanding of geology and geochemical processes.

Touret influenced many with his infectious enthusiasm and left an indelible mark on the scientific community.

EXPRESS YOUR INTEREST

Announcement of a conference dedicated to Jacques Touret in 2025

But perhaps the greatest honour, and anyway the most lasting of all is this: a mineral was named after both Jacques and Lydie: Touretite, a lithium-aluminum-beryllium borate from Madagascar, approved last year by the International Mineralogical Society. The supporting paper of 15 authors has not yet been published, but Touretite is already on the mindat.org website, <https://www.mindat.org/min-471232.html>: $\text{LiAl}_4\text{Be}_4(\text{B}_{11}\text{Be})\text{O}_{28}$

Thank you for your attention.

10. COUNTRY REPORTS (2024)

The activities reported in this section cover the 2024 calendar year. Countries are listed alphabetically. Individual member reports are grouped together by country. Email addresses and other contact information are given in the Membership section and not reproduced here. A Style Guide for submitting reports is provided at the beginning of this section. It is customary for individual members to submit their reports by the end of March each year. Members may submit their reports to a national or regional representative, if they have one, or directly to the Editor. Country representatives for the coming year are indicated below in italics. If in doubt, or if no country representative is specified, send your report directly to the Editor, Kerry Magruder (kvmagruder@gmail.com). Photographs are welcome so long as they have captions and attributions (with permission to use). There is a directory of Regional Vice-Presidents immediately after the Table of Contents as members of the INHIGEO Board.

Style Guide	
Africa (will appear in the next issue)	Sharad Master
Armenia	G. Khomizuri
Australia	Carol Bacon
Brazil	Silvia Fernanda de Mendonça Figueirôa
Canada	Darren H. Tanke
China	Chengsheng Sun and Xuemei Yuan
Czech Republic	Zdeňka Petáková
Ecuador	Nicolás Cuvi
France	Gaston Godard
Germany	Peter Schimkat
Hungary	István Viczián and Éva Zsadányi
Ireland	Patrick Wyse-Jackson
Italy	Ezio Vaccari and Marco Pantaloni
Japan	Hirokazu Kato, Shigeo Kato, Michiko Yajima, and Toshihiro Yamada

Lithuania	Algimantas Grigelis and Eugenija Rudnickaitė
Mexico	Lucero Morelos-Rodriguez
Morocco	Khallaf El Ghalbi
The Netherlands	Jelle Reumer
New Zealand	Mike Johnston
Norway	Johannes Mattes
Poland	Piotr Krzywiec
Russia	Irena G. Malakhova and Olga V. Martirosyan
Serbia	Ljupko Rundić
Spain	Octavio Puche-Riart
Switzerland	Dania Achermann
Turkey	Gönenç Göçmengil
Ukraine	Ihor Bubniak
United Kingdom	Duncan Hawley
United States of America	Kerry Magruder
Uzbekistan	B. S. Nurtaev and O. G. Tsay

Mobility among INHIGEO membership has increased significantly over the last decades: People become members of some country that may or may not be the country of their citizenship, they move around the globe etc. Therefore, the INHIGEO Board has decided to be more flexible about membership countries. **Members are welcome to self-identify to which country or countries they want to be counted**; they may also change in future. Should you desire any changes to your country affiliation, please feel free to inform the INHIGEO Secretary General (m.koelbl@lmu.de).

Style Guide

There is no template to follow in submitting reports of member activities. This is by design as various countries and members will best follow the formatting they deem appropriate to their own activities. The Editor defers to the discretion of the country and regional representative. Nevertheless, the following suggestions may be helpful in providing continuity among reports.

Header 2

Header 3

- *Headers*, as shown above, are in Times New Roman, blue.
 - Header 1 is bold, 14pt., with 12pt space afterward.
 - Header 2 is regular, 14pt., with 6pt space afterward.
 - Header 3 is italics, 12pt., with 4pt space afterward.
- *Content*: Many members report their activities as lists, organized in sections; for example: Events (conferences, public talks); Publications; and Other activities. Others compose a paragraph or two in narrative form. There is no recommended structure. If you submit an annual report to your institution, you may use the same template for the Annual Record, but we trust the Annual Record will actually be read, so we suggest writing for colleagues. Perhaps it might help to hold a specific reader in mind as you compose your report: Imagine your reader to be someone you met recently at a conference or event who wants to get to know you better.
- *Screen readability*: More people read the Annual Record on screens than on paper. While we still use the PDF file type to support printing, we are taking steps to improve readability on screen. These considerations include adopting a minimum font size, employing more page breaks for content transitions, and welcoming photographs.
- *Default font*: Times New Roman, 12pt.
- *Bullets*: To make single-spaced lists easier to scan, use bullet points. (This list has indented text, with 4-point spacing after each point.)
- *Recommended bibliography format*: Either *Chicago Manual of Style* or Turabian, note style (<https://www.chicagomanualofstyle.org/turabian/turabian-notes-and-bibliography-citation-quick-guide.html>). See *Chicago Manual of Style*, 16th Edition, recommended by the Commission for Bibliography and Documentation of the International Union of the History and Philosophy of Science.
- *URLs*: Times New Roman, 12pt, black underline to indicate a live link. Include the full web address so that print readers will be able to type the url.
- *Photographs* of people, events, places, and book covers are welcome. There is no obligation to include photographs, and not all photographs submitted will be printed. Nevertheless, there is often room for photos. Photographs are of intrinsic and historical value, and increase readability. Include a caption for every photo. Indicate the photographer and the copyright

status, with permission to use. When possible, send a high resolution version of the digital photograph for the INHIGEO archive. The archive also welcomes original print photographs.

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AFRICA

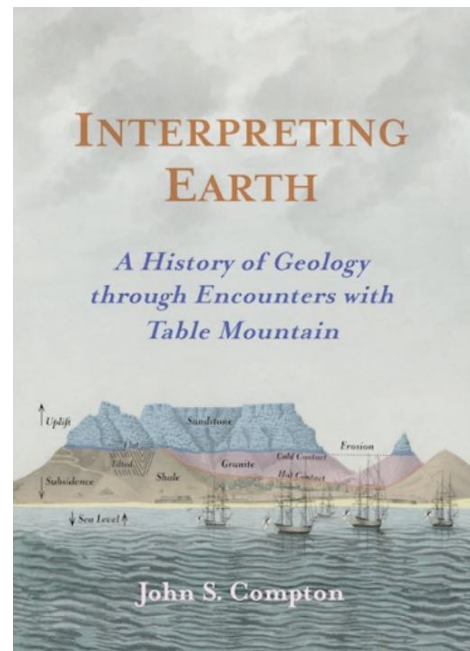
Report submitted by Dr. Sharad Master, Vice-President for Africa, INHIGEO,
Sharad.master@wits.ac.za

A comprehensive report for activities conducted in 2024-2025 will be included in the next Annual Record.

For this issue, we have one publication to which we would draw attention:

John S. Compton, *Interpreting Earth, A History of Geology through Encounters with Table Mountain* (Earthspun Books, 2023).

Towering above the city of Cape Town, Table Mountain has a tumultuous story to tell that extends back over 500 million years. The iconic landmark at the southwestern tip of Africa has been a welcome sight to locals and overseas visitors for more than 500 years. One of the most-climbed mountains in the world, Table Mountain has inspired many to record their thoughts and impressions. While the rocky massif has remained virtually unchanged, people's perceptions of it have changed dramatically. The written records of those who encountered Table Mountain reveal how we learned to read the deep history of the region in parallel with the development of geology as a science. *Interpreting Earth* chronicles the evolution of how we think and feel about mountains.



ARMENIA

Report submitted by G. Khomizuri, Yerevan (Armenia), g.khomizuri@yandex.ru

In 2024, **G. Malkhasyan** created the website “Geological Maps of Armenia,” which is based on a collection of geological maps of Armenia gathered over several decades. This website features approximately 600 maps of various scales (1:600,000; 1:500,000; 1:200,000; 1:100,000; and 1:50,000) and different subjects (geology, tectonics, hydrogeology, mineral resources, geophysics, etc). The materials presented on the website cover a time span of over 180 years, starting from geological cross-sections by F.D. de Montperreux (1843) and the Armenian Highland map by Otto Wilhelm Hermann von Abich (1879) to modern geological maps. These maps showcase the perspectives of their respective authors on various aspects of Armenia's geological structure. All maps on the website are grouped by scale and corresponding geological sections. This project was undertaken as a voluntary initiative and has contributed to geologists researching the geological structure of the Republic of Armenia. Access to the website is free via the following link: <https://geologicalmapsofarmenia.com/>.

Additionally, in 2024, he contributed to the production of a medal in honor of V.V. Tikhomirov, made from Armenian obsidian, which was awarded to Kenneth L. Taylor (USA).



COUNTRY REPORTS (2024)

G. Khomizuri read a report for the young staff of the Institute of Geological Sciences of the National Academy of Sciences of the Republic of Armenia dedicated to the 150th anniversary of K. Patkanov's publication of the first study on mineralogy in Armenia.

He also wrote the article “The beginning of a systematic study of the geology of Armenia in the period 1844-1881.” After final revision, he intends to submit it in 2025 to the Editorial Office of the journal “Izvestia NAS RA. Earth Sciences”.

Together with the staff of the O.T. Karapetyan Museum, **G. Khomizuri** reviewed in detail for the first time the history of the Leonid A. Spendiarov Prize.



Portrait, left: L.A. Spendiarov

This Prize is awarded every 4 years at the regular session of the International Geological Congress to outstanding geologists of the world. It was not awarded in 1922, 1926, 1968, as well as in 2008, 2012, 2016, 2020 and 2024. See list of all laureates of the L.A. Spendiarov prize, next two pages.

At the next, 38th session of the Geological Congress in 2028 in St. Petersburg, the L.A. Spendiarov Prize appears as a “planned event,” and the authors of this study hope that this award will be restored.

Publications:

- Khomizuri G. Annual Report from Armenia // INHIGEO Newsletter. 2024. N 56 for 2023. Charlotte, North Carolina, USA. P.99-101.
- Khomizuri G Obituaries. Professor Yuri Soloviev (1931-2023) // INHIGEO Newsletter. 2024. N 56 for 2023. Charlotte, North Carolina, USA. P.71-72.
- Grigoryan G., Badalyan M., Khomizuri G., Pogosyan N., Khachatryan A. 155 years since the birth of Leonid Afanasyevich Spendiarov // Izv. NAS RA. Earth Sciences. 2024. No. 3. pp. 57-70.

LAUREATES OF THE L.A. SPENDIAROV PRIZE



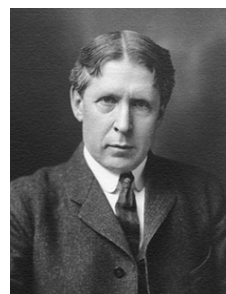
1900 y.
Alexander Karpinsky



1903
Waldemar Brøgger



1906
Pheodosy Chernichev



1910
John Clarke



1918
Émile Argand



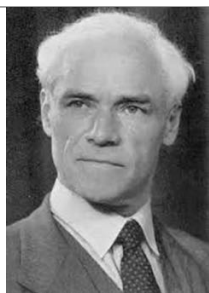
1929
Louis Nel



1933
Thomas Nolan



1937
Vladimir Baturin















1948
Lawrence Wager



1952
Henri Termier

COUNTRY REPORTS (2024)

 <p>1956 Manuel Alvarez</p>	 <p>1960 Sigurður Þórarinnsson</p>	 <p>1964 Bhabesh Roy</p>
 <p>1972 Hugh Winne-Edwards</p>	 <p>1976 Norman Fisher</p>	 <p>1980 Rene Blanchét</p>
 <p>1984 Nikitaq Bogdanov</p>	 <p>1989 Elizabeth Kieffer</p>	 <p>1992 Akiho Miyashiro</p>
 <p>1996 Liu Baojun</p>	 <p>2000 Marcio Pimentel</p>	 <p>2004 Carlo Doglioni</p>

AUSTRALIA

Carol Bacon

Carol Bacon currently serves as the INHIGEO Vice-President Australasia/Oceania. She continues her interest in the history of geology, particularly in the lives of people who have contributed to the understanding of Tasmanian geology. In recent times she has written several books relating to the colonial history of Tasmania. In the last year Carol attended the INHIGEO conference in Busan held as part of the 37th International Geological Congress, where she co-chaired the session on *History of geoscientific travels in Asia and beyond*. Carol also presented a paper on the life of Charles Gould (1834-1893), who was commissioned by the Tasmanian Government in 1859 to make a geological survey of the island and prepare a book on the geology of Tasmania. Carol contributed an article on Charles Gould to the INHIGEO Anniversary series which was published in June 2024. She has completed a biography on Charles Gould which it is hoped will be published in due course.

Wolf Mayer

Wolf Mayer continued his interest in the early geological exploration of Australia and the Pacific. He presented talks on this topic at the INHIGEO symposia in Les Eyzies in 2022, published in 2023; in Krakow in 2023, accepted for publication 2024; and in Busan 2024. The title of his talk in Krakow was: “Officers and learned gentlemen: their first investigations of the geology of New South Wales and Van Diemen’s Land (Tasmania), 1788-1843.” The title of that given in Busan was: “James Dwight Dana and his geological excursions in New South Wales.”

Publication:

Mayer, W., 2022. First geological investigations in Australia and Antarctica by French scientists, naturalists, and surgeon on voyages of discovery, between 1792 and 1840. *Proceedings of the 47th INHIGEO Symposium, Les Eyzies, 2022. Special Issue of the Travaux of COFRHIGEO*, T. XXXVI, pp. 121-145.

Susan Turner

My position is now Adjunct Research Associate, Queensland Museum Geosciences.

I was asked by the Geological Curators Group editor Phil Hadland to write an autobiographical piece in June 2024 for the 50 years anniversary of GCG – this was placed online as a blog in January 2025.

In December 2024 journalist Aurelie Coulon prepared an article for *Le Temps* magazine about the historical research and book *Rebels, Scholars & Explorers* published by myself and Annalisa Berta on the history of women in vertebrate palaeontology.

COUNTRY REPORTS (2024)

A contribution on the history of women by INHIGEO for the 60th IUGS Anniversary was published in February 2024 in 'Episodes' regarding Canadian Vera Lafferty who had founded this magazine during her time working for the then-President of IUGS.

Publications

Coulon, Aurelie 2024. Les chasseuses d'os, des pionnières à l'histoire contrariée. *Le Temps* magazine, Sat/Sun 28-29 Dec, no 8112, cover + 2-3. & online

Long, J.A., Trinajstić, K., Turner S [& Young GC] 2024. Dr. Alex Ritchie (1935-2023). In: Fernandez, JM, Banos-Rodriguez, R, Cloutier, R & Miyashita, T. eds 17th International Symposium on Early and Lower Vertebrates, Rimouski-Miguasha, Quebec, Canada, June 16-22, 2024, Proceedings & Abstracts. *Ichthyolith Issues SP 16*, p 95-100.

Stensiö, Erik & Miles, Roger Steele [trans] 2024. Autobiographical Memoir, in Turner, S. ed. *Ichthyolith Issues SP 19*.

Turner, S. 2024a. IUGS 60th women in the early years: Vera Lafferty and the beginnings of *Episodes*. *Episodes* Feb. <https://doi.org/10.18814/epiiugs/2023/023003>

Turner, S. 2024. Dr Habil. Valentina Karatajūtė-Talimaa (1930-2022). In: Fernandez, JM, Banos-Rodriguez, R, Cloutier, R & Miyashita, T. eds 17th int Symposium on Early and Lower Vertebrates, Rimouski-Miguasha, Quebec, Canada, June 16-22, 2024, Proceedings & Abstracts. *Ichthyolith Issues SP 16*, p. 89-90.

Turner, S. & Mannering AI with help from Roger S. Miles 2024. Ian Macadie (1944-2024). In: Fernandez, JM, Banos-Rodriguez, R, Cloutier, R & Miyashita, T. eds 17th int Symposium on Early and Lower Vertebrates, Rimouski-Miguasha, Quebec, Canada, June 16-22, 2024, Proceedings & Abstracts. *Ichthyolith Issues SP 16*, p. 91-92.

Notice — Disbanding of the Australian National IGCP Committee


This year the CEO of Geoscience Australia (GA), Canberra, withdrew the dedicated funding for Australian geoscientists to participate in the UNESCO:IUGS IGCP programme that was initiated by former Director Roye Rutland before 1980. This has meant the closure and disbanding of the Australian National IGCP Committee and makes IGCP activity by individuals almost impossible unless meetings are within Australia (also less likely).

I have kept IGCP historical records since 2000, when I became a member of the IGCP Board and did several years of research on the history of IGCP, unravelling its origins (e.g. Turner 2006). Now I worry that all will be lost; some are here in Brisbane (deteriorating), others are in UNESCO Paris, in IUGS archives (wherever they are now – last viewed in Trondheim 2009), in the Basser Library in Canberra, or at individual institutions, such as GA or with former Committee, IGCP Leaders or participant members. After more than 40 years, Australian IGCP work, which has been at the forefront, is greatly diminished.

Contributed by Susan Turner.

Ref (Chairman ANIGCP et al. 2025. *The Australian Geologist Feb.*).

Announcement by Susan Turner of a new book by Carole Burrow:

<p>NEW BOOK RELEASE!</p> <p>AUD25-00 plus postage & handling Paperback, 245x170 mm, 116 pp</p> <p>DOWN THE AGES AND ACROSS THE CONTINENT is a selective account, mostly about fossils of backboneed animals that are more than 300 million years old, the places and rocks in Australia where they are found, and the people who look for and study them. The story begins in the northwestern corner of the continent and ends in the southeastern corner, more or less following the course of the sea that invaded the continent nearly 500 million years ago... and with a few side trips thrown in.</p> <p><i>About the author</i> Carole Burrow is a vertebrate palaeontologist who studies ancient fossil fish.</p> <p>To purchase the book, contact Carole at carole.burrow@gmail.com</p>	
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AUSTRIA

Report submitted by

Marianne Klemun

Marianne Klemun (Department of History, University of Vienna, Austria) has been awarded in 2023 a project by the Academy of Sciences in Vienna (Austria) at the Natural Science Division. The project concerns the plant “*Valeriana celtica* subsp. nor”. The rarity of this endemic plant, or rather its fragrant root, is the subject of a 2000 year old history. The proposed study moves between knowledge, science and economics, between medicine and hygiene, between the Alps and the Orient. It is both local and global. The plant's locations are linked to the gneiss-mountains.

The project has been finalised and a joint publication (book) together with Michael Jungmeier et al. is in print.

This year, Marianne Klemun was President of HESS (See: Letter from the President. Discontinuity in Continuity. In: Earth Science History. Journal of the History of Earth Sciences Society, vol. 42/2 (2023) ii.

Marianne Klemun, in 2024, **published 7 articles**,
she gave **6 presentations** (3 presentations at conferences, mostly invited;
3 public talks at public events at the floor of the Broadcast Vienna, within an Exhibition
and a book presentation; all were invited.
One Book about “*Valeriana*” is in print.

Articles

Preparation techniques: from single bone fragments to mounted skeletons–models. Hybrid epistemic objects, and the question of evidence in the context of 19th-century Moa finds. In: Earth Sciences History, Vol. 43, Nr. 2 (2024), 222–247.

Expeditions and Fieldwork in Earth Sciences. In: Handbook of the Historiography of the Earth and Environmental Sciences. Historiographies of Sciences. Edited by Elena Aronova, David Sepkovski, Marco Tamborini. Springer 2024, Cham. pp. 1-24; online: https://doi.org/10.10007/978-3-030-92679-3_15-1.

Weltliche Wissenschaftskulturen. Geländearbeit, “Naturwahrheit” und Räume. [Secular scientific cultures. Fieldwork, ‘natural truth’ and spaces]. In: Niederösterreich im 18. Jahrhundert [Lower Austria in the 18th century, Handbook], Bd. 2. Gesellschaft, Kultur und Religion, hrsg. von Tobias E. Hämmerle, Josef Löffler, Elisabeth Rosner, Martin Scheutz St. Pölten 2024, 385–411.

Äußerst komplexe Verhältnisse. Vom Wissen, Gärten und Sammlungen [Extremely complex relationships. On knowledge, gardens and collections]. In: RENAISSANCE einst, jetzt & hier. Katalog zur Ausstellung auf der Schallaburg [RENAISSANCE once, now & here. Catalogue of the exhibition at Schallaburg Castle]. Schallaburg 2024, Schallaburg Kulturbetriebsges.m.b.H., 214–218.

Vom Sammeln musealer Naturobjekte zum gesellschaftlichen Leben – Reflexionen zum Jubiläum des Naturwissenschaftlichen Vereins für Kärnten (1848-2023). [From collecting specimen to social life - reflections on the anniversary of the Natural Science Society for Carinthia (1848-2023)]. In: Ornithologischer Rundbrief 37 (2024), 28–32.

Der mehr als bemerkenswerte Franz Joseph Graf Enzenberg (1747–1821) [The more than remarkable Franz Joseph Count Enzenberg (1747-1821)]. In: Bulletin, Geschichtsverein für Kärnten, erstes Halbjahr 2024, Klagenfurt 2024, 87–96.

Der Botanische Garten zu Klagenfurt – Das Alpinum als Tor zur Welt? Ein Wissensraum zwischen „Paradies“ und Mangelwirtschaft in den 1920er Jahren. In: Ein Land im Wandel. Kärnten in den 1920er Jahren [The Botanical Garden in Klagenfurt - The Alpinum as a gateway to the world? A centre of knowledge between ‘paradise’ and scarcity in the 1920s]. In: A land in transition. Carinthia in the 1920s.. Festschrift für Claudia Fräss-Ehrfeld, ed. von Heidi Rogy und Peter Wiesflecker. Verlag des Geschichtsvereines für Kärnten: Klagenfurt 2024, 115–122.

Presentations

Public performances and discussions:

Gespräch: „Zurück in die Zukunft“ Wien vor 1900“. [Talk: ‘Back to the future’ Vienna before 1900, about Science in Vienna] Radiokulturhaus RadioCafe [Radio Prodcasting, RadioCafe], Diskussionsleiter: Oliver Rathkolb und Katharina Gruber, Diskutierende Johannes Feichtinger und Marianne Klemun, 11. 2. 2025, 18.30 Uhr.

Podiumsdiskussion anlässlich der Buchpräsentation: Niederösterreich im 18. Jahrhundert [Podium discussion on the occasion of the book presentation: Lower Austria in the 18th century], Universität Wien, Sky Lounge, 21. November 2024, 18:00 Uhr.

Menschenbild, Natur, Garten. Gespräch mit den VermittlerInnen und den BesucherInnen der Ausstellung [Images of human, nature, garden. Discussion with the curators and visitors of the exhibition] Schallaburg, 17. Oktober 2024.

Lectures at Conferences:

Catalogues, Collections, Credibility – Between Mineralogical Knowledge, Possession and Perception in the 18th Century. At: The 37th International Geological Congress (IGC 2024) in Busan, Korea; 25 to 31 August 2024.

COUNTRY REPORTS (2024)

Gartenmauer – Tor zur Welt: Universitäre botanische Gärten (16.-19. Jahrhundert). Bei: Die Universität der Dinge. Zur materiellen Kultur von Hochschule und Wissenschaft vom Mittelalter bis zur Spätmoderne [Garden Wall - Gateway to the World: University Botanical Gardens (16th-19th Century). At: The University of Things. On the Material Culture of Higher Education and Science from the Middle Ages to Late Modernity. Conference of the Society for Universities and Science History] Tagung der Gesellschaft für Universitäts- und Wissenschaftsgeschichte und der Georg-August-Universität Göttingen, 4.-7. September 2024.

Botanical Gardens: Urban Places and Natural Spaces of Knowledge in Early Modern Times. At: Sharing Natural Histories. The Breyne Family of Gdańsk c. 1670–1760. Leipzig University 13-15 June 2024.

BRAZIL

Report submitted by Silvia Fernanda de Mendonça Figueirôa, in Campinas.

In 2024, the research project titled “History of Science and Technology in Brazil, 1945-2000” (História da ciência e tecnologia no Brasil - 1945-2000) entered its final year. In this project, INHIGEO members José Eduardo Ferraz Clemente, Silvia Fernanda de Mendonça Figueirôa, and Maria Margaret Lopes continued to participate, researching the following geological topics – respectively: ‘Geophysicists and geologists facing political persecution during the civil-military dictatorship’; ‘Exploration and exploitation of radioactive minerals in the first half of 20th century’; and ‘The REMAC Project - Global Recognition of the Brazilian Continental Margin – MCB, 1972-1978’. As one of its results, a Symposium was organized by Margaret Lopes, Silvia Figueirôa, and Olival Freire within the biennial congress of the Brazilian Society for the History of Science (Salvador, Bahia).

In parallel, those three members also continued to work on their other projects: José E. F. Clemente - “Training petroleum geophysicists at UFBA”, Silvia F. de M. Figueirôa - “Arenas of geological debate in the nineteenth century: the Société Géologique de France and the Geological Society of London as spaces of knowledge production”, supported by the Brazilian Science Foundation (CNPq - 03/2022-02/2026); and Maria Margaret Lopes - “The mineral resources of the oceans: research trajectories focusing on nodules, crusts and metallic sulfides in Brazil, in the international context (1950-1980) also supported by the Brazilian Science Foundation (CNPq- 03/2023-02/2027).

Silvia Figueirôa received the “Mary Rabbitt Award in the History and Philosophy of Geology” from the Geological Society of America (GSA). Besides attending the Award Ceremony and the GSA meeting in person, where she met several colleagues and INHIGEO members, she took the opportunity to spend two weeks conducting research in the rich History of Science Collections of the University of Oklahoma Library. There she was warmly and competently welcomed by the colleagues Kerry Magruder, JoAnn Palmeri, and Jillienne Kirkpatrick.

COUNTRY REPORTS (2024)

Papers specifically related to the History of Geosciences published by Brazilian INHIGEO members are listed below. Members have also published on education, gender issues, or geology, strictly speaking; therefore, works related to those topics will not be listed here.

BRICE, William R.; FIGUEIRÔA, Silvia Fernanda de Mendonça. *Cornell's first geologist: Charles Frederick Hartt, explorer geologist in North and South America*. Ithaca: Paleontological Research Institute/PRI, 2024. v. 1. 766p.

FIGUEIRÔA, Silvia Fernanda de Mendonça. "The Society, the Savants, and the Scientist: A Glimpse at the Société Géologique de France through the activity of the founding member Nérée Boubée (1830-1860)". *Earth Sciences History*, v. 43, p. 101-117, 2024.

FIGUEIRÔA, Silvia Fernanda de Mendonça; LOPES, Maria Margaret. "Historiography of Earth Sciences in Latin America". In: *Historiographies of Science*. Cham, Suíça: Springer International Publishing, 2024, v. 1, p. 1-20.

LOPES, Maria Margaret. "Como se a geologia acabasse à beira-mar-: escalas temporais e espaciais das ilhas brasileiras". *Estudios Interdisciplinarios de America Latina y el Caribe*, v. 35, p. 44-68, 2024.

LOPES, Maria Margaret; FIGUEIRÔA, Silvia Fernanda de M. « Le CNAM inspire une idée de musée aux tropiques: la collection des machines et des modèles industrielles de la Sociedade Auxiliadora da Indústria Nacional / SAIN (Brésil, 1827-1878) ». *e-Phaistos*, v. XII, p. 1-21, 2024.

CANADA

Report submitted by Darren H. Tanke.

Philip J. Currie

Most of my historical research in 2024 took place in Mongolia, although most of my fieldwork during the summer of 2024 was in fact in Alberta, Canada. For many years, I have been trying to relocate dinosaur quarries of earlier expeditions in the Cretaceous rocks (Nemegt Formation) of the Gobi Desert (Currie 2016). In 2023, we reopened one of the Polish-Mongolian Paleontological Expedition quarries from 1965, and recovered additional bones of the holotype specimen of *Nemegtosaurus mongoliensis* (Currie 2024). Two other Polish-Mongolian quarries were visited in 2023, and again in 2024. One was a sauropod pelvis that had been abandoned in 1970, and additional measurements and photographs were taken in 2024 for a research paper in progress. The second was Quarry NEM019, the holotype (ZPal MgD-I/104) of *Prenocephale prenes*, which included a beautiful skull and partial skeleton that had been collected in 1970. In 2023, one of our expedition members (Phil Bell) found the right lower jaw of the specimen immediately outside of the quarry. On the basis of that discovery, we reopened the quarry in 2024 and found an additional half dozen bones. We did not have time to complete the quarry, but will be returning in 2025 to finish the job.

Some of the time in Mongolia was also spent trying to relocate quarries excavated from 1946 to 1949 by the Mongolian Paleontological Expeditions (MPE) of the USSR Academy of Sciences at Nemegt. Using the sketch map (giving rough compass directions and distances from their main camp in Central Sayr) published by Efremov (fig 2 of his 1955 paper), we identified several possible Russian Quarries in 2024. We are hoping that this will lead to the positive identification of more Russian quarries later this year.

Acknowledgements: The Mongolia fieldwork was a major expedition that would not have been possible without the financial and logistic support of many people and organizations, including the Institute of Paleontology (Mongolian Academy of Sciences); Mongolian Quest; and Clive Coy and Eva Koppelhus (University of Alberta).

References:

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- Currie, P.J. 2024. International Commission on the History of Geological Sciences (INHIGEO), Annual Record 56: 110-116.
- Efremov, I.A. 1955. Nemegt dinosaur taphonomy (South Gobi, MPR). In: *Voprosy Geologii Azii*. Izdatel'stvo Akademii Nauk SSSR. Moscow, pp. 789-809 (in Russian).

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Figure 1. Most of the 2024 expedition members at our campsite in the Central Sayr of Nemegt. From left to right: Zorig Enkhtaivan (Mongolia); Uyanga Naranchimeg (Mongolia); Chin Sung Ling (Canada); Denise Maranga (Canada); Ryan Wilkinson (Canada); Gorm Raun (Canada); Eva Koppelhus (Canada); Phil Currie (Canada); Bruce Shillinglaw (USA); Thomas Dudgeon (Canada); Charles Jennisen (USA); James Whebell (Canada); Tetsuto Miyashita (Canada); Carter Cox (Canada); Jennifer Asleson (USA); Mary Lee (USA); Munkhtur Erdenee (Mongolia). Photograph by P.J. Currie.



Figure 2. *Prenocephale* quarry NEM019 (in Northern Sayr of the Nemegt Locality) as we started to cut down the overburden to get to the bone level. Photograph by P.J. Currie.

Ernst Hamm

The decision by the Subcommittee on Quaternary Stratigraphy (SQS) to reject the Anthropocene Epoch as part of the Geological Time Scale was closely related to my INHIGEO activities for 2024. Together with Claudine Cohen, a French INHIGEO member, I co-organized a symposium on “Anthropocene, History and the Geosciences: Contributions to Contemporary Debates” for IGC 2024 in Busan, South Korea. The symposium, which included contributors from Europe, North America and Asia, was an opportunity to consider the deeper historical roots of the idea that humans have the power to change their geological environment, and to reflect on its implications for the present. The contributors consisted of historians and several scientists, including Francine McCarthy, the key figure in developing the Anthropocene proposal that was considered by the SQS. It is fair to say that when contributors submitted their abstracts for the symposium the general expectation was that the Anthropocene proposal would be accepted by the SQS. A number of papers addressed this decision and reflected on where this might lead. There was also a recognition, including in the Presidential address of IGC 2024 that the idea of an Anthropocene “event” and its relevance is still very much with us and is not going anywhere.

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One of the upshots of the symposium was that the Anthropocene is one more example of geology being deeply relevant to and, at times, intertwined with geopolitics.

Crawford Lake, a small meromictic lake in southern Ontario, not far from Toronto, and the proposed Golden Spike for the Anthropocene, was the point of departure for my own contribution to the symposium: “The Anthropocene, Crawford Lake and Human-Geological Interactions.” My paper argued that the Anthropocene Epoch was unusual in being very recent and, as such it meant that the epoch did not involve a historical reconstruction of a past unrecorded by humans. However, I also pointed out that the general direction of scientific activity for centuries has been to more refined measurement and detection, and the geological study of the deposits of Crawford Lake is wholly consistent with this. Finally, I noted the long and distinguished pedigree in geology that takes note of human-geological interactions, the most famous instance of which must be Charles Lyell’s study of the “Serapis Temple”, an image of which adorns the frontispiece of *The Principles of Geology*. The ruins of this ancient Roman structure would have resonated very strongly with Lyell’s readership, for they illustrate with great efficacy the principles he was presenting. The jewel-like beauty of Crawford Lake, especially as seen in aerial pictures, could likewise serve as an engaging symbol of the need for change in human-geological interactions, for its deposits record a story of largely unchecked human ambitions of the past century and they might serve as a reminder of the need for humility after so much hubris.

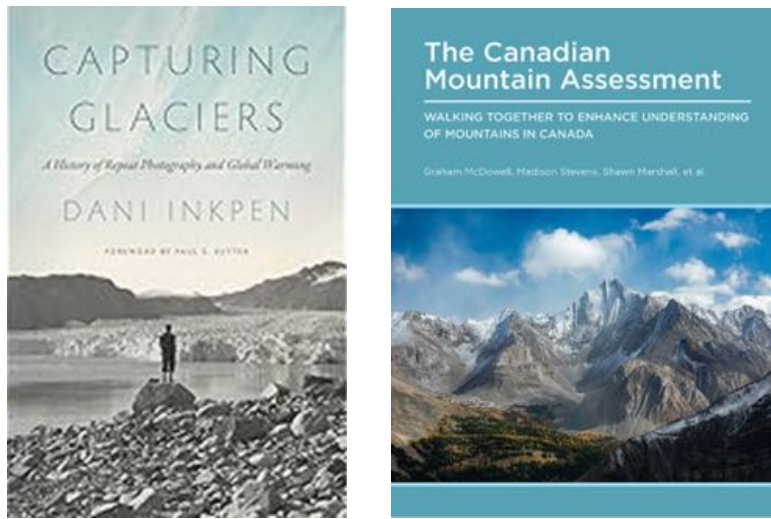
In 2024 I also held a seminar at the University of King’s College, Halifax, on the geological ideas of the Enlightenment experimental physicist, Göttingen professor and aphorist, Georg Christoph Lichtenberg; I also read a paper at the annual meeting of the Canadian Society for the History and Philosophy of Science, held in Montreal, on ideas of agency, especially in relation to chemistry and mineralogy, in the work of the early Goethe and his less well-known Swiss contemporary Tobler, also a Georg Christoph.

Danielle Inkpen

I am a historian of the Earth Sciences with training in environmental history. I am currently an assistant professor at Mount Allison University in Sackville, New Brunswick, Canada. I was on parental leave for all of 2024 and did not submit a report for 2023. Thus, I will also include work done during that year in this report.

Most significantly, for my research, my book, *Capturing Glaciers: A History of Repeat Photography and Global Warming*, was published by the University of Washington Press in early 2024. This book is a history of repeat glacier photography as it was practiced over a long twentieth century in North America. It considers repeat glacier photography as one way of knowing about glaciers among several that developed during that period. A number of spin-off or subsequent publications came from the publication of this work. Including, pieces for the journal *Natural History*, and the online blog NiCHE. I gave several online talks on this research in 2023 and 2024, including at the University of Cambridge, at the University of Oregon's Eugene Glacier Lab colloquium, and for INHIGEO. I also presented new material on a history of

searches for the yeti at the American Society for Environmental History meeting in Boston in 2023 and the Canadian Society for the History and Philosophy of Science meeting in Toronto.



In the spring of 2023, I went to the Scripps Institution of Oceanography in La Jolla, California to take up the William E. and Mary B. Ritter Memorial Fellowship that I had been awarded in 2020, but unable to accept properly due to the pandemic and an earlier parental leave. At Scripps I met with Earth scientists, presented on my work in the history of glaciology, and conducted research in the archives of the San Diego Library.

For much of 2023 I was kept busy as co-lead author of a chapter in the Canadian Mountain Assessment (CMA). This assessment, the first of its kind, sought to determine what we know, what we do not know, and what we need to know about mountain environments in Canada. It was a deeply interdisciplinary affair, and was unique in the assessment world for its foundational starting point. The CMA aimed to braid together Indigenous knowledges, scientific knowledges, and knowledge held by artists and practitioners such as guides in its understanding of mountain environments. I co-led the chapter titled "Mountains as Homelands" with Megan Dicker. The book was published by the University of Calgary Press in late 2023, both in material format, and as a free online version that is subject to modification according to ongoing consent agreements with Indigenous knowledge holders. I served as a member of the speaker panel at its launch at the Banff International Mountain Book and Film Festival that November. I also had the good fortune to speak about the project, and mountains more generally, in December 2024 as a member of an online panel devoted to International Mountain Day on December 11th, hosted by the Yellowstone to Yukon conservation initiative.

Thus, much of my work in 2023 and 2024 was in the related areas of the history of mountain glaciology and the history of mountains, understood as geological and human environments. I will note, lastly, that I spent much of 2024 helping to organize an international meeting in Halifax, Nova Scotia titled "Circulating Knowledge, 20 years on." One of my main roles in this project was as co-curator of a digital exhibit, "The Things They Carried: Unveiling the Place of

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Objects in the Global Circulation of Knowledge”, with colleagues at the Whipple Museum at University of Cambridge and Ingenium: Canada's Science and Technology Museums. I mentioned this because this project is ongoing and we are currently seeking digitized objects that embody and explore the theme of circulating knowledge globally in the history of science, including those in the geological sciences. I invite contributions and expressions of interest on these matters from INHIGEO members. I can be reached at **dkinkpen@mta.ca**

Hyperlink to the exhibit, in progress:

<https://206-12-90-99.cloud.computecanada.ca/s/home/page/welcome>

Jordan Mallon

I have spent much of the last year on sabbatical. People frequently ask me whether I've travelled any place exotic for my research, but I've stayed at home, seeing as how my young family can't pack up and travel with me. Instead, when I'm not otherwise distracted, I've been working on an archival project at the Canadian Museum of Nature, digitizing and transcribing the old field notes of the Sternberg family of fossil hunters who collected primarily in Alberta and Saskatchewan during the first half of the last century. Their collections of Late Cretaceous vertebrates form an important component of our fossil collections at the Museum and of the Canadian dinosaur record more broadly. The plan is to eventually make these notes available to all interested researchers and, perhaps, the public. When that work is done, I intend to write a few technical and popular articles related to their fieldwork and fossil collections. I will also be presenting on this project at an event sponsored by the Museum of the Rockies this coming March.

Curating the Sternberg notes in this way is important because they provide important historical, geographic and stratigraphic data not otherwise available from the bones alone. Within the past year, with reference to the newly transcribed field notes, my students and I have submitted manuscripts looking at some of the Sternberg fossils anew. These projects were teased in previous updates and are given below.

Lambe gravestone before and after cleaning and restoration



Before

After

Finally, I've been deeply involved spearheading another project honouring Canada's first vertebrate palaeontologist, Lawrence Lambe. Lambe's early research concerned the taxonomy of marine sponges, but he eventually became better known for his work describing some of Canada's first dinosaurs. He coined such well-known dinosaur names as *Styracosaurus*, *Euoplocephalus*, and *Gryposaurus* before his untimely death in 1919. Lambe was buried in Ottawa's Beachwood Cemetery, where his gravestone can be seen today. Out of a feeling of both curiosity and admiration, I visited his grave during the COVID pandemic and noticed that the stone was in disrepair. It was cracked, covered in lichen, and the lead lettering of his nameplate was peeling off. Feeling we owed it to the grandfather of our profession in Canada, I approached the Canadian Society of Vertebrate Palaeontology last year about soliciting donations from the Society's members to repair Lambe's gravestone. So far, we've raised enough funds to have his stone cleaned and repointed (see photos included here). However, I would still like to raise another \$1000 CDN to have his nameplate replaced, because the lead lettering can no longer be restored. If, by chance, you would like to contribute to this project, please reach out to me at jmallon@nature.ca, and I will put you in touch with the Treasurer of our Society. I anticipate that we'll be able to install the new nameplate in the spring, once the snow has melted. I'll finish by

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adding that this work is being done with the blessing and support of Lambe's descendants, who I was able to meet last summer and show them their great-grandfather's fossils.



The Lambe family and myself (second from left) in the Natural Heritage Building of the Canadian Museum of Nature.

Mallon, J. C., M. Roloson, E. L. Bamforth, J. B. Scannella, and M. J. Ryan. In review. The Canadian fossil record supports anagenesis in *Triceratops* (Ornithischia, Ceratopsia). *Journal of Vertebrate Paleontology*.

Warnock-Juteau, T. M., M. J. Ryan, R. T. Patterson, and J. C. Mallon. 2024. Computed tomographic investigation of a hatchling skull reveals ontogenetic changes in the dentition and occlusal surface morphology of Hadrosauridae (Dinosauria: Ornithischia). *Vertebrate Anatomy Morphology Palaeontology* 11:133–150. [https://doi.org/ 10.18435/vamp29395](https://doi.org/10.18435/vamp29395)

David A.E. Spalding

Senior and Slower — But Not Retired

Now in my mid eighties, I am in my seventh decade of interest in the history of earth sciences. While I am definitely slowing down, I continue to explore my various interests in this and other fields. Although my current work is not complete enough to publish in extensive form, I am happy to draw attention to items that may be of interest to other INHIGEO members, whether in Canada or elsewhere. This year I report on further explorations of earth science knowledge and exploitation among indigenous peoples, and continue my index of Canadian activity in INHIGEO publications. As I complete this report, I am packing my extensive library and documentary resources so that my wife and I can move from our 35-year retreat on a small island to a more urban setting. Accordingly, I am also confronted with issues of transfer and preservation of published work to possible public institutions, in an age where researchers and libraries increasingly regard a computer search as an adequate way to find and access all relevant information.

Indigenous Miners in British Columbia

In previous INHIGEO reports and other publications I have discussed the roles of aboriginal peoples in the discovery and interpretation of fossils, meteorites and economic minerals. These issues are of more than academic interest.

Hugh Brody has analyzed the history of hunter-gatherer and agricultural communities, and points out that “it is no coincidence that in so many parts of the world... agriculturalists despise hunter-gatherers for being “primitive” and hunter-gatherers complain that farmers are belligerent.” (Brody 2001, p. 307). Canada as a country is wrestling with a history rife with such conflict, and today its people — aboriginal and “settler” — are trying to find new ways of living together and sharing and managing resources in the interests of all peoples. The competing interests of First Nations and business in land ownership and resource exploitation are managed in many different ways, and conflict over application of international guidelines, law and policy are daily news. The province of British Columbia is rich in coal and metallic deposits, and First Nations have played a part in their discovery and exploitation. Yet the prevailing narrative recognizes only native discovery, while the business of extraction and transportation is seen as the proper role of non-native society. Increasingly, the accuracy of the prevailing narrative is being questioned, and fuller and more accurate narratives made available.

Fraser’s biography of Joseph William McKay appeared in 2021. McKay was a Métis (born to Indigenous/European mixed blood parents). He was born in 1829, and was employed by the Hudson’s Bay Company as a young man. He documented a widely told story of a First Nations man visiting a blacksmith’s shop in Victoria to get his gun repaired. (Fraser 2021 p.48ff). Seeing the fire replenished with coal, “he said there was plenty of such coal where he lived.” McKay asked him to bring some “and I would give him a bottle of rum and have his gun repaired for

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nothing.” The man, from the Snuneymuxw nation of Nanaimo, who became known as the Coal-Tyee, or Coal Chief, returned with coal, and McKay later went to see the finds and developed the coal fields with the help of the local First Nations.

A more detailed study of the early days of mining at Nanaimo appeared in 1923 (Lutz 2023). Lutz claims that “...the early industries that sparked and sustained European settlement [in British Columbia] depended on indigenous labour.” He points out that Indigenous People were the hunters and trappers that made the Hudson’s Bay viable, mentions their other economic activities in fishing, and forestry. “It was Indigenous People who drew attention to the placer gold that started the series of gold rushes, and who packed the supplies the miners needed... Indigenous People were also the region’s first coal miners.” These facts were little known, as they were neglected in settler narratives, and not included in the Indigenous People’s stories collected by anthropologists.

The author has re-examined primary documents related to Fort Rupert, on Vancouver Island. “All of the coal mined at Fort Rupert — over 3,600 long tons in three years — was mined by Indigenous colliers at Nanaimo, and these miners were followed by Indigenous colliers at Nanaimo who worked alongside White and Chinese miners well into the twentieth century.” Lutz proposes an idea he calls “transformational exchange,” in which “in moving from one culture to another, objects are often transformed by the act of exchange itself.” He brings together information from various sources about the discovery of coal deposits by First Nations in 1835, leading to a desire of HBC to mine them for use in new steam engine ships. The Kwakiutl {Kwakwaka’wakw} people told HBC that “they would not permit us to work the coals as they were valuable to them, but they would labour in the mines themselves and sell us the product of their exertions.” Here, points out Lutz, “we have one of many assertions of indigenous title that have ... largely vanished from the historical record.” For the next decade, reports of the mining and sale of this coal from a near surface bed were documented. This was no trivial pursuit; on one occasion “they brought in upwards of 90 tons in a few days.” The coal was brought to the ships in canoes, and paid for on delivery. “In this manner sixty-two tons (63000 kg), at a cost not exceeding three shillings a ton... were taken on board in less than three days. By 1850 James Douglas, the HBC head, reported that “the labour of about 800 Indians produced 700 tons in a five-month season.” “The industry and perseverance they exhibited ... is truly wonderful and astonished every person who visited that spot.” A May to September mine season was now integrated into the Indigenous year, followed by the salmon runs, then the winter hunting and ceremonials.

The miners each earned a blanket for mining and transporting 2 tons of coal. This profitable arrangement (at least for the Hudson’s Bay Company) was disrupted in 1850, when Douglas brought out a team of British miners. The Kwakiutl protested, asserting their ownership of the land and resource and preventing the immigrant miners from working, threatening death. The miners in turn refused to work — BC’s first strike.

- Brody, Hugh. 2001. *The Other Side of Eden: Hunters, Farmers and the shaping of the world.* Douglas & McIntyre.
- Fraser, Greg N. 2021. *Joseph William McKay: A Métis Business Leader in Colonial British Columbia.* Heritage House.
- Lutz, John Sutton. 2023. *The Indigenous Miners of British Columbia's First Coal Fields.* *British Columbia History* 56(4).

Canadian Membership of INHIGEO and the Geology of Canada, 33-37 (2000-2004)

In Annual Report #56 I published an index of Canadian activity reported in the INHIGEO Newsletter from 1957 to 1999. This list extends the index to the end of 2005.

33. For 2000 (2001)

p. 11 Paper by Sarjeant listed among contents of upcoming Special Publication of Geological Society of London. "As Chimney Sweepers Come to Dust" is "A Brief History of Palynology to 1970."

p. 25-26 Citation for GSA History of Geology Division Award to UK historian Hugh Torrens reports on his visiting professorship at University of Saskatchewan in Saskatoon in 1998.

p. 51 Publications Received includes Dietz, Sarjeant and Mitchell biographies of Walter and Otto Wetzel (ESH 18, 4-50)

p. 53 10 papers by Sarjeant (two with coauthors Mitchell & Wimbledon)

p. 58 recommends a book for attendees at the upcoming INHIGEO conference in Portugal. It is Lockley & Meyer's *Dinosaur Tracks ... of Europe*, in which "The work of William Sarjeant, one of the conference's keynote speakers, received considerable mention ,,,"

p. 61 Canada's report is almost entirely about my own research, mentioning biographical studies in the *Encyclopedia of Paleontology* (but not my authorship of several of them); recent publications on the history of Earth Science in British Columbia; my paper in press on Alberta dinosaurs lost in the Atlantic during World War I, and a paper in preparation for the Portugal INHIGEO meeting on the rivalry between Barnum Brown and C.H. Sternberg in the Alberta bone beds.

I also mention work by Darren Tanke (soon to be an INHIGEO member), and a Canadian published magazine *Dinosaur World*.

34. For 2001 (2002)

p. 3 Minutes of INHIGEO Business Meeting Lisbon 2001. (Canadian members present David Spalding, William Sarjeant.)

p. 5 Geoarchives Progress Report #3 included information from Canadian Geotechnical Society.

p. 10 Papers read included Spalding "Friendly rivalry or bitter feelings? The Canadian dinosaur rush."

p. 11 Sarjeant plenary address "Footprints Before the Flood: Incidents in the Study of British Vertebrate Footprints in 19th-Century Britain."

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- p. 22 Walter Oscar Kupsch: Citation for History of Geology Divisional Award, GSA. (By W.G.E. Caldwell)
- p. 37-38 Review: Completion of Walcott's Biography. William Sarjeant.
- p. 42 Review: The Heat of the Earth, William Sarjeant.
- p. 57 Publications Received includes reference to paper by William Sarjeant. "Can the Decline of the Latin Name be Halted?"
- p. 64 Country Reports Canada. Report by David Spalding. Reports on:
Tanke & Carpenter (Eds) Mesozoic Vertebrate Life: New Research inspired by the Palaeontology of Philip Currie. [Both Tanke and Currie later became INHIGEO members].
Ammonite Tales - reports in British Columbia Paleontological Alliance Newsletter.
Homeless Archival Materials (Lawrence Lambe)
Who began plastering fossil bones? Possible connections between plaster techniques for collecting fossil bones in UK and US.
Mount Logan No Longer? Reports on renaming of Canada's highest mountain (previously Mount Logan after the founder of Canada's Geological Survey and National Museum) to honour a recent prime minister.
- p. 87 Canadian members are Sarjeant, Spalding, and Tinkler.

35. For 2002 (2003)

- p. 6 Business meeting Apologies from Sarjeant & Spalding
- p. 7 Sarjeant nominated as Honorary Senior Member (footnote reports his death)
- Pp 31-33 IN MEMORIA Professor William Anthony Swithin Sarjeant (1935-2002) [D.A.E. Spalding]
- p. 42 INHIGEO in Rio de Janeiro: report p. 45 on Sarjeant paper on palynology
- p. 45 The INHIGEO Meeting in Lisbon and Aveiro: report p. 45-46 on Sarjeant paper on fossil footprints, and p. 50 on Spalding paper on the Canadian dinosaur rush. {error in comment, suggesting that Dinosaur Provincial Park was "the first world heritage site" whereas my qualifying remark was that was the first established mainly for paleontological resources}.
- pp. 66- Country Reports, Canada. Spalding reports briefly on Sarjeant death, work on early dinosaur discoveries. A summer in gold mining centre Dawson, Yukon. Tendaguru revisited.
- p. 90 Canadian members listed Spalding, and Dr Jian-Zhao YIN, a China member resident in Vancouver, Canada.
- p. 98 Honorary Senior Members lists Professor Walter Kupsch, and briefly notes Sarjeant made an honorary member at the Paris meeting on 2002, but died shortly afterwards.

36. For 2003 (2004)

- p.7 Minutes of Business meeting at Dublin conference. Report of death of Walter Kupsch. "New members in Canada were urgently needed. David Spalding had undertaken to attend to that matter."

p. 13 Conference report, Dublin. David Spalding paper. Two Tyrrells cross the Barren Lands of Canada. [Spalding was able to attend only part of the conference, leaving because of a family bereavement after delivering his paper.]

pp. 22-29 OBITUARIES Walter Oscar Kupsch (1919-2003). David Spalding
William Anthony Swithin Sarjeant (1935-2002). Richard Howarth.

Pp. 50-51 BOOK REVIEWS Truth as Strange as Fiction? Anniversary edition of Doyle's The
Lost World. David Spalding

Country Reports (no report from Canada)

p. 94 Canadian members listed Spalding, and Dr Jian-Zhao YIN, a China member resident in
Vancouver, Canada.

37. For 2004 (2005)

p. 17 International Commission on History of Meteorology held in Germany. One Canadian
presenter mentioned (name not given).

p. 18-22 Article: Geological Disasters in Canada: A Brief Overview. Spalding

p. 37 FORTHCOMING MEETINGS Dinosaur Provincial Park Symposium and Royal Tyrrell
Museum 20th Anniversary celebration, September 2005.

p. 55 BOOK REVIEWS Overview of the History of Canadian Geology, ("Dedicated to the Late
William Sarjeant") review by Spalding.

p. 56 Dinosaurs of Tendaguru, brief notice by Spalding

p. 59-60 Forthcoming INHIGEO Proceedings: List of contents of Dublin volume in press, to
include Spalding paper on Tyrrell expedition to the barren lands.

p. 72-76 COUNTRY REPORTS Canada, reported by Ernst Hamm, Gerard Middleton, and David
Spalding.

Ernst Hamm reported on two conferences held in Canada in 2004. These were the Canadian
Society for the History and Philosophy of Science (CSHPS) held in Winnipeg, and the Fifth
British-North American Joint Meeting of three organizations, held in Halifax. Speakers and their
titles are given. Hamm also reported on relevant work by Eric Mills, Brian Shipley, and Rob-Roy
Douglas.

p. 73 Gerard V. Middleton reported on his work on Ontario geologist Joseph Spencer, papers
read at conferences of the Geological Association of Canada and the Geological Society of
America, and a new publication Proud Heritage, bringing together papers previously published in
Geoscience Canada.

p. 74 David Spalding reported briefly on his work as obituarist and literary executor for William
Sarjeant. This includes a list of some 40 obituaries and notices of death, information about the
William A.S. Sarjeant Memorial Lecture, Sarjeant's library and bibliography, and works
unfinished or being updated.

p. 105 Members from Canada listed are Ernst Hamm, Gerard Middleton (both from Ontario) and
David Spalding (B.C.). Two members from Argentina (Louis Buatois and Maria Mangano) and
one from China (Jian-Zhao Yin) are also listed as resident in Canada.

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ALPHABETICAL LIST OF CANADIAN MEMBERS (with newsletter/Annual Record numbers in which they are referred to):

Hamm 37
Kupsch 33,35,36
Middleton 37
Sarjeant 33,34,35,36,37
Spalding 33,34,35,36,37
Tinkler 33,34

Darren H. Tanke

A late report to the INHIGEO main editor last year, extended fieldwork, family illness and family death all conspired to make for a short year of reduced activity on my part. But I was still busy and productive.

However, I do continue working on various history manuscripts related to Albertan vertebrate paleontology. One of these, which received the most attention, is a manuscript (with Tyrrell Museum technician Mark Mitchell) on a history of Cretaceous marine reptile discoveries, research and other trivia in Alberta, Canada. Until the early 2000's, Alberta was a pretty poor place for marine reptile material, but thanks to heavy mining industry, mostly (Early Cretaceous oil sands and Late Cretaceous ammolite), since 2002, 41 major marine reptile skeletons (ichthyosaur, mosasaur, plesiosaur (and four dinosaurs) have been recovered. The manuscript, with figures totals 225 pages as of March, 2025.

I reviewed the manuscript, did some fact-checking/corrections and found a publisher for the memoirs of Mr. Gilles Danis (1945-). Danis was a former fossil preparator, field man and dinosaur skeleton mounter at the now named Canadian Museum of Nature (Ottawa), Provincial Museum of Alberta (Edmonton) and Royal Tyrrell Museum of Palaeontology (Drumheller). With several business partners he then formed and operated a firm in East Coulee, Alberta called **PAST (Prehistoric Animal Structures)** who did fossil preparation, moulding/casting and mounting mostly dinosaur skeletons, some of especially large size like the sauropod *Brachiosaurus*. Part 1 of his memoirs came out in the December, 2024 issue of the Alberta Palaeontological Society Bulletin. Two more parts, completing the trilogy, will appear in the bulletin later this year.

I recently inherited some historical items of Albertan paleontological interest from friends and family of two deceased colleagues:

1. History of WWI German surface raiders, a box full of old papers and other items, some related to the *SMS Möwe*, which in December, 1916 sank the Canadian Pacific freighter *SS Mount Temple*. Among her lost cargo were dinosaur skeletons and other fossils from the Late Cretaceous of today's Dinosaur Provincial Park. The material I received included more details on

the 1916 attack that I can use in a future article. Related to this, two events have recently happened. On March 6, 2025, the German grandson of the doctor on board the *SMS Möwe* contacted me and sent information and pictures including the captured *SS Mount Temple* and some of her captured crew and passengers returning to *Möwe* via lifeboat. A later email contained imagery of ship life aboard *Möwe*.

2. A photo album full of pictures of the 1979 Provincial Museum of Alberta (the paleontology department of which became the Tyrrell Museum of Palaeontology) field season in Dinosaur Provincial Park (DPP). In the late 1950's to mid-1960's, four fossil display houses with *in situ* dinosaur skeletons for public viewing were built. Supplementing these were three long rectangular buildings in the main core area of the public campground. These buildings featured at least 200 mostly Late Cretaceous vertebrate fossils from DPP with explanatory signage. The history of these long extinct buildings and their exhibits has never been recorded and photographs of them and their contents are extremely rare. The photo album I received has numerous photographs of these buildings and their contents and I'm nearly done doing a write up on them, and will likely submit it for publication later this year. The text also includes a bit on early paleontology exhibits at the Calgary Zoo and *in situ* dinosaur skeleton displays at the park. The early park paleontology exhibits share many features with those at the zoo which makes sense- the parks first warden was Roy Fowler, who also had strong ties to the paleontology exhibits at the zoo. The annotated photo album with dates recorded also allows me to update PMA technician Gilles Danis unsubmitted and lost fieldnotes that I found and later transcribed in 2020.

I also received some 35 mm slides, many from 1983 which show the paleontology preparation lab of the Tyrrell Museum of Paleontology at our temporary facilities in downtown Drumheller. These never-before-seen images will be the subject of a small paper.

Another new writing project is long forgotten digitized slides of the uncovering, removal, and erection of the fourth and last dinosaur skeleton display house in Dinosaur Provincial Park, AB. A nice series of images show how this was done. The skeleton was in a tall sandstone ridge and was removed in a single block, dragged down a earth ramp and left covered for the season in 1964. The work was overseen by the parks first warden, Roy Fowler, who was also an amateur paleontologist among many other things. Charles M. Sternberg came to the park in 1965 and prepared the skeleton in its new location, then a cinder block building was erected around it. How any of this work was done was surrounded by mystery, intrigue and, as it turns out, erroneous folklore. Now, thanks to these forgotten images, the true story can be told.

I donated money towards the restoration of the large and dilapidated gravestone of Canadian paleontologist Lawrence M. Lambe (1863-1919). This restoration has largely been done; see Canadian INHIGEO member Jordan Mallon's report above.

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I've transcribed the 1897 fieldnotes of Lawrence M. Lambe who went on a long boating trip from Red Deer, Alberta, Canada down to Saskatchewan Landing, SK, Canada. This was the first dedicated trip to collect Late Cretaceous vertebrate fossils in Alberta. I have a manuscript well along and plan to go to Ottawa to examine the material and other related documents first hand. He came back to Alberta in 1898 and 1901 and I plan to eventually transcribe and write up those as well.

I'm a co-author on a paper just submitted on a horned dinosaur lower leg from DPP. After a fair bit of historical sleuthing George F. Sternberg's 1920 fieldnotes and site photos, I was able to find a ceratopsian skull site of his years ago. The ceratopsian leg site was "close to" this skull site and we found (in 1980) an opened and abandoned ceratopsian quarry with remnants of bone left behind. Who was there, when, and what was collected was unknown for decades. Once the ceratopsian skull site was found, the ceratopsian lower leg site became clear- the 1980 site was just 165 metres away, so "close". It's not a perfect match, but the only one so we think I've again reassociated a mystery quarry to an actual museum specimen. One more solved and hundreds more to go.

I assisted two University of Alberta researchers by doing research and saving newspaper articles for them at an archival newspaper paysite. Their research deals with three people who were involved at a Paleocene plant, insect and vertebrate site at Genesee Bridge near Red Deer, AB.

On March 6, 2025 I gave a talk to about 95 people (in person and via internet) at the Royal Tyrrell Museum on the excavation of the ongoing "Kaskie hadrosaur" in Dinosaur Provincial Park, AB. In the years to come this will become a historically important site as the largest dinosaur dig in Canada and one of the largest globally excavated with small hand tools (small electric jackhammers being the largest). So far 2,531 large wheelbarrow loads of waste rock totalling some 317 US tons has been removed. Final trenching and jacketing of the giant field jacket containing nearly the entire skeleton (<1 metre of tip of tail of a 5.79 metre long animal excepted) and the jacketed block estimated to weigh some 13 US tons will occur in the future, pending resolving some increasingly complex logistical issues. Much of these efforts and upcoming work on the skeleton will be historical firsts for Albertan vertebrate paleontology. I gave a modified talk on the same topic to 100+ participants at the 28th annual meeting of the Alberta Palaeontological Society at Mount Royal University in Calgary, AB on March 15, 2025.

I continue to contribute information and imagery to various online sites regarding paleontology history in the Dinosaur Provincial Park, Drumheller and now Pipestone Creek areas in Alberta.

A minor project I do annually is a small PowerPoint presentation for AMMP (Association for Materials and Methods in Paleontology). This is an "In Memorium" slide show of fossil preparators and their counterparts worldwide who have recently passed away. It is shown at the annual AMMP meeting held in the spring somewhere in Canada or the United States.

Clinton Tippett

I am a retired geologist, formerly with Shell Canada, living in Calgary, Alberta, Canada. In addition to the specific organizational roles that are described below, I have continued to bring my geological background and historical knowledge to bear as a member of the Energy Resources Technical Advisory Committee for the Geoscience British Columbia organization.

Petroleum History Society

My focus on historical geology over the past year continued to be primarily through the Calgary-based P.H.S. I continued as both its President and as a major contributor to its newsletter Archives, back issues of which are accessible through our website at **www.petroleumhistory.ca**. Production of this newsletter involves the creation of articles analysing significant historical events in the industry, summaries of presentations that have been given, news items from the media, interpretive pieces, photographs (current and historical) and excerpts from the publications of related organizations. We encourage inter-organizational co-operation.

The P.H.S. normally sponsored 6-7 luncheons per year plus an Annual Meeting, all held at the Calgary Petroleum Club. Speakers address historical petroleum-related topics, many of which have a significant geological component. We have an annual awards program recognizing the preservation and communication of the history of the Canadian petroleum industry comprising Book of the Year, Article of the Year, Multimedia, Preservation and Lifetime Achievement. We have in the past organized topical field trips and walking tours, both of which have strong geological flavours.

The P.H.S. has a working relationship with the University of Calgary through which our scholarship program is coordinated, although it should be noted that uptake for this financial incentive has been poor in recent years as virtually no research into the history of the petroleum industry is being undertaken in the university. We have links to the Department of History through Professor Petra Dolata, to their School of Public Policy and to the Department of Anthropology and Archeology through Professor Sabrina Peric.

Turner Valley Oilfield Society

During 2024, both the P.H.S. and I continued to cooperate with the T.V.O.S. and in late 2024 I was elected as Chair of the T.V.O.S. The T.V.O.S. is working with the Government of Alberta to develop and enhance an interpretive program, including guided walking tours, at the historic Turner Valley Natural Gas Processing Plant. This now-inactive industrial facility is both a provincial and a federal historic site, dating back to the 1910's. Tours feature all aspects of petroleum exploration, production and processing including the interpretation of the geological context of this formerly prolific oil and gas field in which major discoveries were made in 1914, 1924 and 1936. The T.V.O.S. has a number of ongoing preservation and communication

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initiatives as well as a speaker series and various “story book” documentation for tours of the Turner Valley region as supported by the Calgary Foundation, a major local charity.

Canadian Energy Geoscience Association (formerly Canadian Society of Petroleum Geologists)

I am an Honorary Member of this Society as well as a Past-President (2018). Within the organization I am the Chair of the History and Archives Committee. We continue to plan for the reinvigoration of our historical activities through the establishment of a committee in preparation for our centennial in 2027. This may include interviews with key society participants and other activities, following in the footsteps of our 75th anniversary celebrations in 2002 for which I assisted in the editing of the book “Field Notes” by local historian, David Finch.

I am also the technical editor of our annual geological calendar working to research appropriate comprehensive captions for the photographs that are included.

Finally, I am also a member of the C.E.G.A.’s Medal of Merit Committee that annually recognizes the publication of an important paper on the petroleum geology of Canada.

American Association of Petroleum Geologists

I am a member of the History of Petroleum Geology Special Interest Group of the A.A.P.G.

Petroleum History Institute

I am a life member of this institute. The Pennsylvania-based P.H.I. publishes Oil-Industry History, an annual volume of papers about the petroleum industry, its technical underpinnings, its people and its accomplishments. The P.H.I. holds an annual symposium and field trip which was held in in Canmore, Alberta from May 20-22, 2024. I was one of its Co-Chairs and field trip leader. I also presented a paper on the history of the Jumping Pound Gas Field located near Calgary.

Geological Society of America

I am a member of the History and Philosophy of Geology Division of the G.S.A.

Society of Industrial Archeology

I am a member of this Michigan-based group. The S.I.A. holds a very successful series of virtual historical on-line seminars as well as continuing the publication of their journal and holding their annual meeting.

Alberta Palaeontological Society

I am a member of this society and have made several presentations to them. Activities include monthly presentations on matters related to palaeontology including key locales, controversies and recent developments.

Burgess Shale Geoscience Foundation

I was formerly on the Board of this Field, British Columbia-based organization that primarily runs hikes to the Walcott and Mount Stephen quarries to examine fossil Cambrian fauna. Most recently I was involved in the preservation of some of their instructional geological materials.

Research of Historical Interest

I have initiated a study of the collaborative carbonate research done in the 1960's at Coral Gables in Miami, Florida by well-known ex-Shell sedimentologist Robert Ginsberg and Arthur Rupp, a Canadian carbonate stratigrapher working for Shell Canada. The technical records of this joint research, formerly the property of Mr. Rupp, were previously housed in the storage facility of Shell Canada in Calgary. Access was finally granted to me in mid-2022. Investigations continue.

Canada INHIGEO annual report (2024-2025) compiled and edited by Darren H. Tanke, April 13, 2025.

Jian Zhao (Jet/Jim) Yin

The following are the four articles I have published on the history of geology in recent two years for your information.

1. Yin, JZ. 2024g. My impressions after reading the book *Less Words but Earnestly Practice-- My Father Chuangan Zhang*. *Naturalis Scientias*, 1 (2): 186-196. DOI: <https://doi.org/10.62252/NSS.2024.1014>.
2. Yin, JZ. 2024j. A complete chronicle of Chia Yung Hsieh (C. Y. Hsieh) and his life and works. *Naturalis Scientias*, 1 (3): 260-285. DOI: <https://doi.org/10.62252/NSS.2024.1019>.
3. Yin, JZ. 2024m. Finally, the complete eight-volume *Collected Works of Chia Yung Hsieh* is published. *Naturalis Scientias*, 1 (4): 345-363. DOI: <https://doi.org/10.62252/NSS.2024.1024>.
4. Yin, JZ. 2025. No. 9 Bingmasi, Beijing, the cradle and source of modern science and technology in China —the monograph *No. 9 Bingmasi: A Historical Study of the Former Site of the Geological Survey of China* was published. *Naturalis Scientias*, 2 (1): 462-493. DOI: <https://doi.org/10.62252/NSS.2025.1030>.

CHINA

Report submitted by Hu Weiwei, China University of Geosciences Beijing, and Sun Chengsheng, Department of the History of Science, Tsinghua University.

In 2024, the Chinese Commission of the History of Geology (CCHG) continued its active engagement in academic and public activities, both domestically and internationally, dedicating to the advancement of history of geosciences as a discipline in the new era.

On 31 October 2024, the 32nd CCHG Annual Conference was convened at the China University of Geosciences Beijing, under the theme “*Prospects for the Study of Geological History in the New Era.*” The event featured keynote presentations by Professor Zhang Chuan and other sixteen invited experts, and was attended by 65 participants (Figure 1). A special exhibition—*Portrayal of the Scientist’s Spirit: Commemorating the 120th Anniversary of Prof. Huang Jiqing’s (1904-1995) Birth*, was also unveiled during the conference (Figure 2).



Figure 1. The 32nd CCHG Annual Conference



Figure 2. Participants viewing the exhibition at the 32nd CCHG Annual Conference



Figure 3. Exhibition on Prof. Yuan Fuli

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In celebration of the 55th Earth Day on 22 April 2024, under the resonant theme “*Cherish the Earth, Harmony between Humanity and Nature,*” the Geological Society of China hosted a public science outreach event. The CCHG proudly highlighted the achievements of renowned geologist Professor Yuan Fuli (1893-1987) in this special feature. An exhibition including 20 vivid display boards was prepared, and 60 sets of *Yuan Fuli Memorial Anthology*, the *Geological Education* magazine containing articles in honor of Yuan Fuli, along with custom-designed bookmarks and notebooks were also distributed. Throughout the event, Vice President Professor Chen Baoguo, Secretary-General Dr. Yuan Xuemei, and Deputy Secretary-General Dr. Hu Weiwei provided informative on-site explanation and engaged enthusiastically with the attending public (Figure 3).



Figure 4. Prof. Dai Jinye was giving his lecture

The CCHG also organized lecture serials at China University of Geosciences Beijing. For example, on 13 May, 2024, Vice President Professor Chen Baoguo Chen gave a lecture entitled “*The Early Development of Geological Science in China*”, and on 22 May 2024, Vice President Professor Dai Jianye presented a lecture entitled “*A Brief History of the Petroleum Industry and Mining in China*” (Figure 4), both of which were attracted quite a few students and Commission members.

In this year, Dr. Hu Weiwei participated in a number of national and international conferences. From August 24 to September 2, 2024, she participated in the 37th International Geological Congress and the 49th INHIGEO Symposium in Busan, South Korea, hosted by the International Union of Geological Sciences (IUGS). On August 28, she attended the INHIGEO working meeting, contributing to discussions on the history of geosciences in China.

On 16 October 2024, Dr. Hu delivered a keynote lecture titled “*The Establishment of Northwestern Geological Institutions During the Anti-Japanese War*” at the Earth Sciences and Culture Symposium 2024, hosted by the China Geological Survey (Figure 5), and she presented a keynote report “*An Experiment in Integrating Science Education and Popularization into Graduate Courses*” on the 2024 National Geoscience Popularization Seminar, organized by the Geological Society of China on October 24-25.



Figure 5. Dr. Hu was delivering a keynote lecture



Figure 6. The 7th National Symposium on Teaching the History of Science and Technology

From 29 November to 2 December 2024, Dr. Weiwei Hu attended the Annual Meeting of the Chinese Society for the History of Science and Technology. Earlier in the year, from 31 July to 3 August 2024, she participated in the 7th National Symposium on Teaching the History of Science and Technology, organized by the Chinese Society for the History of Science and Technology (Figure 6), in which she gave a talk on the history of geosciences in postgraduate curriculum.

Selected Publications of the Chinese Members in 2024

- Hu, Weiwei, et al. "Solving the urgent situation: Analysis of local mineral resources survey institutions during the first half of the 20th Century." *Geological Review*, 2024, 70 (6): 2443–2449. (in Chinese)
- Jiao, Qi, et al. "Analysis of the Historical Evolution, Leadership and Long-term Mechanism of Geological Culture." *Chinese Geological Education*, 2024, (4): 7–11. (in Chinese)
- Jiao, Qi, et al. "From the establishment of Geological Society of China to see the contribution of youth." *Geological Review*, 2024, 70 (1): 399–403. (in Chinese)
- Liu, Chao. Book Review: *Humanity Earth: The history of human understanding of the Earth. Episodes*, 2023, 46(2): 337-339.

- Liu, Liang. *Western Concern and Research on China's Forest Issues in Early Modern Times*. Beijing: Chinese Environmental Press, 2024. (in Chinese)
- Sun, Chengsheng. "'Awakening' Fossils in China: International Efforts in Publishing *Palaeontologia Sinica*." *Earth Sciences History*, 2024, 43 (2): 256–271.
- Sun, Chengsheng. "Zhoukoudian: The Birthplace of Paleoanthropology and the Stimulus for Paleolithic Archeology in China." in R. M. Clary, E.J. Pyle and W.M. Andrews, eds., *Geology's Significant Sites and their Contributions to Geoheritage*, London: Geological Society Special Publications 543, 2024, pp 343–356.
- Sun, Chengsheng. *Amadeus W. Grabau and Palaeontology in China*. Beijing: Science Press, 2024. (in English and in Chinese)
- Yang, Lijuan. "East Asian Atmospheric Circulation." in C. L. Bai, eds., *A Concise History of Science and Technology in the People's Republic of China*, Beijing: Science Press, 2023, pp. 553–561. (in Chinese)
- Yang, Lijuan. "Huang Jiqing: Breaking Theoretical Constraints to Remove China's 'Oil-Poor' Label." *Science China Daily*, Print Edition, April 12, 2024. (in Chinese)
- Yang, Lijuan. "Sixty years' prospecting for petroleum: Huang Jiqing and the surveys and exploration of petroleum and natural gas in Chin." *Acta Geologica Sinica*, 2024, 98 (3): 647–652. (in Chinese)
- Yang, Lijuan. "The Chinese School of Geotectonics." in C. L. Bai, eds., *A Concise History of Science and Technology in the People's Republic of China*, Beijing: Science Press, 2023, pp. 545–552. (in Chinese)

The Czech Republic

Jana Bruthansová, Paleontological Department. National Museum, Prague, Czech Republic.

During the years 2023-2025 several articles and smaller memoirs on Czech geologists and paleontologists were published.

Bruthansová, J. 2023. Vzpomínka na paleontologa-odbojáře. Paměť a dějiny, 1, 121-123; <https://www.ustrcr.cz/wp-content/uploads/2023/06/Vzpominka-na-paleontologa-odbojare.pdf>.

In 2023, a Czech magazine focused on 20th century history published an article commemorating the resistance activities of Dr. Jaroslav Šulc, who was executed by the Nazis in 1943 (Bruthansová 2023, Vzpomínka na paleontologa odbojáře,). This year, in addition to lectures focused on the resistance activities of Jaroslav Šulc and the anti-German organization Obrana Národa (Defence of the Nation) itself, the National Museum Society also organized a collection to realize a memorial plaque to be placed on Jaroslav Šulc's birthplace in Praha-Dejvice.



Left: Ceremonial unveiling and dedication of a memorial plaque at the birthplace of Dr. Jaroslav Šulc, May 2023. The plaque reads: Paleontologist RNDr. Jaroslav Šulc was arrested in the garden of this house on 12 April 1940. He was executed for resistance activities in Berlin on 20 May 1943 at the age of 39. He was interrogated many times and stood up with honour. Photo: Archive of the Paleontology Department, National Museum, Prague.

The name of Dr Jaroslav Šulc also appeared in 2023 and 2025 among the personalities nominated by the Senate of the Czech Republic for the award for bravery (in memoriam) on the occasion of the national holiday of 28 October. We will know in the autumn whether the President of the Czech Republic will choose him among the honorees.



Dr. Jaroslav Šulc (21.10. 1903-20.5. 1943)
on the garden of his house, probably spring 1940.
Photo: Archive of the Vulterin family.

Bruthansová, J. and Doláková, N. 2024. Říkali nám Dvojčata! Vzpomínky paleobotaničky Míly Boháčové na její celoživotní přítelkyni nejen z oboru Magdalénu Konzalovou. *Živa*, 3. See <https://ziva.avcr.cz/2024-3/rikali-nam-dvojcata-vzpominky-paleobotanicky-mily-bohacove-na-jeji-celozivotni-pritelkyni-nejen-z-oboru-magdalenu-konzalovou.html>.



The Czech paleontologist Dr. Magdalena Konzalová (1935-2022) was remembered by her close friend and collaborator Dr. Míla Boháčová (Bruthansová and Nela Doláková, 2024) in the Czech-language magazine *Živa*. Magdalena Konzalová worked in paleobotany, especially in palynology.

Left: Dr. Magdaléna Konzalová (16.2. 1935 - 14.3. 2022).
Photo: Archive of the Paleontology Department, National Museum, Prague.

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Bruthansová, J. and Kraft, P. 2024. Rokycanský rodák, paleontolog, učitel a sběratel v časopise Nature. *Journal of the National Museum (Prague), Natural History Series*. Praha: Národní muzeum, 2024, **193**(1), 85-96. DOI: <https://doi.org/10.37520/jnmpnhs.2024.007>. ISSN 1802-6842 (print), 1802-6850 (electronic). See <https://publikace.nm.cz/periodicke-publikace/journal-of-the-national-museum-prague-natural-history-series/193-1/rokycansky-rodak-paleontolog-ucitel-a-sberatel-v-casopise-nature>.

Bruthansová and Kraft (2024) published a study in Czech with an English abstract on Karel Holub, a Czech collector and author of several publications on the Czech Ordovician. Karel Holub was an important personality, but unfortunately, due to his very poor economic background, he was unable to fulfill his great dream of becoming a professional palaeontologist. Instead, he became a rural teacher and died of tuberculosis shortly after the end of the First World War and the declaration of the independent Czechoslovak Republic in 1918 at the age of 30.



Karel Holub (28.4. 1888 - 14.11. 1918). Photo of Karel Holub, deposited in: Archive Podještědské muzeum, fond Rodáci, karton 13, složka Karel Holub.

Bruthansová, J. 2025. Loyalty in the first place, Jaroslav Šulc, Czech paleontologist (1903-1943). *Earth Sciences History*, 1-15. (accepted)

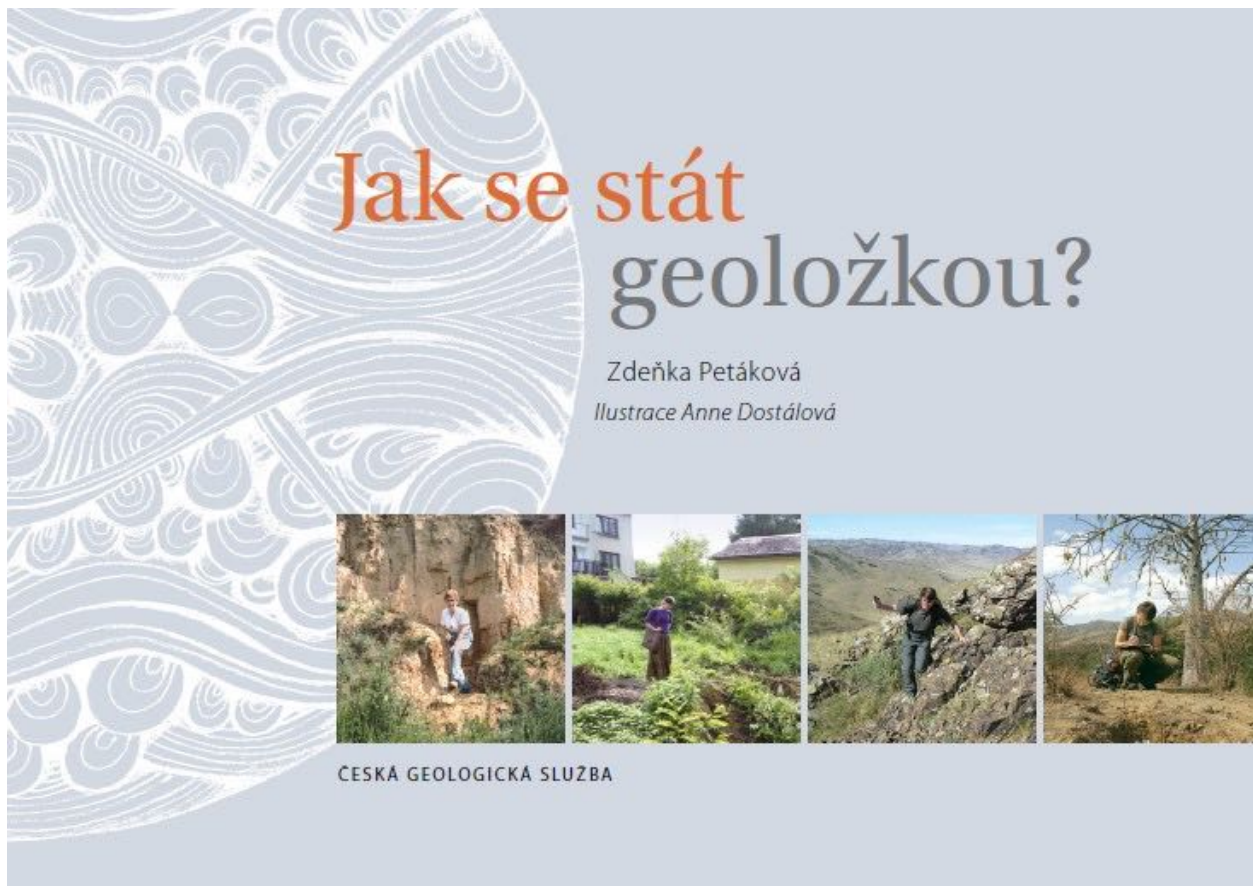
The autumn issue of the *Earth Sciences History* will contain a comprehensive article on the life of Jaroslav Šulc, his scientific activities and his involvement in the anti-Nazi resistance (Bruthansová 2025).

Zdeňka Petáková

The book *Women in Geology – How to Become a Geologist?* (Jak se stát geoložkou? Petáková Z., 2024, Czech Geological Survey publishing house, in Czech <https://eshop.geology.cz/jak-se-stat-geolozkou/>) contains the answers of twenty-five women geoscientists to the following three questions:

1. What led you to geology – what motivated you?
2. What professional achievements do you value most? What personal ones?
3. What would you say to women interested in studying geology?

Brief personal profiles of the respondents and photos are included. English version of the book will be printed in 2025.

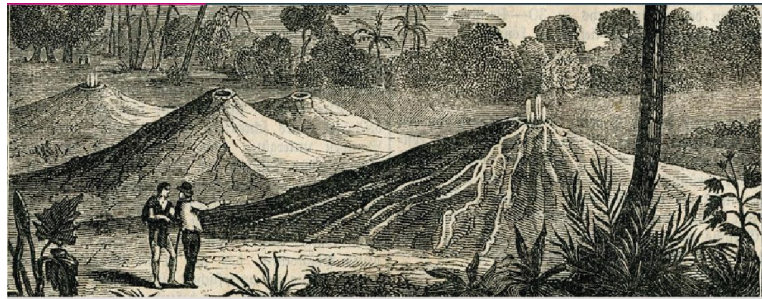


Ecuador

Report submitted by Nicolás Cuvi.

Some activities were carried out jointly by Nicolás Cuvi (Ecuador), Delfín Viera (Venezuela), and Carlos Acosta Rizo (Colombia/Spain).

- A keynote lecture entitled “Geology in the northern Andes in the 19th century: networks and circulation of knowledge”, given in FLACSO Ecuador (Quito), June 14, 2024. *See illustration, right.*



El Departamento de Antropología, Historia y Humanidades
de FLACSO Ecuador invita a la

CONFERENCIA

**La geología en los Andes septentrionales del siglo XIX:
redes y circulación del conocimiento***

con la participación de:



Nicolás Cuvi

Profesor investigador de FLACSO Ecuador

Miembro asociado de la International Commission on the History of Geological Sciences

Miembro de la Academia de Ciencias del Ecuador

- Results of the research on historical geo-knowledge in the tropical Andes were presented at two international events: “Circulating Knowledge: 20 Years On” (Halifax, Canada), and “XVIII Encuentro de Historia de la Ciencia y de la Técnica” in Olot, Spain.
- The three researchers will publish the article “Unfolding the Networks and Circulation of Geological Knowledge in the 19th Century Northern Andes” in *Earth Sciences History* (44/2, 2025).



In addition, Nicolás Cuvi gave the keynote lecture “Geological Explorations of the Cotopaxi Volcano in the 19th century” at the First National History Congress, Cotopaxi Chapter (photo above). The lecture will be published in the proceedings of the event.

FRANCE

Report submitted by Gaston Godard, Secretary of Cofrhigéo.

Cofrhigéo meetings

In 2024, the French Committee for the History of Geology (Cofrhigéo) met three times.

The meeting of 13 March 2024 was devoted to the Franco-American geologist Jules Marcou (1824-1898).

Its recording is available at:

<https://www.youtube.com/playlist?list=PLrHyJcVtILnmdjnSzycsV0wbeRDe3LCPC>

Daniel RAICHVARG: Sur les traces de Jules Marcou (1824-1898), trappeur-géologue [In the footsteps of Jules Marcou (1824-1898), trapper-geologist].

Philippe ROSSI: La carte géologique de la Terre de Jules Marcou au regard de la carte du monde d'Ami Boué [Jules Marcou's geological map of the Earth compared to Ami Boué's map of the world].

Philippe GRANDCHAMP: Marcou, électron libre de la géologie française [Marcou, a free spirit of French geology].

Mary SEARS: Marcou in America: Exploration and Impact.

Solen LE GARDIEN: Présentation de cartes et écrits de Jules Marcou [presentation of maps and writings by Jules Marcou].

The meeting of 12 June 2024 was devoted to the history of the Maghreb geology, in particular Algerian geology. Its recording is available at:

<https://www.youtube.com/playlist?list=PLrHyJcVtILnkkvtrjSQcESy5W66q4aNua>

Khallaf EL GHALBI: Les séismes selon les sources médiévales arabo-musulmanes [Earthquakes according to medieval Arab-Muslim sources].

Gaston GODARD: Les débuts de l'exploration géologique de l'Algérie vers 1850: Henri Fournel et Louis Ducouret [The beginnings of geological exploration in Algeria around 1850: Henri Fournel and Louis Ducouret].

Moulley Charaf CHABOU et Gaston GODARD: Présentation de la bibliographie de Philippe Morin [The analytical bibliography of the Maghreb geology by Philippe Morin].

Djelloul BELHAI: Histoire de la géologie de l'Algérie [History of the geology of Algeria].

Moulley Charaf CHABOU: L'évolution des idées sur le Trias de type « germanique » d'Afrique du Nord [The evolution of ideas on the "Germanic" Triassic of North Africa].

Rémi LEPRÊTRE: Le « Grand Pic » de l'Ouarsenis : histoire d'un exemple d'halocinèse à grande échelle dans le Tell occidental (N. Algérie) [The "Great Peak" of Ouarsenis: History of an example of large-scale halokinesis in the western Tell (Northern Algeria)].

André MICHARD: Penetration of modern views in the French works on Morocco-Algeria between 1965 and 1985.

Ellenberger Prize awarded to Philippe TAQUET.

At the meeting of 11 December 2024, we awarded the Ellenberger Prize to Philippe Taquet and we paid tribute to two great figures of the Cofrhigéo who died in 2024, Gabriel Gohau and Jacques Touret. The recording is available at:

<https://www.youtube.com/playlist?list=PLrHyJcVtILnmIDkjFrkn1LLZ0XMz4z9J>

Stéphane TIRARD: Gabriel Gohau, épistémologue [Gabriel Gohau, epistemologist].

Denise ORANGE: Gabriel Gohau: l'histoire des sciences peut-elle être un instrument de recherche didactique? [Gabriel Gohau: Can the history of science be a tool for educational research?].

Pierre SAVATON: Gabriel Gohau : histoire de la géologie [Gabriel Gohau, historian of geology].

Salomon KROONENBERG: Jacques Touret, Hermann Vogelsang and fluid inclusions.

Michel CUNEY: Jacques Touret, l'homme des fluides profonds [Jacques Touret, the man of deep fluids].

Symposium on the mineralogist Alfred Lacroix (1863-1968), 18-19 september 2024

Organised by the *Muséum national d'Histoire naturelle*, *Université Pierre-et-Marie Curie*, *Cofrhigéo*, *SGF*, and *SFMC*, this 2-day symposium was devoted to the life and work of the French mineralogist and petrologist Alfred Lacroix. Its program and recording can be viewed at: <https://impmc.sorbonne-universite.fr/fr/evenements/manifestations/journees-alfred-lacroix-museum-national-d-histoire-naturelle-18-19-septembre-2024.html#:~:text=Journ%C3%A9es%20Alfred%20Lacroix%20%2D%20Mus%C3%A9um%20national,des%20mat%C3%A9riaux%20et%20de%20cosmochimie>

Publications of the Cofrhigéo

The Cofrhigéo publishes an annual periodical, *Travaux du Comité français d'Histoire de la Géologie* (ISSN 1156-2919), which is available online at the following addresses:

<https://hal.archives-ouvertes.fr/COFRHIGEO/browse/period>

Other publications

In addition to the contributions to the previous periodical, several studies by Cofrhigéo's members were published in 2024 (non-exhaustive list):

COHEN C., « le paradoxe de l'art ». *Entretien in Perspective, actualité en histoire de l'art*, INHA, 2024-1, pp. 39-63.

COHEN C., « Silences de la Préhistoire », *album Silences, dirigé par R. Labrusse*, l'Ecarquillé, janvier 2024.

COHEN C., « L'affaire Glozel : cent ans de fraude archéologique » *Pour la science*, N°566 27 novembre 2024, pp. 72-77.

COHEN C., « Quelques remarques sur Lespugue, poème de Robert Ganzo », *Europe* numéro 1145–1146, septembre-octobre 2024.

COHEN C., « L'abri de Laussel et les âges de la femme au paléolithique », *Sigila* 54, automne-hiver 2024, « les Ages », pp. 129-135.

COUNTRY REPORTS (2024)

- COHEN C., « La Préhistoire des inégalités au prisme du genre », Entretien avec Rémi Hadad et Jean-Baptiste Vuillerod, Tracés, *Revue des sciences humaines*, n° 45, « l'origine des inégalités : résurgences et réappropriations d'un grand récit », pp. 103-125.
- DREYER F., « L'Anthropocène », *La Science au présent, Encyclopædia Universalis*, Paris, pp. 65-69.
- DREYER F., « Jules Marcou, géologue du monde », *La Science au présent, Encyclopædia Universalis*, Paris, pp. 107-112.
- GUY B., *Mente et Malleo*, Librairie Publibook, 278 p.
- LE CALLONNEC L., BERGERAT F., LE VIGOUROUX P., GELY J.-P., DREYER F., OBERT D., « Du premier métro parisien au Grand Paris Express. Petite histoire de la géologie et grands travaux », *Bulletin d'information des géologues du Bassin de Paris*, 61 (3-4), pp. 4-85.
- LE VIGOUROUX P., « A European Support to Continental Drift: Emile Argand and His "Tectonics of Asia" », *IUGS E-Bulletin, contributions to the INHIGEO Anniversary Series*, August 2024, 208, 6 p. (<https://www.inhigeo.com/anniversaries.html>).
- PLUNDER A., GODARD G., « Pentti Eelis Eskola died 60 years ago: Metamorphic facies, the birth of a concept », *IUGS E-Bulletin, contributions to the INHIGEO Anniversary Series*, November 2024, 211, 5 p. (<https://www.inhigeo.com/anniversaries.html>).
- SAVATON P., « La contribution des chaires de "géologie" des facultés des sciences au développement et à la diffusion des sciences géologiques au XIX^e siècle », *Ann. Soc. Géol. Nord* (2e sér.) 31, pp. 153-160. (<https://www.peren-revues.fr/Annales-sgn/2476>).
- SAVATON P., « Les travaux d'histoire de la géologie de Michel Durand-Delga », In : Claude Majesté-Menjoulas & Philippe Fauré (coord.), *Michel Durand-Delga. L'homme, le géologue, l'historien. Hommage au géologue natif de Gaillac*. Actes du Colloque tenu à Gaillac à l'occasion du centenaire de sa naissance, *Carnets natures*, 2024, Vol. H. S., Editions de l'ASNAT, p.53-61. (<https://carnetsnatures.fr/volumes-horsserie/M.Durand-Delga-Colloque-Gaillac.pdf>).

Other activities (non-exhaustive list)

Exhibition: LE CALLONNEC L., BERGERAT F., LE VIGOUROUX P., GELY J.-P., DREYER F., OBERT D. and LE GARDIEN S. organised an exhibition entitled « Du premier métro parisien au Grand Paris Express. Petite histoire de la géologie et grands travaux », from December 2024 to June 2025 at the *Société géologique de France* (Paris).

Seminars by Claudine COHEN: « *Hybrides, hybridités, hybridations* », EHESS, with Rémi Labrusse; « *Arts paléolithiques : pour une approche anthropologique* » EHESS, with Romain Pigeaud; « *Anthropocène et Histoire* », Biogéosciences Laboratory, EPHE-CNRS-Université de Dijon, June 2024.

GERMANY

Report submitted by Peter Schimkat (on behalf of the German members of INHIGEO)

I am afraid that in comparison to previous years, this will be a comparatively short national annual report. And an incomplete one as well. The responsibility for that is mine. This said, I should be able to retrieve the information missing here, and will include it one year from hence. Possibly in the form of a joint version covering both 2024 and 2025. On a general level, not much of note would have been needed to be reported anyway. The overall situation in our field remained similar to the one described in the 2023 report. There hasn't been a marked influx adding to the active part of our small community in recent years. Wider interest in our activities remains extant, sometimes in a surprisingly strong manner. It doesn't correspond with a lively professional environment though. In that respect, the current situation within history of science as an academic entity in Germany is particularly worrying: as far as historical research goes, just about the entire realm of the history of individual scientific disciplines (not only earth sciences) basically has been abandoned by its practitioners.

Publications

Unlike in immediately previous years, no German author contributed to the contents of (Volume 44 of) *Earth Sciences History: Journal of the History of Earth Sciences Society* in 2024. Next to INHIGEO member Martina Kölbl-Ebert, a number of other German experts were involved with the 2nd IUGS Geological Heritage Sites Book, released in 2024 (see below), as well. I currently am able to report the following papers by German INHIGEO members published in 2024:

Martina Kölbl-Ebert

- “A HoG’s Life,” *GeoHistories: The Magazine of the History of Geology Group 78* (2024), pp. 33-34.
- “Scheibenberg Lava Flow,” IUGS (2024): *The Second 100 IUGS Geological Heritage Sites* (2024), pp. 36-37 (= Site 108), available online via the free download of this collection on <https://iugs-geoheritage.org/publications-dl/IUGS-SECOND-100-SITES-WEB-BOOK.pdf>.
- “Maruia Falls, New Zealand,” IUGS (2024): *The Second 100 IUGS Geological Heritage Sites* (2024), pp. 42-43 (= Site 111), also available online via the free download of this collection on <https://iugs-geoheritage.org/publications-dl/IUGS-SECOND-100-SITES-WEB-BOOK.pdf>.
- “Karl Caesar von Leonhard Introduced the Term ‘Loess,’” *IUGS E-Bulletin 207* (2024), available online via https://www.iugs.org/_files/ugd/f1fc07_1aef7d62a774096b7c043118744b114.pdf.
- “Edinger, Tilly,” *NDB* (= *Neue Deutsche Bibliographie*); online, available via <https://www.deutsche-biographie.de/dbo035085.html#dbocontent>.

Cornelia Lüdecke

- Mit Wilhelm Filchner in das Weddellmeer: Paul Björvigs Tagebuch von der deutschen Antarktischen Expedition 1911-1912 = Berichte zur Polar- und Meeresforschung / Reports on

COUNTRY REPORTS (2024)

Polar and Marine Research 783 (Bremerhaven: Alfred Wegener Institute for Polar and Marine Research, 2024), translated from the Norwegian by Volkert Gazert (with Mary R. Tahan) *Stranded at the Top of the World: A Story of Exploration and Heroic Rescue in the Arctic* (Cham: Springer Nature Switzerland AG, 2024).

- Der Hundertjährige Kalender in: *DMG-Mitteilungen 2* (2024), pp. 24-27.
- Zum 50. Todestag von Fritz Loewe (1895-1974) in: *Polarforschung: Journal of the German Society for Polar Research 92* (2024), pp. 15-24, available online via <https://doi.org/10.5194/polr-92-15-2024>.
- Antarktis - Der sechste Kontinent: Die Erschließung der “terra australis incognita” in: *Wissenschaft und Frieden 42* (2024), No. 1, pp. 25-28.

Conferences

This year’s INHIGEO Symposium was incorporated within the 37th International Geological Congress at Busan (25.-31.8.2024) and included the following talks:

Martina Kölbl-Ebert:

- “Maruia Falls, New Zealand: A Historical Geosite for the Discovery of the Inner Earth Core.”
- “Geological Scenes from Two Marriages: Mary Elizabeth Lyell and Emma Darwin Compared.”
- In addition, at that conference, Martina co-convoked four sessions (see Additional Information from Individual Members).

Cornelia Lüdecke

- “Pioniere und deren Nachfolger: Von Fridtjof Nansen bis Alfred Wegener,” at: **Eichhofen bei Undorf**, Workshop “Einführung in die Geschichte der Erforschung der Polarregionen / Introduction to the History of the Exploration of the Polar Regions”, Haus Werdenfels, Cusanuswerk, 22.-23.8.2024 (22.8.2024).
- (with Erik Tammiksaar) “Vom gefrorenen Ozean zum Kontinent: Über die Entdeckung der Antarktis,” at: **Rauris**, 29th International Polar Conference, 16.-20.9.2024 (16.9.2024).

Universities

INHIGEO member **Martina Kölbl-Ebert** continued her teaching on the history of the earth sciences at the Department für Geo- und Umweltwissenschaften, Ludwig-Maximilians-Universität München, lecturing on

- Geschichte der Geowissenschaften Teil 2 (Sommersemester 2024)
- Methodenseminar zur Geschichte der Naturwissenschaften (Sommersemester 2024 & Wintersemester 2024/25)
- Geschichte der Geowissenschaften Teil 1 (Wintersemester 2024/25)

Public Lectures

Martina Kölbl-Ebert

- “Deutsche Geologie” - Geologie im Nationalsozialismus at: **Regensburg**, Kolloquium Wissenschaftsgeschichte, Universität Regensburg (22.5.2024).

- “German Geology” - Geology in Germany 1933-1945 at: **London**, History of Geology Group, The Geological Society (21.11.2024), online talk.

Cornelia Lüdecke

- “Von Grönland in die Antarktis: Über den Polarforscher Erich von Drygalski at: **München**, Haus des Ostens (4.7.2024).
- Mit der “Norge” zum Nordpol: Wie Roald Amundsen sein Lebensziel erreichte at: **Bremerhaven**, Alfred-Wegener-Institut (11.7.2024).
- Harald Walter Zur Geschichte der Paläontologie an der Bergakademie Freiberg at: **Freiberg**, Freiburger Altertumsverein (20.3.2024).

Prizes

- In 2024, the Geological Society, London, awarded their annual Sue Tyler Friedman Medal for Distinguished Contributions to History of Geoscience to **Martina Kölbl-Ebert**.
- On 16 September 2024, **Cornelia Lüdecke** was presented with the Karl Weyprecht Medal, awarded to honour her 33 years of service as head of the History of the Polar Research Working Group in the German Society for Polar Research as well as for her impressive work on the Scientific Advisory Board of that society.

Additional Information from Individual Members

At the Busan meeting **Martina Kölbl-Ebert** co-convened four sessions: one with fellow Irish INHIGEO member Kathleen Histon (Session T40-1 = History of Women in the Geological Sciences: Trailblazers, Leaders and Those in the Shadows) and three with Italian INHIGEO member Ezio Vaccari (Session T27-3 = Geosites and Georoutes in the History of Geological Sciences / Sessions T40-3+T40-4 = General Contributions to the History of Geological Sciences). The aforementioned (see: Conferences) workshop “Introduction to the History of the Exploration of the Polar Regions” had been organized by **Cornelia Lüdecke**.

HUNGARY

Report submitted by István Viczián and Éva Zsadányi.

Lectures in scientific sessions

Lectures presented in the sessions of the Section History of Science of the Hungarian Geological Society, 2024:

January 15.

Hála, J.: Mosaic pieces from the period of foundation of the Geological Society (1848). – Extended version of the lecture held on the jubilee meeting.

February 19.

Breznayánszky, K., Dobos, I.: In our youth, we worked in Cuba.

April 22.

Memory of the bauxite meetings organised by Álmos Tóth (former president of the History of Science Section) on Saint George Days.

October 21.

Thamó-Bozsó, E.: Zsófia Torma, the first woman archaeologist, one of the first woman members of the Hungarian Geological Society, deceased 125 years ago.

Kordos, L.: Personal memories of former geologists (with illustrations).

November 18.

Papp, P.: Professional career of János Klespitz, on the occasion of his 90th birthday.

December 2.

Hála, J.: Masters of stone, quarry workers, stone cutters and their products from Transdanubia to Székely Land.

Síkhegyi, F.: Rationality of events. – Personal connections to the historical geoscientific collection of the Pannonhalma Archabbey.

October 14. Memorial Session of the Geological Society on the 90th anniversary of birth of the geologist Endre Dudich:

Komlóssy, Gy.: Biography of Endre Dudich.

Esperanto Association: Endre Dudich, the esperantist.

Kordos, L.: Recent results and applications of geonomy.

Tóth, K.: Endre Dudich, chef of the laboratory.

Mindszenty, A.: Jurassic bauxites of Western Tethys.

Kercsmár, Zs.: Recent results of Eocene studies.

XVIIth Conference on History of Science and Technology, organised by the Hungarian Technical Scientific Society of Transylvania – EMT, Nagyvárad (Carei), Romania, 2024.

The extended abstracts of the meeting were published in Hungarian language, with short abstracts in English, in the following volume (available online):

XVII. Tudomány- és Technikatörténeti Konferencia, Nagyvárad, 2024. június 27-30.

(XVIIth Conference on History of Science and Technology, organised by the Hungarian Technical Scientific Society of Transylvania – EMT, Carei, Romania, June 27-30, 2024.)
<https://ojs.emt.ro/index.php/ttk>

In the abstract volume the following lectures were related to the history of geo-sciences:

Both, M. G.: A földnek esmertetését tanító könyv 1781-ből Pántzél Pál nyomán (A book of teaching intent about the Earth by Pál Pántzél from 1781). 2-5.

Csorba, F. L.: Csontváry és a természettudományok (Csontváry and sciences). 7-11.

Hevesi, A.: Két rokon kőzet, a dácit-és a riolittufa változatai és az ezeken, néhol ezekben és ezekből lévő népesség immár 1500 éves kapcsolatai a Bükkalján (The 1500-year relationship between the 13-21 million-year-old dacite and rhyolite tuffs of Bükkalja and its inhabitants living on them). 22-34.

Miholcsa, Gy.: A Hold és meghódítása (The Moon and its conquest – history of science fiction). 66-71.

Pápay, L.: Az ajkai barnaköszének jellemzői és bányászatának veszélyei (The characteristics of Ajka (W Hungary) brown coals, and the dangers of their mining). 83-92.

Viczián, I., Pathy-Nagy, G.: Pathy Nagy Sámuel, a jénai Ásványtani Társaság magyar titkára (Sámuel Pathy Nagy, Hungarian Secretary of the Jena Mineralogical Society). 110-115.

Wanek, F.: Egy rétegtani egység, a pannóniai emelet értelmezésének viszontagságai (The difficulties of interpreting the stratigraphic unit pannonian) 116-121.

Publications on history of geo-sciences in 2024

(in addition to the abstracts of the conference held in Carei)

Breznayánszky K. 2024: Kliburszkyné Vogl Mária. – *In* Hay D., Palasik M., Shadt M. (szerk.): *Nők a tudomány fellegvárában, Kutatói életutak a Magyar Tudományos Akadémián 1949-2021*. Akadémiai Kiadó, Budapest, I-II. kötet, 1133-1138.

Breznayánszky K. 2024: Lóczy Lajos geográfusi szemlélete geológiai munkáiban. – *Földrajzi Közlemények*, 148. 3. 305-308.

Csath B. 2024: Zsigmondy Vilmos, a Kárpát-medence földtani felépítésének és nyersanyag-kincseinek sokoldalú kutatója. – *Földtani Közöny* 154, 1, 73-80.

Galács A. 2024: Milyen volt geológiát tanulni a budapesti egyetemen az 1960-as években? – *Földtani Közöny* 154, 1, 81-94.

COUNTRY REPORTS (2024)

- Gurka D. 2024: A romantikus természetfilozófia recepciója és diszciplináris hatásai a jénai Ásványtani Társaság közegében. – *In Krász L.: A tudományos tudásáramlás mintázatai Magyarországon, 1770–1830.* Corvina, Budapest.
- Gurka D. 2024: Az ásványgyűjtés 18–19. századi gyakorlatai. – *In Krász L.: A tudományos tudásáramlás mintázatai Magyarországon, 1770–1830.* Corvina, Budapest.
- Gurka D. 2024: A weneri mineralógia freibergeri, göttingeni és jénai konnotációi. – *In Krász L.: A tudományos tudásáramlás mintázatai Magyarországon, 1770–1830.* Corvina, Budapest.
- Gurka, D. 2024: The reception and disciplinary effects of romantic natural philosophy in the Jena Mineralogical Society. – *In Krász, L.: Patterns of scientific circulation in Hungary, 1770–1830.* Praesens Verlag, Wien.
- Gurka, D. 2024: Mineral collecting in the 18th and 19th centuries. – *In Krász, L.: Patterns of scientific circulation in Hungary, 1770–1830.* Praesens Verlag, Wien.
- Gurka, D. 2024: Freiberg, Göttingen and Jena connotations of Werner’s mineralogy. – *In Krász, L.: Patterns of scientific circulation in Hungary, 1770–1830.* Praesens Verlag, Wien.
- Harangi Sz. 2024: A magmás petrográfia megszületésétől a kvantitatív közettani kutatásokig – tisztelgés Szabó Csaba munkássága előtt (From the birth of the igneous petrography to the quantitative petrology. A tribute to Csaba Szabó’s scientific and teaching work). – *Földtani Közlöny* 154, 3, 347-364.
- Hála J. 2024: In memoriam dr. Póka Teréz (1935-2023) [former president of the Section History of Science, Hungarian Geological Society]. – *Földtani Közlöny* 154, 1, 3-10.
- Kázmér M. 2024: Szörényi Erzsébet. Geológus, paleontológus (1904-1987). – *In Hay D., Palasik M., Schadt M. (szerk.): Nők a tudomány fellegvárában. Kutatói életutak a Magyar Tudományos Akadémián, 1949-2021.* Akadémiai Kiadó, Budapest, 2. kötet, 1149-1152. https://mersz.hu/hivatkozas/m1191ntf_253#m1191ntf_253
- Kázmér M. 2024: Egy elfelejtett nemzetközi folyóirat a Trianon utáni Magyarországon – a Palaeontologia Hungarica. – *Földtani Közlöny* 154, 1, 65-72.
- Kázmér, M., Gaidzik, K. 2024: Seismic activity along the Periadriatic and Sava Faults in the past two millennia – an archaeoseismological assessment. – *Geosciences* 14, 331. [open access]
- Kázmér, M., Nahar, R., Gaidzik, K. 2024: Late Holocene seismic uplift events depicted by coastal karst formations in Bali, Indonesia. – *Quaternary International* 712, 109577. [open access]
- Papp G. 2024: Tasnádi Kubacska András: egy vérbeli muzeológus a történelem korlátai között. (András Tasnádi Kubacska: A genuine museologist within the limits of history.) – *In Mészáros B. (szerk.): Magyar Nemzeti Múzeum 220.* Magyar Nemzeti Múzeum Közgyűjteményi Központ, Budapest, 106–139.
- Papp G. 2024: Luigi Ferdinando Marsigli magyar vonatkozású földtudományi tevékenységének áttekintése a Danubius Pannonico-Mysicus... és Marsigli publikálatlan kéziratai tükrében. (An overview of Luigi Ferdinando Marsigli’s activities related to Hungary in the field of earth sciences as reflected in his Danubius Pannonico-Mysicus... and his unpublished manuscripts.) – *In Fehér B., Tóth A. J. (szerk.): Marsigli és kortársai. Tanulmányok a magyarországi barokk tudománytörténetéről és történetírásról.* Magyarságkutató Intézet, Budapest, 101–156.

- Szücs, L. Cs., Bodorkós, Zs., Bubik, V., Felkerné Kóthay, K., Gherdán, T., Harman-Tóth, E., Papp, G., Szakáll, S., Szente, I., Tanai, P., Weiszburg, T.: Historical reconstruction of the 18-19th century mineral collection of the Pannonhalma Archabbey, NW Hungary. – *Acta Mineralogica Petrographica – Abstract Series* 13, 72-75.
- Szücs, L. Cs., Bodorkós, Zs., Bubik, V., Felkerné Kóthay, K., Gherdán, T., Harman-Tóth, E., Papp, G., Szakáll, S., Szente, I., Tanai, P., Weiszburg, T.: Historical reconstruction of the 18-19 th century mineral collection of the Pannonhalma Archabbey, NW Hungary. – *Ifjú Szakemberek Ankétja (Meeting of Young Geoscientists)* 54, 70-71.
- Thamó-Bozsó, E. 2024: Emlékezés a 125 éve elhunyt Torma Zsófiára, az első magyar régésznőre, a Magyarhoni Földtani Társulat egyik első női tagjára (In memory of Zsófia Torma, the first female Hungarian archaeologist and one of the earliest female members of the Hungarian Geological Society, who died 125 years ago). – *Földtani Közlöny* 154, 4, 449-458.
- Townson, R.: Tokaj, its Vineyards and Wine / Tokaj szőlőkertjei és bora. Translation, notes and introduction by Péter Rózsa. *Europica varietatis Tokajensis VII. L'Harmattan – Tokaj-Hegyalja University, 2023. ISSN 2939-5712 ISBN 978-963-646-006-8*
DOI: <https://10.56037/978-963-646-006-8>
- Wanek F. 2024: A földtan oktatása és oktatói a Ferenc József Tudományegyetemen (Teaching and teachers at the Ferenc József University). – In Toth Szilárd [szerk.]: *Hagyomány és kiválóság: 150 éves magyar egyetemi oktatás Kolozsváron*, Egyetemi Füzetek 52, Egyetemi Műhely Kiadó / Bolyai Társaság, Kolozsvár, 267–292.
- Wanek F. 2024: Marsigli helye az Erdélyi-medence földgáztelepeinek ismerettörténetében (Role of Marsigli in the history of discovery of gas occurrences in the Transylvanian Basin). – In Fehér B., Tóth A. J. (szerk.): *Marsigli és Kortársai*, Magyarországi Kutató Intézet, Budapest, 283–312. Világhálón:
<https://mki.gov.hu/hu/e-konyvtar-hu/tanulmanykotetek-hu/tanulmanykotetek-marsigli-es-kortarsai/marsigli-helye-az-erdelyi-medence-foldgaztelepeinek-ismerettorteneteben>

IRELAND

Report submitted by Patrick Wyse-Jackson

Kathleen Histon

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Activities.

- Most of my time during 2024 has been focused on my work as INHIGEO Publications and Outreach Coordinator. I participated in the Annual INHIGEO Symposium at the 37th IGC in Busan (Korea) in August 2024, the post-congress INHIGEO fieldtrip to Japan and co-convened session T40- S1 with Martina Koelbl-Ebert.
- Together with Toshihiro Yamada (Japan), Susan Turner (Australia) and John Diemer (ESH editor) the first set of papers of the *Special Issue: Hidden histories revealed in scientific revision of paleontological collections* arising from the INHIGEO sponsored session at the 6th IPC in Thailand (2022) was published in November 2024 in *Earth Sciences History* and the second collection of manuscripts is currently in preparation planned as part 2 of the Special Issue.
- In November 2024 I took part in a two-week collective thematic residency on *Earth Sciences: History, science and society* organized at Faberlull (Olot, Catalonia) and participated in the annual conference of the *Societat Catalana d'Història de la Ciència i de la Tècnica (SCHCT)* held in Olot (21-24 November 2024)
- I continue my research on Arturo Issel and his contribution to the geology of Liguria, A.H. Foord and his wife Ida and history of cephalopod studies and the history of geology of County Donegal (Ireland).

Convener/ Presentations

- Histon K. & Koelbl Ebert M. 2024 (conveners) session T40 -S1 History of women in the Geological Sciences: trailblazers, leaders and those in the shadows. 37th IGC Busan. Abstract volume 4520-4531.
- Histon K. 2024 Mrs A. H. Foord and G. M. Woodward: 19th century translators and illustrators of cephalopod studies. T40 -S1 History of women in the Geological Sciences: trailblazers, leaders and those in the shadows. 37th IGC Busan. Abstract volume 4528.
- Histon, K. 2024 Archibald Geikie and Edward Hull Tour 1887: in search of historical georoutes and geosites in County Donegal (Ireland). Session T27-S3 Geosites and Georoutes in the History of Geological Sciences. Abstract volume 3469.
- Histon, K. (2024) The Phlegrean Fields (Italy) – 16th to 19th century iconic site within the history of the geosciences. Session Ciències de la terra: geologia, vulcanisme i sismologia, Trobada Societat Catalana d'Història de la Ciència i de la Tècnica (SCHCT), Olot Catalonia, 21-24 November 2024.

Publications

- Histon, K., Yamada, T., Turner, S. (Eds.) 2024 Special Issue Hidden histories revealed in scientific revision of paleontological collections Part 1. *Earth Sciences History*. Vol. 43(2), Preface, p. 205-206.
 - Histon, K. 2024 Arturo Issel (1842–1922): the man from Genoa behind the Tyrrhenian stage of the Pleistocene. *Earth Sciences History*, vol. 43 (1), 69-85.
-

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Activities.

- I gave a lecture on cotterite 20 March 2024 to the Cork Geological Association.
 - I confirmed on 1 March 2024 a new specimen of cotterite, the first in 150 years, which had been found by 7-year-old boy Ben O’Driscoll in the Rockforest area of Co. Cork on 17 February 2024. This got publicized by local and national Irish newspapers, in print and online, and was also featured on many online geology media sites (Facebook, mail groups, etc). For more, type ‘Ben cotterite’ into Google for ‘hits’ relevant to this. A short paper on this new cotterite discovery will be published by the *Irish Naturalist’s Journal*.
 - I organised the purchase from auction (from Sotheby’s in New York) by the National Museum of Ireland a set of 6 manuscript notebooks relating to the 19C Lord Farnham mineral collection, much of which is held by the National Museum of Ireland and for which much information has been missing. These notebooks are currently in transit to the museum.
-

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Activities.

This year a great deal of my time has been spent working on the documentation and use of stone in Ireland via the STONEBUILT Ireland project (www.stonebuiltireland.com) and the promotion via a co-edited book highlighting various IUGS Heritage Stones from Ireland and Spain. This volume examines the use of these and an additional 52 stone types but also importantly the history of their quarrying and fabrication and cultural value. In May 2022 I contributed with my colleague Louise Caulfield a presentation to the Symbiosis network workshop, Curating and Exhibiting Geology – past practices and future challenges held in Paris, on the history and utilisation of an important Victorian building in Dublin: “*The Museum Building of Trinity College Dublin: a geological and natural history exhibit in itself*”.

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Publications

- Caulfield, Louise and Wyse Jackson, Patrick N. (2024) Connemara Marble, Ireland: an iconic Irish decorative stone. In Ehling, A., Kaur, G., Wyse Jackson, P.N., Cassar, J., Aparecida del Lama, E. and Hedal, T. (eds) *The First 55 IUGS Heritage Stones*, International Union of Geological Sciences, pp. 138–141.
- Ehling, A., Kaur, G., Wyse Jackson, P.N., Cassar, J., Aparecida del Lama, E. and Hedal, T. (2024) (eds) *The First 55 IUGS Heritage Stones*, International Union of Geological Sciences, pp. 256.
- Garcia-Tallegon, J., Inigo, A.C. and Wyse Jackson, Patrick N. (2024) Villamayor Stone, Spain: a singularly beautiful arkose sandstone. Ehling, A., Kaur, G., Wyse Jackson, P.N., Cassar, J., Aparecida del Lama, E. and Hedal, T. (eds) *The First 55 IUGS Heritage Stones*, International Union of Geological Sciences, pp. 110–113.
- Wyse Jackson, Patrick N. and Caulfield, Louise (2024) Valentia Slate, Ireland: versatile paving and roofing slate. In Ehling, A., Kaur, G., Wyse Jackson, P.N., Cassar, J., Aparecida del Lama, E. and Hedal, T. (eds) *The First 55 IUGS Heritage Stones*, International Union of Geological Sciences, pp. 182–185.
- Wyse Jackson, Patrick N. and Murray, John (2024) An appreciation: George Demetrius Sevastopulo (1941–2021). *Irish Journal of Earth Sciences* **42**, 1–14.
- Wyse Jackson, Patrick N. and Spencer Jones, Mary (eds) (2024) *Annals of Bryozoology 7: aspects of the history of research on bryozoans*. International Bryozoology Association, Dublin, pp. viii+143. [Published online first 2022; print 2024]

ITALY

Report submitted by Ezio Vaccari and Marco Romano.

INHIGEO Italian members were involved in several activities during 2024, including numerous publications, various participations to conferences and symposia (where some members also organized scientific sessions), carrying out research projects and teaching in the field of the history of the Earth sciences. Some of these activities were characterised by collective participation. In February, Gian Battista Vai, Marco Pantaloni, Fabiana Console, Daniele Musumeci, Simone Fabbi and Marco Romano presented papers at the meeting *GeoDi*, organized at the Academy of Sciences in Bologna with the collaboration of the History of Geosciences section of the Italian Geological Society. At the end of May, during the national symposium of the Italian Society of History of Science in Bari, Maddalena Napolitani, Claudia Principe, Daniele Musumeci, Andrea Candela and Ezio Vaccari, presented papers at the session "The history of geosciences between tradition, innovation and contemporary challenges", organized by Andrea Candela with Napolitani and Musumeci. In July, a special issue of papers from the INHIGEO sponsored session "History of Stratigraphy in Italian Environments (17th – 20th centuries)" at the STRATI 2019 meeting in Milan was published in the journal *Earth Science History* (vol. 43, n. 1, 2024, pp. 1-100): it included papers by Andrea Candela, Guido Roghi, Maddalena Napolitani, Simone Fabbi and Ezio Vaccari. The Italian participation in the 37th International Geological Congress, held at the end of August in Busan (South Korea), was significant and very productive: Ezio Vaccari, Claudia Principe, Marco Pantaloni and Maddalena Napolitani presented papers at sessions organized by INHIGEO on "History of Scientific Travels in Asia and beyond", "General contributions on the History of Geological Sciences" and "Geosites and Georoutes in the History of Geological Sciences": Ezio Vaccari was also convener of these sessions, while Maddalena Napolitani organized the INHIGEO workshop "Hidden Histories of Geology". Moreover, at the special event of announcement of the Second 100 IUGS Geological Heritage Sites, also held at the IGC in Busan, Claudia Principe and Ezio Vaccari presented two Italian geo-historical sites (Mt. Vesuvius and Agno Valley) included in this selection. Early in September, a large group of Italian INHIGEO members took part to the annual meeting of the Italian Geological Society in Bari, within the session "Back to the future. History of geological studies and mapping as a key for sustainable development": Marco Pantaloni, Fabiana Console, Luca Barale, Pietro Mosca, Simone Fabbi, Marco Romano and Daniele Musumeci presented papers and posters at this session.

Libera Paola ARENA (Center for the History of Mountains, Material Culture and Earth Sciences, University of Insubria, Varese) continued her research on the reconstruction of possible geo-historical routes in the prealpine area of Varese, Como and Canton Ticino (Italy /

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Switzerland), on the footsteps of geoscientists and naturalists from late 18th to the early 20th century.

Luca BARALE (National Research Council of Italy, Institute of Geosciences and Earth Resources, Turin) continued his research on the history of geological studies and geological mapping in the French-Italian Western Alps from the late 18th until the early 20th century, with particular focus on the study of field notebooks and other primary sources.

Conferences:

- Barale L., Pistarino A., Senesi M., *L'exploration géologique du littoral niçois au 19e siècle*. Conference cycle “Les naturalistes sur le littoral azuréen”, organized by Ville de Nice and Natural History Museum of Nice (France). L'Artistique, Nice (France), 26 November 2024.

Publications:

- Barale L., Bicknell M., *Clarence Bicknell (1842-1918): botanist, archaeologist, Esperantist, and... citizen geologist*. "Rendiconti online della Società Geologica Italiana", 62, 2024, pp. 160-190, <https://doi.org/10.3301/ROL.2024.19>

- Barale L., Bény P., *La découverte de la Grotte des Ratapignata de Falicon (Alpes-Maritimes, France) : nouveaux éléments d'archives de l'Académie des Sciences de Turin*. "Mémoires de l'Institut de Préhistoire et d'Archéologie Alpes Méditerranée", 70, 2024, pp. 163-190.

Andrea CANDELA (University of Insubria, Varese) continued his research on the history of geology, still focusing his studies both on the relationship between the history of uranium, environmental constraints and nuclear energy and on the main geological issues of nuclear siting in Post-World War II Italy. In 2024, Candela continued to serve as Book Review Editor of the international journal of History of Science “Physis”, and continued to get involved in the Insubria PRIN research project “Communicating and Representing the Earth: Structures and Phenomena in the Italian context (17th-19th Centuries)”. In May, he organized two sessions, entitled “The History of Geosciences between Tradition, Innovation and Contemporary challenges”, held as part of the National Conference of the Italian Society for the History of Science (29-31 May 2024, Bari, Italy), where he also presented the paper: “The nuclear challenge: the contribution of geological sciences in a historical perspective”. In June, he participated as an invited speaker in the 16th National Day of the Abandoned Mines, where he gave the keynote lecture: “History of Mining Sites in the Western Lombard Pre-Alps” (Besano-Monte San Giorgio UNESCO Geoheritage, 15 June 2024). In November, he then gave an interview to Radiotelevisione Svizzera (RSI Swiss Radiotelevision), that was about the history of geological research and the extinct volcanoes in the Lombard Prealps.

Conferences:

- Candela A., *The nuclear challenge: the contribution of geological sciences in a historical perspective* (in Italian). Paper at the National Conference of the Italian Society of the History of Science, Bari, 29-31 May 2024.

- Candela A., *History of mining sites in the Western Lombard Pre-Alps* (in Italian). Paper in the 16th National Day of the Abandoned Mines, Besano (Varese), 15 June 2024.

Publications:

- Candela A., *Theories of the Earth and 'Plutonism' in the Introduzione alla geologia by the Italian geologist Scipione Breislak (1811)*, "Earth Sciences History", 43(1), 2024, pp. 13-26.

- Candela A., *Geostoria e questione ambientale. Riflessioni interdisciplinari tra storia della scienza, della tecnologia, delle idee e della Terra*, in *Storia e filosofia della scienza una nuova alleanza*, edited by F. Minazzi, Mimesis, Milano-Udine, pp. 339-438.

Luca CIANCIO (University of Verona) continued his research on the history of early modern geology and meteorology, investigating in particular the relationships between natural philosophy, natural history and theology in understanding the phenomena and structure of the depths of the Earth. During 2024 he also continue to coordinate as Principal Investigator the research project "PRIN 2022 RIPRESa - Re-assessing Italian prehistorical studies from a transdisciplinary perspective", which aims at applying a transdisciplinary approach in the field of Prehistoric studies, starting from a general historical reassessment of the birth and first development of this discipline from 1880 to 1915.

Publications:

- Ciancio L., *Il passato della scienza, le urgenze del presente: per una storia pubblica delle scienze*, "Atti della Accademia roveretana degli Agiati", a. 272, ser. X, vol. V, B, 2024, pp. 35-42.

Fabiana CONSOLE (Library - ISPRA, Rome), as Senior Researcher, continued her research on the history of geological sciences in Italy, with a particular focus on the development of geological and geothematic mapping, and completed the biographical profiles of the past Presidents of the Geological Society of Italy. She is responsible for the GEA Hub of the National Library Service (SBN) and has continued the cataloguing, digitization, and archiving of geological maps and documents preserved in the Library of the Geological Survey of Italy – ISPRA. Within this framework, a multidisciplinary working group developed a dedicated section on the Geological Survey of Italy's web portal, providing web-GIS visualization of a series of historical geological and geothematic maps, making them accessible for research and outreach purposes. She has also actively contributed to science outreach and public engagement, particularly through educational projects such as Earth Planet Week and NET Science Together. These initiatives include public lectures, workshops, and outdoor excursions focused on topics related to the geological history of the territory. As part of Earth Planet Week, held in the northern Lazio Maremma region, she contributed to the organization of field-based activities that

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explored the area's rich geological and environmental heritage. Special attention has been given to the role of excursions as a tool to enhance public understanding of the geological history of the landscape. Field activities allow participants to directly observe geological formations and processes, fostering a deeper appreciation of the historical and scientific significance of the territory. In this context, and on the occasion of the Italian Mines Day, she coordinated a thematic excursion for citizens to the alum deposits of the Tolfa Mountains, an area of great geological and historical interest. The excursion focused on the interpretation of the unique geological setting associated with alum mineralization and its historical exploitation, illustrating the close relationship between natural resources, scientific knowledge, and cultural heritage. This multidisciplinary approach helped promote awareness of the importance of preserving and studying Italy's mining legacy within the broader narrative of Earth sciences. She was a member of the organizing committees of two meetings: the Annual Congress of the Associazione Italiana di Cartografia (Roma, 25-27 September 2024) and the conference *Dancalia: il contributo dei geologi italiani nell'esplorazione dell'Afar* (Società Geografica Italiana, 7 June 2024).

Conferences, seminars and fieldtrips:

- Pantaloni M., Macini P., Console F., *Antonio Stoppani: the founder of Italian geology on the bicentenary of his birth*. 37th International Geological Congress, Busan, South Korea, August 2024.
- Barale L., Console F., Mosca P. & Pantaloni M., *The problem of the age of "greenstones" in the Western Alps: the perspective of Carlo Bruno (1831-1916)*. Congress SGI-SIMP, Bari, 2-5 September 2024.
- Pantaloni M., Console F., *La cartografia geotematica della Dancalia nel fondo cartografico della Biblioteca ISPRA*. Conference "Dancalia: il contributo dei geologi italiani nell'esplorazione dell'Afar". Società Geografica Italiana, Roma, 7 June 2024.
- Pantaloni M., Macini P. & Console F., *Antonio Stoppani: a pioneer of petroleum geology and his activity in the Italian oil production industry*. Congress SGI-SIMP, Bari, 2-5 September 2024.
- Pantaloni M., Console F., *Lo sviluppo della cartografia geologica in Italia*. Seminar "La cartografia geologica storica e moderna", ISPRA-Università di RomaTre, 9 April 2024.
- Pantaloni M., Console F., Petti F.M., *Sulle tracce di Hermann Wilhelm Abich: un viaggio tra i vulcani italiani*. Conference "Geo-Dì 2024", Accademia delle Scienze di Bologna, 16 February 2024.
- Pantaloni M., Console F., Bianco P., Garzarella A., Nonnis O., Pulcini M., Crosti R., Paganelli D., Araneo F., Mantero D., *Due itinerari nel territorio della Maremma laziale: geologia, archeologia e natura*. 12th Festival Nazionale della Settimana del Pianeta Terra, Vulci (Viterbo), 12-13 October 2024 [fieldtrip].
- Pantaloni M., Console F., Bianco P., Paganelli D., Araneo F., *La Caldara di Manziana*. Notte Europea dei Ricercatori, Manziana (Roma), 20 September 2024 [fieldtrip].

- Pantaloni M., Console F., Bianco P., Paganelli D., Nonnis O., La Valle P., Araneo F., Genta D., Mantero D., Giacomini L., *Alla scoperta del Parco Archeo GeoMinerario Allumiere Monti della Tolfa: un itinerario geologico naturalistico tra le antiche miniere di alunite*. Allumiere (Roma), 25 May 2024 [fieldtrip].

- Pantaloni M., Console F., Bianco P., Paganelli D., Nonnis O., La Valle P., Araneo F., Genta D., Mantero D., Giacomini L., *Il Faggeto di Allumiere: una passeggiata tra alberi secolari e cave di alunite*. Allumiere (Roma), 26 May 2024 [fieldtrip].

Publications:

- Fabbi S., Console F., Pantaloni M., Principe C., *The geognostic map of Phlegraean Fields by Bonaventura Montani (1856): the Bagnoli-Agnano reclamation area*, "Rendiconti Online della Società Geologica Italiana", 62, 2024, pp. 89-102.

- Lupi C., Console F., Severino F., Torquato Taramelli (1845-1922), pioneer of the glossary and the series of formations for modern geology in Italy between 1867 and 1881, "Rendiconti online della Società Geologica Italiana", 62, 2024, pp. 118-129.

- Argentieri A., Romano M., Petti F.M., Pantaloni M., Console F., Fabbi S. (eds.), *Mente et Malleo. La Società Geologica Italiana e i suoi Presidenti*. Roma, Società Geologica Italiana, 2024.

Michela CONTESSI (Museum University Network - University of Bologna), continued her research activity in history of geology and palaeontology, as curator of the Geological Collection "Giovanni Capellini Museum", at Bologna University. During 2024 she was also curator of the exhibition *PHOSPHATVILLES. Territory, Settlements and Architecture in the Moroccan extraction site of Ouled Abdoun / Territorio, Insediamenti e Architettura nel sito minerario di Ouled Abdoun in Marocco* (17 December 2024 - 26 January 2025, hosted in the Collezione di Geologia "Museo Giovanni Capellini").

Conferences and seminars:

Contessi M., Tonetti L., *Mary Anning, Georges Cuvier and Camillo Ranzani: ichthyosaurus across Europe*. 24th Edition of the "Giornate della Paleontologia", Pisa, 5-7 May 2024.

- Contessi M., Balzani B., Fanti F., Caruso C., Managlia M., *From a XIX century museum to a 3D digital experience: the challenges of making a geological museum appealing to modern audience*. SGI-SIMP Congress "Geology for a sustainable management of our Planet", Bari, 3-5 September 2024.

- Contessi M., *Anna Fiori and the balance between teaching and research in the years between the Second World War*. Poster at the SGI-SIMP Congress "Geology for a sustainable management of our Planet", Bari, 3-5 September 2024.

Publications

- Contessi M., Fiorillo A.R., Fanti F., *Three of North America's geoheritage sites and the lost 1863 exploration of Giovanni Capellini*. In: Clary, R. M., Pyle, E. J. and Andrews, W. M. (eds)

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Geology's Significant Sites and their Contributions to Geoheritage. London, Geological Society of London Special Publications 543, pp. 109-120 (doi: <https://doi.org/10.1144/SP543-2022-219>).

Pietro CORSI (Oxford University) continued his research on history of geological sciences, particularly in 19th century Italy, as well as on the history of evolutionary theories and public opinion.

Publications:

- Corsi P., *Myth 2: That most european naturalists before darwin did not think that species change was possible*. In: K. Kampourakis (ed.), *Darwin Mythology Debunking Myths Correcting Falsehoods*, Cambridge, Cambridge University Press, 2024, pp. 24 - 35.

- Corsi P., *Haeckel historien de l'évolution*. In: L. Bossi and N. Wanlin (eds.), *Haeckel et les Français Réception, interprétation et malentendus*, Paris, Gallimard, 2024, pp. 32-62.

Fabio D'ANGELO (Naples - Université Côte D'Azur, Nice) continued his research on the crucial role played by the mobility of mineralogists and mining technicians from Germanic countries to southern Italy in the 18th century.

Publications:

- D'Angelo F., *Da esuli a francesi: gli italiani in Francia durante l'età napoleonica (e oltre)*, Bologna, il Mulino, 2024, "Rivista MO. DO: Rivista di storia, scienze umane e cultural heritage", 9-10, 2024, pp. 583-585.

Ivano DAL PRETE (Yale University History of Science, Medicine and Public Health Program) has continued his interdisciplinary research at the intersection of medieval and early modern Earth history, religion, and art. In recent months he has worked on the imbrications of the history of the earth and the history of life, and in particular, on discussions about the the spontaneous generation of human beings from the earth after a global or local flood. He has co-organized (with Paola Bertucci) the conference "Sacred Embriology. Medicine, Religion and the Unborn in the Long Eighteenth Century" (Yale University, 6-7 December 2024).

Seminars:

- Dal Prete I., *On the Edge of Eternity: A Premodern Dive into Deep Time*, University of Milan (Italy), 12 June 2024.

Publications:

- Dal Prete I., *A Christian History of the Earth?*, "Early Science and Medicine", Special Issue: 'Natural History and the Question of Confessionalization', 30, 2025, pp. 137-158.

- Dal Prete I., *Lo spettacolo della fisica nei salotti dell'Illuminismo* [Performing Physics in Enlightenment Salons]. In: E. Canadelli (ed.) *Cristina Roccati (1732-1797). La donna che osò studiare fisica*, Crocetta del Montello, Antiga, 2024, pp. 56-65.
- Dal Prete I., *When the Ocean Towered above the Earth: Dante Alighieri's Questio in Context*. In: M. Pace (ed.), *Dante and the Sciences of the Human*, London, Palgrave, 2024, pp. 27-56.

Simone FABBI (University of Rome "La Sapienza") continued his researches on the history of geological mapping, history of geological and stratigraphic studies of Italy, history of geological explorations, history of the Geological Society of Italy, history of military geology. He was appointed Secretary of the History of Geosciences Section of the Italian Geological Society (SGI) for the 2024–2027 term.

Conferences:

- Innamorati G., Fabbi S., Romano M., Argentieri A., *One against all: fifty years after the geological scheme of Calabria by Leo Ogniben (1973)*. SGI-SIMP Congress “Geology for a sustainable management of our Planet”, Bari, 2-5 September 2024.
- Fabbi S., Cestari R., Dominici S., *The De filippi expedition (1913–1914) and the geological exploration of the Aksai Chin (western Tibet)*. SGI-SIMP Congress “Geology for a sustainable management of our Planet”, Bari 2-5 September 2024.

Publications:

- Fabbi S., Sha J., Cestari R., Dominici S. (2024) - *The contribution of the De Filippi Expedition (1913–1914) to the geological knowledge of the Aksai Chin Region (Western Himalaya)*. "Earth Sciences History", 43 (1), 2024, pp. 86-100. <https://doi.org/10.17704/1944-6187-43.1.86>
- Fabbi S., Console F., Pantaloni M., Principe C., *The geognostic map of Phlegraean Fields by Bonaventura Montani (1856): the Bagnoli-Agnano reclamation area*. "Rendiconti Online della Società Geologica Italiana", 62, 2024, pp. 89-102.
- Argentieri A., Romano M., Petti F.M., Pantaloni M., Console F., Fabbi S. (eds.), *Mente et Malleo. La Società Geologica Italiana e i suoi Presidenti* [The Italian Geological Society and its Presidents]. Roma, Società Geologica Italiana, 423 pp. [in Italian]. This volume is divided into two main sections. The first, comprising six chapters, retraces the key moments in the history of the Italian Geological Society (SGI) within the broader national context, from the discipline's early pioneers to the new millennium. It addresses pivotal events such as World War I, the Fascist period, and the introduction of plate tectonics theory between the 1960s and 1970s, offering a comprehensive overview of the evolution of geology in Italy and the development of SGI in its historical, cultural, and political framework. The second section is devoted to the biographies of the 79 SGI presidents, summarizing their scientific careers and personal aspects.

Maria FACCIOLI (Center for the History of Mountains, Material Culture and Earth Sciences, University of Insubria, Varese), as a research fellow within the PRIN 2022 project

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Communicating and Representing the Earth: Structures and Phenomena in the Italian Context (17th - 19th century) at the University of Insubria, she continued her research on the history of communication of phenomena related to Earth Sciences (volcanism, seismic events, celestial phenomena such as comets, aurora borealis, fireballs etc.) within Italian journals and periodicals between the 18th and 19th centuries. She also collaborates to the course of “History of Mountain” at the University of Insubria, with seminars on the history of quarrying, mining and mineralogical travels in the Alps and Apennines. Later in the year, she worked (as newly appointed webmaster) to the design and the launch of the new INHIGEO website.

Francesco GERALI (University of Oklahoma Department of History of Science, Technology, and Medicine, Norman, USA / University of Western Australia FABLE, School of Humanities, Perth, Australia) concluded in May his appointment as a *Digital Resources Specialist* with the Free Library of Philadelphia and moved back to the University of Oklahoma (Norman Campus) to work with the OU Provost Office academic units *Arts & Humanities Forum* and *UReCA*. He also was appointed contributing Editor to the weekly Newsletter of the Arts and Humanities Forum. In September, Francesco proposed to the OU School of Geosciences, the OU Department of History of Science, Technology, and Medicine, and the OU Libraries Special Collections a joint collaboration for the development of new undergraduate level teaching focused on the Geosciences, Energy Technologies, and Oil&Gas Industry History. The preliminary outline of this medium-term pilot project has been approved, and Francesco started to work on the development of the classes *History of the Geosciences* (Fall 2025), *History of Power Production Technologies* (Spring 2026), and *History of the Oil & Gas Industry* (Fall 2026). In October, he has been appointed *Outreach Coordinator* by the Board of the Petroleum History Institute (PHI), and tasked to organize the topical session proposal *One Century Of Oil and Gas in the Permian Basin (Texas, USA)* for the 2025 Geological Society of America Meeting. Francesco continues to serve as a contributing editor with the *Isis Current Bibliography of the History of Science* for the publications of the International Commission on the History of the Geosciences members and the articles published by the PHI’s *Oil Industry History* journal. He carried on with his historical research on the early references on the scientific knowledge and utilization of petroleum and related substances in the Modern Age. He continued to collaborate on remote with the Museo dell’Energia (Energy Museum) of Ripi (Fosinone), Italy assisting the Museum Director in the planning of scientific activities, outreach operations, grant writing, and contributed to the setting of the new multimedia permanent exhibits: he also authored the description and provided historical images for 7 artifacts preserved and displayed at the Museo dell’Energia, such as Drilling bit, High pressure valve, Elevator for positioning pipes in the well, Crank Beam for oil pumping gantry featured with a gear ring, Chain wrench, Piston cups and Packer. Moreover, he authored the scripts of the narration provided by three historical virtual reality characters to the museum visitors: *Angelo Troccoli* - The Director of Ripi’s oil field operations (1930s-1950s); *Anonymous Miller* - The Watermill operator (18th century); *Anonymous Miller* - The Windmill operator (18th century). The scripts have been developed through the examination of local historical chronicles (province of Frosinone, region Lazio) dated back to the 18th, 19th, and 20th centuries, and with the support of oral history recordings. The scripts are recited by professional

actors and recorded on stage with green-screen background technology. The recordings were digitally processed into holograms and projected in correspondence of the designated section of the Museum.

Conferences:

- Gerali F., *Science, Technology and Engineering in the early Petroleum Industry*. Invited speaker to the class *Responsible Energy Engineering*, University of Oklahoma Mewbourne School of Petroleum and Geological Engineering, 3 December 2024.
- Gerali F., Coordination of OU Arts & Humanities Forum Monthly Seminars, August-December 2024.
- Gerali F., Operational Management of *UReCA Showcase*: Public project presentation of the UReCA Grant awardees, October 2024.

Alessandro IANNACE (University of Naples "Federico II") continued to work on the history of geological methodology and also on the role of history in geological education, including references and lessons on various aspects of the history of geological sciences within his courses of Stratigraphy and Earth Science Teaching.

Conferences:

- Iannace A., *History of the Earth, stories of geologists: why history matters*. Inaugural lecture for the Doctoral Year at Roma Tre University, Rome, 9 February 2024.
- Iannace A., *Streaming interview on the book Storia della Terra*, YouTube channel Nuovi Mondi: Astronomia & Scienza, 22 February 2024. <https://www.youtube.com/watch?v=9RqvtzGpN0M&t=557s>
- Iannace A., *From the mountains to the sea and back: the incredible story of the Earth through the Alps*. Lecture at CAI-UGET of Turin, 1 March 2024.
- Iannace A., *Presentation of the book Storia della Terra (Laterza)*. Galileo Museum, Florence, 8 May 2024. <https://www.youtube.com/watch?v=mScY-WoMaDY&t=33s>
- Iannace A., *Discoveries, Myths and Dreams, based on Storia della Terra (Laterza)*. Turin International Book Fair, 11 May 2024. <https://www.youtube.com/watch?v=TUFvggQ-B7g&t=918s>
- Gravina T., Iannace A., *Revitalizing Earth Science Education in Italian Upper Secondary Schools: Crafting New Educational Materials Aligned with National Guidelines*. EGU General Assembly Conference, April 2024.
- Gravina T., Iannace A., *From Textbook-Based Instruction to Skills-Enhanced Activities: Transforming Earth Science Education in Italian Upper Secondary Schools*, AGU Fall Meeting, 2024.
- Iannace A., *The colours of the Earth*. Presentation as part of the Science Month at the Delfini Library, Modena, 30 November 2024.

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- Iannace A., *Interview by Valeria Palumbo on the book Storia della Terra (Laterza)*. Oggi, no. 24 (Rizzoli), 14 June 2024, and online: <https://www.oggi.it/video/libri-2/2023/06/14/pianeta-terra-perche-il-nostro-impatto-conta-tanto/>
- Greco E., Giampaola D., Iannace A., *Naples before Naples. Archaeology and geology of the origins: at the springs of Monte Echia*. Maggio dei Monumenti, Naples, 18 May 2024.
- Iannace A., Soppelsa O., *How deep is the sea: fishes and abysses of the Gulf of Naples*. Maggio dei Monumenti, Naples, 25 May 2024.

Francesco LUZZINI (University of Eastern Piedmont, Vercelli / San Raffaele University, Milan), in September 2024 concluded his Marie Skłodowska-Curie Fellowship at Ca' Foscari University of Venice. His research project, "Sounding the Depths of Providence", sought to understand how the study of mineral generation evolved in early modern Europe, and how the theoretical and practical knowledge underlying this process influenced the rise and development of the Earth sciences and the role of humans as geological and environmental agents. The environmental and the natural-philosophical issues remain central themes in Francesco's ongoing collaboration with the Max Planck Institute of Geoanthropology in Jena (where he is Research Associate since 2023) and with the Max Planck Partner Group "The Water City" (MPIWG Berlin – Ca' Foscari University of Venice). Also, in 2024 Francesco continued his collaboration with the New Institute Center of Environmental Humanities (NICHE) and with the UNESCO Chair "Water, Heritage and Sustainable Development" (both institutions are based at Ca' Foscari Venice).



Francesco Luzzini, on-field lecture on water management in early modern Venice. Venice, 05/22/2024.

In September 2024, Francesco began a new position as an Adjunct Professor at San Raffaele University in Milan, where he now teaches history of science. In the meanwhile, he continued to serve as Nominating Committee Member for The History of Earth Sciences Society (HESS) and as Special Editor for Italian language sources for *IsisCB*, the *Isis* Current Bibliography of the History of Science. Together with Stephen Weldon (University of Oklahoma – *IsisCB* Editor), he is editing a collection of bibliographical essays focusing on environment and its relationship to science and technology. The volume is expected to be published by 2027. During 2024 he also organized the following events: the Webinar Series: *Da più storie una sola storia. Antonio Vallisneri e la costruzione della moderna monografia scientifica* (University of Eastern Piedmont – ISPF-CNR Naples-Milan), as Co-organizer; the Workshop: *History of Science in the Time of Environmental Challenges: Toward an IsisCB Special Issue* (Ca' Foscari University of Venice – NICHE Institute, Mar 21, 2024); the Workshop Series: *Fertile Uncertainties: Experimentation between Ambiguity and Objectivity in the Early Modern Time* (Ca' Foscari University of Venice – University of Milan) as Co-organizer.

Conferences and seminars:

- Luzzini F., *Obbedire per guadagno: Gestione delle acque e ordine naturale nell'Italia di primo Settecento* (Webinar Series *Da più storie una sola storia*, University of East Piedmont – ISPF-CNR Naples-Milan). 3 December 2024.
- Luzzini F., *Water (and Land) Management in Early Modern Venice* (Uppsala University, Dept. of History of Science and Ideas), 17 September 2024.
- Luzzini F., *Memorie. Scienza e storia nel primo Memoriale dell'Albergo Nave d'Oro (1820-1875)* (Geological Museum of the Dolomites in Predazzo, Italy), 21 August 2024.
- Luzzini F., *Water Management and Natural Order in Early Modern Italy*. Workshop: *Water Ethics Past and Present* (University of Augsburg, Center for Climate Resilience), 27 June 2024.
- Luzzini F., *Water Management in Early Modern Venice* (Ca' Foscari University of Venice, 2024 Johns Hopkins-Warwick Doctoral Summer School), 5 June 2024.
- Luzzini F., *(In)visible traces: Water management in early modern Venice* (Venice International University, Graduate Seminar Towards Geo-Data Science), On-field Lecture, 22 May 2024.
- Luzzini F., *Thus was closed the cycle: Natural philosophy and the early modern debate on the origin of springs* (Venice International University, Graduate Seminar Towards Geo-Data Science), 20 May 2024.
- Luzzini F., *Mineral (Re)generation, Natural Resources, and Human-Environment Interaction in the Early Modern Period* (University of Oslo, Dept. of Archaeology, Conservation and History), 12 April 2024.
- Luzzini F., *A new IsisCB Special Issue Project*. Workshop: *History of Science in the Time of Environmental Challenges: Toward an IsisCB Special Issue* (Ca' Foscari University of Venice - NICHE Institute, 21 March 2024).

COUNTRY REPORTS (2024)

- Luzzini F., *Di fiumi, di vene, di cure. Analogie medico-anatomiche e gestione delle acque nell'Italia d'età moderna* (University of Eastern Piedmont, Dept. of Humanities), 18 January 2024.
- Luzzini F., *Raccolti sotterranei. Analogie organiche nel dibattito d'età moderna sulla (ri)generazione minerale* (University of Eastern Piedmont, Dept. of Humanities), 17 January 2024.
- Luzzini F., *Dalla miniera al laboratorio: la replicabilità dei processi minerali tra filosofia naturale e pratica alchemica* (University of Turin, Turin Post-graduate Workshop in the History of Thought), 11 January 2024.

Publications:

- Luzzini F., (editor) *Sine ira et studio: Metodo e impegno civile per una razionalità illuministica. Scritti offerti a Dario Generali*, Milan, Mimesis, 2024
- Luzzini F., *Accettare lo stato mutevole dell'arte. Ecdotica, informatica e interdisciplinarietà: inquietudini epistemologiche, metodologiche, accademiche*. In: F. Luzzini (ed.), *Sine ira et studio: Metodo e impegno civile per una razionalità illuministica. Scritti offerti a Dario Generali*, Milan, Mimesis, 2024, pp. 229-246.
- Luzzini F., *Going (more) Historical: On Environment, Science, and Discourse*. In: F. Minazzi (ed.), *Storia e Filosofia della Scienza: una nuova alleanza?*, Milan, Mimesis, 2024, pp. 175-182.

Stefano MARABINI (Faenza) continued to study the history of geology and seismic activities in the Emilia-Romagna region (central Italy), as well as geological heritage, and to collaborate with the Museum Scarabelli in Imola.

Publications:

- Muto F., Biondino D., Crisci G.M., Marabini S., Procopio F., Scarciglia F., Vai G.B., *Pages of Earth History in an Exceptional Uniqueness: The Geo-Heritage of the Sila National Park and its Spheroidal Boulders Geosite (Northern Calabria, Italy)*, "Geoheritage", 16, 2024, article 36.
- Muto F., Biondino D., Crisci G. M., Luzzi G., Marabini S., Ponte P., Vai G. B., *Geoheritage of the Sila National Park and surrounding areas (Northern Calabria, Italy)*. "Journal of Maps", 20(1), 2024, pp. 1-14.

Pietro MOSCA (Institute of Geosciences and Earth Resources, CNR - Italian National Research Council, Turin) continued his research activity on the history of geological explorations of the Western Alps during the late 19th and early 20th centuries. As Member of the coordination group, he participated to the meetings and activities of the Section of the History of Geosciences of the Italian Geological Society (SGI). In 2024, he started working on the organization of the 2025 annual meeting of Section of the History of Geosciences of SGI which will be held in Turin (Italy).

Conferences:

- Barale L., Console F., Mosca P., Pantaloni M., *The problem of the age of “greenstones” in the Western Alps: the perspective of Carlo Bruno(1831-1916)*. Italian Geological Society (SGI)- Italian Society of Mineralogy and Petrology (SIMP) joint Congress (Bari, 3-5 September 2024), section *S11. Back to the future-History of geological studies and mapping as a key for sustainable development*. Abstract book p. 358. <https://doi.org/10.3301/ABSGI.2024.02>

Publications:

- Barale L. & Mosca P., *Ramiro Fabiani*. In: Argentieri A., Romano M., Petti F.M., Pantaloni M., Console F., Fabbi S. (eds), *Mente et Malleo - La Società Geologica Italiana e i suoi presidenti*, Roma, Società Geologica Italiana, 2024, pp. 264-266.

- Barale L. & Mosca P., *Alberto Pelloux*. In: Argentieri A., Romano M., Petti F.M., Pantaloni M., Console F., Fabbi S. (eds). *Mente et Malleo - La Società Geologica Italiana e i suoi presidenti*, Roma, Società Geologica Italiana, 2024, pp. 272-274.

Daniele MUSUMECI (University of Catania) continued his research on the history of 20th-century volcanology. He has also explored themes between the history and philosophy of geosciences, to understand the evolution of volcanological studies in relation to the major paradigm shifts that have crossed the geosciences in the last century, from continental drift to plate tectonics. He is currently a research fellow at the University of Catania (Department of Humanities) with a project entitled *Analysis and study of the documentation of seismic and volcanic phenomena*. He is also involved in the study of historical documentation of geophysical phenomena, with a perspective to creating a database of historical sources connected with existing INGV (*National Institute of Geophysics and Volcanology*) databases on earthquakes, eruptions, tsunamis.

Conferences:

- Musumeci D., *La sismologia storica in Italia tra cataloghi e database*, WORKSHOP SCARER PROJECT – PRIN PNRR 2022, *Per un approccio interdisciplinare ai rischi naturali*, Università degli Studi di Ferrara, Ferrara, 29-30 November 2024.

- Branca S., Musumeci D., *Etna 1971 tra storia e vulcanologia*, Book presentation, Zafferana Etnea – Catania. 29 September 2024.

- Musumeci D., Puglisi G., Branca S., Ingaliso L., *The advancements in the studies on Serracozzo Cave I (1971 Etna eruption)*, 6^a Conferenza A. Rittmann, Catania, 18-20 September, 2024.

- Musumeci D., Branca S., Ingaliso L., Baumann B., Briole P., Cirrincione R., Corsaro R. A., Monaco C., Napolitani M., Privitera F., Presentation *The Der Aetna and the studies on Etna by Sartorius von Waltershausen (1809-1876)*, Conference SGI/SIMP, *Geology for a sustainable management of our Planet*, Bari, 3-5 September 2024.

COUNTRY REPORTS (2024)

- Musumeci D., Furlani S., *The conquest of the submerged landscape: a neglected history*, Conference SGI/SIMP, *Geology for a sustainable management of our Planet*, Bari, 3-5 September 2024.
- Musumeci D., Azzaro R., Ciuccarelli C., *I database per le fonti storiche di terremoti, eruzioni e tsunami: ipotesi di struttura e organizzazione dei contenuti*, workshop INGV-WP 11.3 *Access to historical macroseismic archives*, INGV – Roma, 21 June 2024.
- Furlani S., Musumeci D., *Storia della conquista del paesaggio sommerso*, National Conference SISS (Italian Society for the History of Science) *Le Radici del Futuro, Tradizioni, innovazioni e sfide in storia della scienza*, Università degli Studi di Bari Aldo Moro, 29-31 May 2024.
- Branca S., Musumeci D., *Etna 1971 tra storia e vulcanologia*, Book presentation, Catania, 25 May 2024.
- Musumeci D., Seminar *L'interpretazione dei vulcani e della loro attività. L'evoluzione della vulcanologia internazionale dalla modernità alla contemporaneità (secoli XVII-XX)*, Università della Calabria, 21 March 2024.
- Branca S., Musumeci D., Ingaliso L., *Etna 1971 tra storia e vulcanologia*, Conference *Geo-di 2024*, Accademia delle Scienze di Bologna, 15-16 February 2024.
- Musumeci D., *Charles Darwin (1809-1882): una biografia critica*, *International Darwin Day*, Catania, 12-13 February 2024.

Publications:

- Musumeci D., *Giovanni D'Achiardi (Pisa, 25/4/1872 – Fauglia, PI, 9/9/1944)*. In: Argentieri A., Romano M., Petti F. M., Pantoloni M., Console F. e Fabbi S. (eds.), *Mente et Malleo - La Società Geologica Italiana e i suoi Presidenti*, Roma, Società Geologica Italiana, 2024, pp. 242-245. <https://www.socgeol.it/N5735/giovanni-d-achiardi-pisa-25-4-1872-fauglia-pi-9-9-1944.html>
- Musumeci D., *Alessandro Iannace 'Storia della Terra'*, "Scientia", II, n. 2, 2024, pp. 147-149. DOI: 10.61010/2974-9433-202402-002.

Maddalena NAPOLITANI (Museo Galileo, Florence / Centro di Ricerca per la Storia della Montagna, della Cultura Materiale e delle Scienze della Terra, Università degli Studi dell'Insubria, Varese, Italy), in 2024 continued to work as Research Fellow with the Paolo Brenni Scholarship awarded by the Museo Galileo, Institute and Museum for the History of Science (Florence; started in September 2023). During the year she was co-curator of the exhibition *Collectible Minerals* (Musée de minéralogie de l'École des Mines de Paris, 6 September 2023 - 9 March 2024); co-organizer of the panel *Grounding the Arts. Art history and History of Earth Sciences* (47th annual congress of the Comité International d'Histoire de l'Art, Lyon, 23-28 June 2024); co-organizer of the workshop *Hidden Histories of Geology* (37th International Geological Congress, Busan, South Korea, 25-31 August 2024); co-organizer of the INHIGEO webinar series *New Perspectives in the History of Earth Sciences* (started in February

2023); co- organizer of the cycle of books presentations *Pagine di Storia della Scienza*, for the Società Italiana di Storia della Scienza (SISS) and the Museo Galileo (started in October 2023). She also continued her work as Associate Managing Editor of "Nuncius. Journal of the Material al Visual History of Science".

Conferences and seminars:

- Napolitani M., *Models of Precision: Some Reflections on Eustachio Porcellotti's Reconstruction of Galileo's "Application of the Pendulum" (1877)*. Scientific Instruments Commission (SIC) Annual Symposium, Ottawa, Ingenium (participation online), 16-20 September 2024.

- Napolitani M., *Crossing Heritages. Geosites, Geoheritage and their History through Images*. 37th International Geological Congress, INHIGEO symposium, Busan, South Korea, 25-31 August 2024.

- Napolitani M., 1. *Dallo strumento al monumento: patrimonializzazione e museografia degli strumenti scientifici esposti nella Tribuna di Galileo a Firenze (1829-1874)*; 2. *Il Der Aetna di Sartorius tra innovazione scientifica e artistica* (with Stefano Branca and Luigi Ingaliso); 3. *Il ritratto di un esperimento (1777). Balthazar-Georges Sage e la respirazione animale* (with Marco Beretta). Papers presented at the National congress the Società Italiana di Storia della Scienza (SISS), "Le radici del futuro", Università degli Studi di Bari Aldo Moro, Bari, 29-31 May 2024.

As invited speaker:

- Napolitani M., *Exposing Earth Sciences History: challenges and perspectives* (Keynote speaker). 37th International Geological Congress, INHIGEO symposium, Busan, South Korea, 25-31 August 2024.

- Napolitani M., *Scientific Collections in Modern Europe: Histories and Perspectives. The cases of the Mineralogy Museum of the École des Mines (Paris) and of the Museo Galileo (Florence)*. Lecture for the graduate school of languages and society, Hitotsubashi University, Tokyo, 19 August 2024.

- Napolitani M., *From the Extraction to the Exhibition "Collectible Minerals"*. Colloquium "The Humanities of Nature. Collecting Minerals, Extracting the Earth. Political Dimensions of Geoscience", Museum für Naturkunde, Berlin (online), 19 June 2024.

- Napolitani M., *Les pierres de la Nation. Des collections de minéralogie au musée de l'École des Mines de Paris*. Symbiosis/MNHN/Origins workshop "Curating and exhibiting geology: past practices and future challenges", Muséum national d'histoire naturelle, Paris, 21-23 May 2024.

- Napolitani M., *Du ventre de la Terre aux "armoires éblouissantes": formation et transformation des collections minéralogiques*. One-day conference "Formations/Transformations des collections naturalistes", Muséum national d'histoire naturelle, Paris, 28 February 2024.

Publications:

COUNTRY REPORTS (2024)

- Napolitani M., *Mining pencils, sculpting graphite. The Siberian expedition of J.-P. Alibert (1844-1857) and its relation to Earth sciences visual and material culture*, "Earth Sciences History", 43/1, 2024, pp. 42-68.

Marco PANTALONI (ISPRA, Rome) in 2024 continued his work in the history of geological sciences. His research primarily focused on geological mapping, the history of Geological Surveys, and the lives of geoscientists. Beyond his research, he maintained his leadership as Director of the ISPRA Library and continued to coordinate the "History of Geoscience working group" for the Geological Survey of Italy - ISPRA. He also contributed to the Coordination Committee of the "History of Geoscience Section" of the Geological Society of Italy. A key initiative he pursued was the digitization, cataloguing, and archiving of the historical geological maps and archive materials housed within the ISPRA Library. During 2024 he also organized several conferences and seminars, with the following roles: member of the Scientific and organizing Committee of the Annual Congress of the Associazione Italiana di Cartografia. Roma, 25-27 September 2024; Convener of Session S11. *Back to the future. History of geological studies and mapping as a key for sustainable development*. Congress SGI-SIMP, Bari, 3-5 September 2024; Convener of Session T22.2 – *Geoscience information, geological mapping and modelling*. 37 International Geological Congress – Busan, Republic of Korea; member of the Organization Committee of the congress *Dancalia: il contributo dei geologi italiani nell'esplorazione dell'Afar*. Società Geografica Italiana, 7 June 2024; member of the Scientific Committee Geo-di Conference (Accademia delle Scienze di Bologna, 16 January 2024, Bologna).

Conferences, seminars and field trips:

- Pantaloni M., Macini P., Console F., *Antonio Stoppani: the founder of Italian geology on the bicentenary of his birth*. 37th International Geological Congress, Busan, Republic of Korea. 25-31 August 2024.

- Barale L., Console F., Mosca P., Pantaloni M., *The problem of the age of "greenstones" in the Western Alps: the perspective of Carlo Bruno (1831-1916)*. Congress SGI-SIMP, Bari, 2-5 September 2024.

- Pantaloni M., Console F., *La cartografia geotematica della Dancalia nel fondo cartografico della Biblioteca ISPRA*. Congress "Dancalia: il contributo dei geologi italiani nell'esplorazione dell'Afar. Società Geografica Italiana, 7 June 2024.

- Pantaloni M., *Il contributo delle scienze geologiche allo studio dei processi di cambiamento climatico*. Workshop: *Quale sarà il ruolo del geologo nel prossimo futuro?* Università degli studi di Potenza, 26 June 2024.

- De Caterini G., Leoni G., Andrisani M.G., Carta R., De Benedetti A.A., De Corso S., Ferrigno F., Fumanti F., Guerra M., Guerrieri L., Lucarini M., Naitza S., Olivetta L., Pantaloni M., Patanè R.A., Serra M., Spizzichino D., Amanti M., *The relevance of the 1973 mining map of Italy: its revamping in the GeoSciencesIR project*. Congress SGI-SIMP, Bari, 2-5 September 2024.

- Macini P., Pantaloni M., *Geosciences and engineering of Lungro rock salt: unveiling Italy's longest-lived underground mining site in Calabria*. Congress SGI-SIMP, Bari, 2-5 September 2024.
- Pantaloni M., Macini P., Console F., *Antonio Stoppani: a pioneer of petroleum geology and his activity in the Italian oil production industry*. Congresso congiunto SGI-SIMP, Bari, 2-5 September 2024.
- Pantaloni M., *Gli scritti e le opere di Antonio Stoppani. Attualità di Antonio Stoppani: visioni e sfide delle geoscienze nel terzo millennio*. Convegno “Attualità di Antonio Stoppani: visioni e sfide delle geoscienze nel terzo millennio”, Accademia Nazionale dei Lincei, 24 September 2024.
- Pantaloni M., *Gli scritti e le opere di Antonio Stoppani*. Assemblea Società Geologica Italiana. 6 December 2024.
- Pantaloni M., Console F., *Lo sviluppo della cartografia geologica in Italia*. Seminar “La cartografia geologica storica e moderna”, ISPRA-Università di RomaTre, 9 April 2024.
- Pantaloni M., Console F., Bianco P., Garzarella A., Nonnis O., Pulcini M., Crosti R., Paganelli D., Araneo F., Mantero D., *Due itinerari nel territorio della Maremma laziale: geologia, archeologia e natura*. 12th Festival Nazionale della Settimana del Pianeta Terra, Vulci (Viterbo), 12-13 October 2024 [fieldtrip].
- Pantaloni M., Console F., Bianco P., Paganelli D., Araneo F., *La Caldara di Manziana*. Notte Europea dei Ricercatori, Manziana (Roma), 20 September 2024 [fieldtrip].
- Pantaloni M., Console F., Bianco P., Paganelli D., Nonnis O., La Valle P., Araneo F., Genta D., Mantero D., Giacomini L., *Alla scoperta del Parco Archeo GeoMinerario Allumiere Monti della Tolfa: un itinerario geologico naturalistico tra le antiche miniere di alunite*. Allumiere (Roma), 25 May 2024 [fieldtrip].
- Pantaloni M., Console F., Bianco P., Paganelli D., Nonnis O., La Valle P., Araneo F., Genta D., Mantero D., Giacomini L., *Il Faggeto di Allumiere: una passeggiata tra alberi secolari e cave di alunite*. Allumiere (Roma), 26 May 2024 [fieldtrip].

Publications:

- Fabbi S., Console F., Pantaloni M., Principe C., *The geognostic map of Phlegraean Fields by Bonaventura Montani (1856): the Bagnoli-Agnano reclamation area*, "Rendiconti Online della Società Geologica Italiana", 62, 2024, pp. 89-102.
- Argentieri A., Romano M., Petti F.M., Pantaloni M., Console F., Fabbi S. (eds.), *Mente et Malleo. La Società Geologica Italiana e i suoi Presidenti*. Roma, Società Geologica Italiana, 2024.
- Scoth R., Dal Piaz G.V., Pantaloni M., *Le lettere di Felice Giordano a Quintino Sella. Terza e ultima parte (2.5.1877 - 26.2.1884)*. "Rivista di Storia dell'Università di Torino", XIII.1, 2024, Saggi e Studi, pp. 1-94.

COUNTRY REPORTS (2024)

Claudia PRINCIPE (Institute of Geosciences and Earth Resources, CNR - Italian National Research Council, Pisa) continued her researches in the history of volcanology (Vesuvius, Mt. Amiata, Phlegrean Fields) and geo-archaeology, as well on the history of the Earth sciences in the early meetings of Italian scientists.

Conferences:

- Principe C., *Vesuvius Georoutes*, INHIGEO Symposium at the 37th International Geological Congress in Busan, South Korea, 25-31 August 2024.
- Vezzoli L., Principe C., *Monte Amiata (Tuscany, Italy) in the History of Volcanology*. INHIGEO Symposium at the 37th International Geological Congress in Busan, South Korea, 25-31 August 2024.
- Principe C., *Vesuvius Volcano. Italy. The second 100 IUGS Geological Heritage Sites* at the 37th International Geological Congress in Busan, South Korea, 25-31 August 2024.

Publications:

- Fabbi S., Console F., Pantaloni M., Principe C., *The geognostic map of Phlegraean Fields by Bonaventura Montani (1856): the Bagnoli-Agnano reclamation area*, "Rendiconti Online della Società Geologica Italiana", 62, 2024, pp. 89-102.
- Principe C., *Vesuvius Volcano. Italy, The second 100 IUGS Geological Heritage Sites. The Second 100 IUGS Geological Heritage Sites*, edited by G. Lozano, L. Carcavilla, S. Finney, A. Hilario, J. Vegas, B. Van Wyck de Vries, J. Zhang, IUGS - International Union of Geological Sciences. 2024, pp. 34-35.

Guido ROGHI (Institute of Geosciences and Earth Resources, CNR - Italian National Research Council, Padua), continued his research work in particular on 18th and 19th century geologists and paleontologist Deodat de Dolomieu, Abramo Massalongo, Rinaldo Zardini and Achille De Zigno. He also contributed to the history of the geological maps of the Dolomites, with particular attention to the figure of Emilio Cornalia. The activity related to the history of the paleontological sites of Bolca and Val d'Alpone (Verona) also continues with regards to the candidacy of this area as a UNESCO heritage site. During 2024, he organized the meeting *Abramo Massalongo (1824-2024)* at the Accademia di Agricoltura, Scienze e Lettere of Verona (28 November 2024) and the exhibition *Massalongo 200 (1824-2024)* in Tregnago (Verona) from 11 May to 31 December 2024.

Conferences and Seminars:

- Roghi G., *Bibliografia scientifica ragionata di Abramo Massalongo. Sviluppi storici e utilità attuale*. Meeting: *Abramo Massalongo (1824-2024)*. Accademia di Agricoltura, Scienze e Lettere di Verona. 28 November 2024.
- Roghi G., *Il minerale, la roccia e le montagne dedicate a Dolomieu. Convegno Internazionale Déodat de Dolomieu: il suo tempo, la sua scienza e la Sicilia*. Militello and Catania, 27-28 September 2024.

- Roghi G., Zardini R., *Geologia e Fossili delle Dolomiti di Cortina e dintorni*. CAI Padova, 5 December 2023.

- Roghi G., Bizzarini F., *Emilio Cornalia autore di una delle prime carte geologica dell'area dolomitica, nell'anniversario dei 200 anni della sua nascita (1824 – 1882)*. Predazzo, Museo Geologico delle Dolomiti, 4 September 2024.

Publications:

- Roghi G., *The geological travels of Achille de Zigno in the dolomites during the spring of 1846*, "Earth Sciences History", 43 (1), 2024, pp. 27-41.

- Roghi G., *Abramo Massalongo scienziato. Moderni sviluppi scientifici di alcuni studi di Abramo Massalongo (1824-1860)*. "La Lessinia, Ieri, Oggi e Domani, Quaderno Culturale", 43, 2024, p. 59-64.

Marco ROMANO (Sapienza University of Rome) In 2024, as coordinator of the History of Geosciences Section of the Italian Geological Society, has continued to demonstrate a multifaceted commitment to the enhancement of geoscientific culture through both academic and outreach activities. His work spanned numerous domains, from participating in scientific symposia to publishing scholarly articles and curating thematic volumes, all while contributing to educational efforts and public dissemination. Romano was directly involved in the organization and participation in national scientific meetings, notably contributing to the “Geo-Di 2024” event held at the Accademia delle Scienze in Bologna, where he co-authored a presentation celebrating the 50th anniversary of Leo Ogniben’s geological scheme of Calabria. Additionally, he co-organized and took part in several excursions aimed at promoting geological heritage to the public, particularly within the Lazio region. In the field of scholarly publication, he co-authored and co-edited the institutional volume *Mente et Malleo*, retracing the history of the Italian Geological Society through its presidents. He published on the cultural intersections between geology, history, and folklore, notably exploring the mythological dimensions of fossils and their role in popular imagination. His article “Fossils as a source of myths, legends and folklore” appeared in the *Rendiconti Online della Società Geologica Italiana*. Romano has also played an active role in thematic editorial work, contributing to recurring rubrics in the magazine *GeologicaMente* and participating in the management of the “GeoItaliani” blog. These platforms allowed him to foster interdisciplinary dialogue and enhance awareness of geological heritage across broader audiences. His academic involvement included teaching the course “History of Geology and Paleontology” at Sapienza University of Rome and mentoring collaborative research projects. His dedication to historical and cultural aspects of geosciences was also evident in his contributions to blog articles, seminars, and editorial initiatives throughout the year.

Conferences and Seminars:

- Fabbi S., Argentieri A., De Caterini G., Giamborino A., Innamorati G., Romano M., *Uno contro tutti: lo schema geologico della Calabria di Leo Ogniben (1973), cinquant'anni dopo*. Conference “Geo-Di 2024”, Accademia delle Scienze di Bologna, 16 February 2024.

COUNTRY REPORTS (2024)

- Argentieri A., De Caterini G., De Ritis R., Romano M., Rotella G., *Science in the Riviera dei Fiori: 'traces elements' of geology in Italo Calvino's literary output*. SGI-SIMP Congress "Geology for a sustainable management of our planet", Bari, 2-5 September 2024.

Publications:

- Romano M., *Fossils as a source of myths, legends and folklore*. "Rendiconti online della Società Geologica Italiana", 62, 2024, pp. 103-117.

- Fabbi S., Romano M., *Cultura Geologica e Memoria Storica*. "GeologicaMente", 14, 2024, p. 62.

- Romano M., Fabbi S., Presentazione del volume societario "*Mente et Malleo*". "GeologicaMente", 15, 2024, p. 54.

- Argentieri A., Romano M., Petti F.M., Pantaloni M., Console F., Fabbi S. (editors), *Mente et Malleo. La Società Geologica Italiana e i suoi Presidenti*. Roma, Società Geologica Italiana, 2024.

Ezio VACCARI (University of Insubria, Varese) continued his research on the history of Earth sciences in 18th-19th century, with particular attention to stratigraphical and orogenetic theories, geological exploration in mountain areas, as well as visual representation of geological phenomena. Most of his research activities were based at the Center for the History of Mountains, Material Culture and Earth Sciences of the University of Insubria (Varese), of which he has been director since 2012. At the beginning of 2024 he took over the leadership, as Principal Investigator of the project and scientific coordinator of the unit at the University of Insubria, of a two-year research project PRIN 2022, *Communicating and Representing the Earth: Structures and Phenomena in the Italian Context (17th - 19th century)*, with the Universities of Catania and Roma 3, in order to identify and analyze the representation, of catastrophic phenomena such as volcanic eruptions, earthquakes and other natural events, mainly in 18 century Italian periodicals. At the 37th International Geological Congress in Busan (South Korea) he was convenor and co-convenor of the INHIGEO sessions on "Geosites and Georoutes in the History of Geological Sciences", "History of Scientific Travels in Asia and beyond" and "General Contributions on the History of Geological Sciences", and presented (as author of the proposal) the geo-historical site Agno Valley, at the special event of announcement of the Second 100 IUGS Geological Heritage Sites. Finally, from 19 November to 1 December, he was resident fellow within the program "Earth Sciences: history, science and society" of the research institute FaberLull in Olot (Catalonia, Spain). He also continued to teach history of geological sciences within his course of "History of Mountains" (BA in Natural and Environmental Sciences) at the University of Insubria in Varese and Como.

Conferences and seminars:

- Vaccari E., *The role of history in the valorization of geosites and geological heritage* [in Italian], National Symposium of the Italian Society of History of Science "Le radici del futuro. Tradizioni, innovazioni e sfide in storia della scienza", University of Bari, Italy, 30 May 2024.

- Vaccari E., *Geological Travels and Mapping in the Himalayan region between the 19th and the 20th century*. Session T40–S2 "History of Scientific Travels in Asia and beyond", 37th International Geological Congress, Busan, South Korea, 27 August 2024.

- Vaccari E., *The Agno Valley and Giovanni Arduino's cross section: an iconic site and a classic image for the birth of lithostratigraphy*. Session T27–S3 "Geosites and Georoutes in the History of Geological Sciences", 37th International Geological Congress, Busan, South Korea, 30 August 2024.

- Vaccari E., *The interdisciplinary challenges of the History of Earth Sciences*. XVIII Trobada d'Història del la Ciència i de la Tècnica, Espai Cràter, Olot, Catalonia, Spain, 23 November 2024.

Publications:

- Vaccari E., *History of stratigraphy, travels and mining: some Italian perspectives*, "Earth Sciences History", 43 (1), 2024, p. 1..

- Vaccari E., *An overview of the development of stratigraphy in Italy during the 17th and 18th centuries: from Steno to Arduino*, "Earth Sciences History", 43 (1), 2024, pp. 2-12.

- Vaccari E., *Arduino's lithostratigraphical sequence of the Agno Valley, Italy*, in *The Second 100 IUGS Geological Heritage Sites*, edited by G. Lozano, L. Carcavilla, S. Finney, A. Hilario, J. Vegas, B. Van Wyck de Vries, J. Zhang, IUGS - International Union of Geological Sciences, 2024, pp. 22-23.

Gian Battista VAI (University of Bologna), continued his research activity in history of geology, paleontology and geoheritage, as past Director of the Geological Museum "Giovanni Capellini", at Bologna University. In February 2024 he co-organized at the Academy of Sciences in Bologna the conference "Geo-Dì 2024", with the collaboration of the Section of History of Geosciences of the Italian Geological Society.

Conferences:

- Vai G.B., *Dopo gli anniversari di Giovanni Capellini (1833-1922) e Giuseppe Scarabelli (1820-1905)*. Conference "Geo-Dì 2024", Accademia delle Scienze di Bologna, 16 February 2024

Publications:

-Vai G.B., *History of the restoration of Aldrovandi's plaques and of the 8th Centenary at the Archiginnasio*. "Annales. Proceedings of the Academy of Sciences of Bologna". Class of Physical Sciences. <https://doi.org/10.30682/annalesps2402d>

- Vai G.B., *Le lettere di Quintino Sella (1827-1884) a Giovanni Capellini (1833-1922) nella Biblioteca dell'Archiginnasio a Bologna (1861-1884)* [The Correspondence by Q. Sella to (1827-1884) to G. Capellini (1833-1922) at the Archiginnasio Library in Bologna], "Rivista di Storia dell'Università di Torino", Saggi e Studi, XIII.2, 2024, pp. 39-101.

COUNTRY REPORTS (2024)

- Muto F., Biondino D., Crisci G.M., Marabini S., Procopio F., Scarciglia F., Vai G.B., *Pages of Earth History in an Exceptional Uniqueness: The Geo-Heritage of the Sila National Park and its Spheroidal Boulders Geosite (Northern Calabria, Italy)*, "Geoheritage", 16, 2024, article 36.

- Muto F., Biondino D., Crisci G. M., Luzzi G., Marabini S., Ponte P., Vai G. B., *Geoheritage of the Sila National Park and surrounding areas (Northern Calabria, Italy)*. "Journal of Maps", 20(1), 2024, pp. 1-14.

Luigina VEZZOLI (Institute of Geosciences and Earth Resources, CNR - Italian National Research Council, Pisa) continued her research on the history of volcanological studies in Italy, with particular attention to Mt. Amiata in Tuscany.

Conferences:

- Vezzoli L., Principe C., *Monte Amiata (Tuscany, Italy) in the History of Volcanology*. INHIGEO Symposium at the 37th International Geological Congress in Busan, South Korea, 25-31 August 2024.

Ezio VACCARI

History of Geoscience Section, Italian Geological Society

In 2024, the Section for the History of Geosciences, founded in 2012, continued to actively develop a wide range of activities, including: the organization and participation in seminars and conferences; the publication of scientific and popular articles in national and international journals, as well as brief notes on the Section's blog (www.geoitaliani.it); and the dissemination of news related to the Section's areas of interest through its Facebook page (<https://www.facebook.com/geoitaliani/>) and the X platform.

The Facebook page currently has 2,907 followers, showing a steady increase over time.

Throughout 2024, the total number of registered members remained stable—thanks to a balance between withdrawals and new subscriptions—and stands at 171. Approximately half of these are university professors or researchers from academic or other research institutions, while the remaining members include students, school teachers, freelance professionals, employees of public administrations, retirees, or simply enthusiasts.

During 2024, the Section carried out the following general activities:

-Marco Romano was elected as the new Coordinator, and Simone Fabbi was appointed as the new Secretary. Elections held from 23 to 27 March 2024.

- Renewal of the Coordinating Committee of the Section for the History of Geosciences, with elections held from 12 to 15 April 2024. Elected members: Anna Giamborino, Pietro Mosca, Daniele Musumeci, Marco Pantaloni, Guido Roghi, Fabio Petti, and Ezio Vaccari.
- Meetings of the Coordinating Committee of the Section for the History of Geosciences of the Italian Geological Society held on 6 March and 30 April 2024.
- Assembly of the members affiliated with the Section for the History of Geosciences held on 3 April 2024.
- Completion of the editorial project Biographies of the Presidents of the Italian Geological Society, with the drafting and publication of all 78 entries, authored by Section members: Alessio Argentieri, Luca Barale, Massimiliano R. Barchi, Giancarlo Beneo, Andrea Candela, Simonetta Cirilli, Roberto Colacicchi, Fabiana Console, Giorgio Vittorio Dal Piaz, Giovanni De Caterini, Agata Di Stefano, Simone Fabbi, Paolo Roberto Federici, Giulia Innamorati, Giusy Lavecchia, Marcello Manzoni, Stefano Marabini, Marco Menichetti, Giorgio Minelli, Pietro Mosca, Daniele Musumeci, Marco Pantaloni, Eric Pavan, Fabio Massimo Petti, Antonio Praturlon, Marco Romano, Enrico Tavarnelli, Gian Battista Vai.
- Continuation of the information gathering process for the compilation of the Bibliographic Repertoire of publications on the History of Geology in Italy.

Organization of Conferences, Symposia, Seminars:

- Geodi 2024, Bologna, 15–16 February 2024, Academy of Sciences of the Institute of Bologna. Study days organized in collaboration with the Section for the History of Geosciences of the Italian Geological Society (SGI) and the University Museum System (SMA) of the University of Bologna. Organizing committee coordinators: Gianbattista Vai, Alessio Argentieri, Federico Fanti, Paolo Macini, Ezio Mesini.
- Contessi M. (2024) – Curatorship of the exhibition PHOSPHATVILLES: Territory, Settlements and Architecture in the Moroccan extraction site of Ouled Abdoun / Territorio, Insedimenti e Architettura nel sito minerario di Ouled Abdoun in Marocco. 17 December 2024 – 26 January 2025, Geological Collection “Giovanni Capellini Museum”.
- Session S11. Back to the future. History of geological studies and mapping as a key for sustainable development. Conveners: Alessio Argentieri, Rossella De Ceglie, Paolo Macini, Marco Pantaloni, Carla Petrocelli. Joint SGI–SIMP Congress, Bari, 3–5 September 2024.
- Pantaloni M. (2024) – Member of the scientific and organizing committees of the Annual Conference of the Italian Association of Cartography. Rome, 25–27 September 2024.
- Pantaloni M. (2024) – Convener of Session T22.2 – Geoscience information, geological mapping and modelling. 37th International Geological Congress, Busan, Republic of Korea.
- Pantaloni M. (2024) – Member of the organizing committee of the conference Danakil: the contribution of Italian geologists to the exploration of the Afar. Italian Geographical Society, 7 June 2024.

COUNTRY REPORTS (2024)

-Punturo R., Cirrincione R. (2024) – Members of the scientific and organizing committees of the international conference Déodat de Dolomieu: His Time, His Science and Sicily. 27–28 September 2024, Militello V.C. and Catania (Sicily).

-Punturo R., Cirrincione R. (2024) – Members of the scientific committee of the international congress Man and Karst, 24–29 June 2024, Ragusa.

-Punturo R. (2024) – Organization of the geo-event Melior de cinere surgo – Geological Catania. On the occasion of Earth Planet Week 2024. <https://www.settimanaterra.org/node/5158>, 10–12 October 2024.

-Vaccari E. (2024) - Convenor of the INHIGEO session on "Geosites and Georoutes in the History of Geological Sciences", 37th International Geological Congress, Busan, South Korea, 25-31 August 2024.

-Vaccari E. (2024) - Convenor of the INHIGEO session on "History of Scientific Travels in Asia and beyond", 37th International Geological Congress, Busan, South Korea, 25-31 August 2024.

-Vaccari E. (2024) - Co-convenor of the INHIGEO session on "General Contributions on the History of Geological Sciences", 37th International Geological Congress, Busan, South Korea, 25-31 August 2024.

Presentations at conferences, seminars, exhibitions, competitions, outreach activities

-Scalera G. (2024) – The Expanding Earth – historical notes, clues, evidence, connections. Italian Society of Historians of Physics and Astronomy. 3 May 2024.

-Agostini S. (2024) – Seminar lecture during the 2nd Course for Speleological Tourism Guides, held in L’Aquila on 10 January. The seminar described the first exploration and account of the “Grotta a Male” in Assergi, conducted by Captain Francesco De Marchi on 20 August 1573.

-Agostini S. (2024) – Geopaleontological deposits in Abruzzo within the event I cammini della Preistoria, Gagliano Aterno, 16 November 2024.

-Agostini S. (2024) – Elephant faunas in Abruzzo. International closing conference of the project and exhibition I cammini della Preistoria, Barete, 24 November 2024.

-Barale L., Pistarino A., Senesi M. (2024) – The geological exploration of the Nice coastline in the 19th century. Lecture series “Les naturalistes sur le littoral azuréen”, organized by Ville de Nice and Muséum d’Histoire Naturelle de Nice. L’Artistique, Nice (France), 26 November 2024.

-Bencini R., Bracci G., Torri R., Orlandi P. (2024) – Seminar and guided excursion on the theme An important past: mineral resources and mines of the Monti Livornesi. Organized as part of the seminar cycle Earth Sciences in the Monti Livornesi by the Geo-Mineralogical Group of Livorno APS, Livorno, 30 May 2024.

-Punturo R. (2024) – Climate during the Geological Ages. CAI Sicily Conference, Montalbano Elicona and Tripi, April 2024.

-Punturo R., Maniscalco R., Monaco C. (2024) – The bituminous limestones of the Hyblean region: geological and cultural heritage from past to future. International conference Déodat de Dolomieu, His Time, His Science and Sicily, 27–28 September 2024, Militello V.C. and Catania (Sicily).

-Roghi G. (2024) – The mineral, the rock, and the mountains dedicated to Dolomieu. International conference Déodat de Dolomieu, His Time, His Science and Sicily, Militello in Val di Catania and Catania, 27–28 September 2024.

-Contessi M., Tonetti L. (2024) – Mary Anning, Georges Cuvier and Camillo Ranzani: ichthyosaurus across Europe. Presentation at the XXIV edition of the Giornate della Paleontologia, 5–7 May, Pisa.

-Contessi M., Balzani B., Fanti F., Caruso C., Managlia M. (2024) – From a 19th-century museum to a 3D digital experience: the challenges of making a geological museum appealing to a modern audience. Joint SGI–SIMP Congress Geology for a Sustainable Management of Our Planet, 3–5 September, Bari.

-Contessi M. (2024) – Anna Fiori and the balance between teaching and research in the years between the Second World War. Joint SGI–SIMP Congress Geology for a Sustainable Management of Our Planet, 3–5 September, Bari.

-Barale L., Console F., Mosca P., Pantaloni M. (2024) – The problem of the age of “greenstones” in the Western Alps: the perspective of Carlo Bruno (1831–1916). Joint SGI–SIMP Congress, Bari, 2–5 September 2024, p. 358.

-Pantaloni M., Console F. (2024) – The geothematic cartography of Danakil in the map collection of the ISPRA Library. Conference Danakil: the contribution of Italian geologists to the exploration of the Afar, Italian Geographical Society, 7 June 2024.

-Iannace A. (2024) – History of the Earth, stories of geologists: why history matters. Inaugural lecture for the Doctoral Year at Roma Tre University, Rome, 9 February 2024.

-Iannace A. (2024) – Streaming interview on the book *Storia della Terra*, YouTube channel Nuovi mondi: Astronomia & Scienza, 22 February. <https://www.youtube.com/watch?v=9RqvtzGpN0M&t=557s>

-Iannace A. (2024) – From the mountains to the sea and back: the incredible story of the Earth through the Alps. Lecture at CAI-UGET of Turin, 1 March.

-Iannace A. (2024) – Presentation of the book *Storia della Terra* (Laterza) at the Galileo Museum, Florence, 8 May. <https://www.youtube.com/watch?v=mScY-WoMaDY&t=33s>

-Iannace A. (2024) – Discoveries, Myths and Dreams, based on *Storia della Terra* (Laterza). Turin International Book Fair, 11 May. <https://www.youtube.com/watch?v=TUfvvggQ-B7g&t=918s>

-Guerra C., Camerlenghi A., Iannace A. (2024) – Between water and air: history of Planet Earth. Trieste Next, Festival of Scientific Research, 29 September 2024. <https://www.youtube.com/watch?v=w3JxLDrgXgg&t=421s>

COUNTRY REPORTS (2024)

- Iannace A. (2024) – The colours of the Earth. Presentation as part of the Science Month at the Delfini Library, Modena, 30 November 2024.
- Iannace A. (2024) – Interview by Valeria Palumbo on the book *Storia della Terra* (Laterza). *Oggi*, no. 24 (Rizzoli), 14 June, and online: <https://www.oggi.it/video/libri-2/2023/06/14/pianeta-terra-perche-il-nostro-impatto-conta-tanto/>
- Greco E., Giampaola D., Iannace A. (2024) – Naples before Naples. Archaeology and geology of the origins: at the springs of Monte Echia. *Maggio dei Monumenti*, Naples, 18 May.
- Iannace A., Soppelsa O. (2024) – How deep is the sea: fishes and abysses of the Gulf of Naples. *Maggio dei Monumenti*, Naples, 25 May.
- Pantaloni M. (2024) – The contribution of geological sciences to the study of climate change processes. Workshop: What will be the role of the geologist in the near future? University of Basilicata, Potenza, 26 June 2024.
- De Caterini G., Leoni G., Andrisani M.G., Carta R., De Benedetti A.A., De Corso S., Ferrigno F., Fumanti F., Guerra M., Guerrieri L., Lucarini M., Naitza S., Olivetta L., Pantaloni M., Patanè R.A., Serra M., Spizzichino D., Amanti M. (2024) – The relevance of the 1973 mining map of Italy: its revamping in the GeoSciencesIR project. Joint SGI–SIMP Congress, Bari, 2–5 September 2024, p. 363.
- Macini P. (2024) – Hydrocarbon exploration of the Po Valley: the Italian pioneers of seismic reflection surveying. AAPG European Regional Conference, Krakow, 28–29 May 2024.
- Macini P., Mesini E., Argentieri A. (2024) – Reflection vs. Refraction Seismic: Tiziano Rocco and the Development of Applied Geophysics in Italy. Joint SGI–SIMP Congress Geology for a Sustainable Management of Our Planet, Bari, 3–5 September 2024, abstract book: <https://doi.org/10.3301/ABSGI.2024.02>, p. 369.
- Macini P., Pantaloni M. (2024) – Geosciences and engineering of Lungro rock salt: unveiling Italy's longest-lived underground mining site in Calabria. Joint SGI–SIMP Congress, Bari, 2–5 September 2024, p. 368.
- Pantaloni M., Macini P., Console F. (2024) – Antonio Stoppani: a pioneer of petroleum geology and his activity in the Italian oil production industry. Joint SGI–SIMP Congress, Bari, 2–5 September 2024, p. 370.
- Pantaloni M. (2024) – The writings and works of Antonio Stoppani. *The Relevance of Antonio Stoppani: Visions and Challenges of Geosciences in the Third Millennium*, Accademia Nazionale dei Lincei, 24 September 2024.
- Pantaloni M. (2024) – The writings and works of Antonio Stoppani. General Assembly of the Italian Geological Society, 6 December 2024.
- Pantaloni M., Console F. (2024) – The development of geological cartography in Italy. Seminar *Historical and Modern Geological Cartography*, ISPRA – Roma Tre University, 9 April 2024.

- Innamorati G., Fabbi S., Romano M., Argentieri A. (2024) – One against all: fifty years after the geological scheme of Calabria by Leo Ogniben (1973). Joint SGI–SIMP Congress Geology for a Sustainable Management of Our Planet, Bari, 2–5 September 2024.
- Fabbi S., Cestari R., Dominici S. (2024) – The De Filippi expedition (1913–1914) and the geological exploration of the Aksai Chin (Western Tibet). Joint SGI–SIMP Congress Geology for a Sustainable Management of Our Planet, Bari, 2–5 September 2024.
- Punturo R. (2024) – The Loddiero Valley (Hyblean Plateau, south-eastern Sicily): a natural laboratory for understanding climate changes from past to present. International Congress Man and Karst, 24–29 June 2024, Ragusa.
- Punturo R. (2024) – GABARA Mine Park (Sicily): a place of memory recalling the sulfur exploitation. International Congress Man and Karst, 24–29 June 2024, Ragusa.
- Sammuri P. (2024) – The kaolin mine of Torniella – Geology of the deposit and industrial history 1907–2023. Civic Center, Val di Farma (Torniella), 5 January 2024.
- Sammuri P. (2024) – The copper mine of Roccatederighi – From the Copper Age to the 20th century: artefacts and memories. Pro Loco headquarters, Roccatederighi, 20 April 2024.
- Sammuri P. (2024) – The ancient mine of Poggio Mozzeto in the Bai Valley (Roccastrada, Grosseto). Joint SGI–SIMP Congress Geology for a Sustainable Management of Our Planet, Bari, 2–5 September 2024.
- Sammuri P. (2024) – On volcanoes, or ignivomous mountains of Giovanni Targioni Tozzetti (1779). 6th A. Rittmann Conference, Session S05: Volcanology and Archaeology: Bringing the World of Physical Sciences Closer to the Humanities, Catania, 18–20 September 2024.
- Argentieri A., Romano M., Petti F.M., Pantaloni M., Console F., Fabbi S. (2024) – Presentation of the volume *Mente et Malleo*. The Italian Geological Society and its Presidents. Assembly of the Order of Geologists of Lazio, Rome, 6 December 2024.
- Argentieri A., Romano M., Petti F.M., Pantaloni M., Console F., Fabbi S. (2024) – Presentation of the volume *Mente et Malleo*. The Italian Geological Society and its Presidents. General Assembly of the Italian Geological Society, Bari, September 2024.
- Argentieri A. (Siena, 22 May 2024) – Seminar on the theme *The past is the key to the present and the future: The Section for the History of Geosciences of the Italian Geological Society and the GEOITALIANI project*, held at the Department of Physical, Earth and Environmental Sciences (DSFTA) of the University of Siena. Part of the seminar series *The Geologist's Profession: Opportunities and Perspectives*, primarily addressed to undergraduate and graduate students in Geological Sciences, but also open to students of the DSFTA and the university at large.
- Argentieri A., De Caterini G., Rossetti F., Rotella G. (2024) – Elements of the history of geology in the literary work of Luciano Bianciardi. 2024 SISS Conference – Italian Society for the History of Science “The Roots of the Future. Traditions, Innovations and Challenges in the History of Science” (Bari, University of “Aldo Moro”, 29–31 May 2024).

COUNTRY REPORTS (2024)

- Argentieri A., De Caterini G. (2024) – The Autarchic Exhibition of Italian Minerals. Conference Danakil: the contribution of Italian geologists to the exploration of the Afar, Rome, Palazzetto Mattei, 7 June 2024 (ISPRA, Italian Geological Society, Italian Geographical Society).
- De Caterini G., Argentieri A. (2024) – Mineral research in East Africa. Conference Danakil: the contribution of Italian geologists to the exploration of the Afar, Rome, Palazzetto Mattei, 7 June 2024 (ISPRA, Italian Geological Society, Italian Geographical Society).
- Argentieri A., Centamore E., Petti F.M., Tavarnelli E. (2024) – Two forerunners of Northern Apennines tectonics: a tribute to Roberto Signorini and Carlo Ippolito Migliorini. Abstract Book Geology for a Sustainable Management of Our Planet, edited by the Italian Geological Society, p. 356.
- Argentieri A., Occhigrossi B.C., Rotella G. (2024) – Tommaso Tuttoni, a geologist to the Prime Ministership. Abstract Book Geology for a Sustainable Management of Our Planet, edited by the Italian Geological Society, p. 357.
- Argentieri A., De Caterini G., De Ritis R., Romano M., Rotella G. (2024) – Science in the Riviera dei Fiori: “trace elements” of geology in Italo Calvino’s literary output. Abstract Book Geology for a Sustainable Management of Our Planet, edited by the Italian Geological Society, p. 816.
- Argentieri A., Tortonesi E. (2024) – The world in 2D: Alfonso Di Pasquale, between paintings and geological maps. Abstract Book Geology for a Sustainable Management of Our Planet, edited by the Italian Geological Society, p. 815.
- De Caterini G., Argentieri A., Delfini C., Galetto G., Monaco V. (2024) – The Fountain of the Four Rivers (Rome, Piazza Navona) as a representation of the sense of wonder in Baroque art and science. Abstract Book Geology for a Sustainable Management of Our Planet, edited by the Italian Geological Society, p. 823.
- Vaccari E., (2024) - The role of history in the valorization of geosites and geological heritage [in Italian], National Symposium of the Italian Society of History of Science "Le radici del futuro. Tradizioni, innovazioni e sfide in storia della scienza", University of Bari, Italy, 30 May 2024.
- Vaccari E., (2024) - Geological Travels and Mapping in the Himalayan region between the 19th and the 20th century. Session T40–S2 "History of Scientific Travels in Asia and beyond", 37th International Geological Congress, Busan, South Korea, 27 August 2024.
- Vaccari E., (2024) - The Agno Valley and Giovanni Arduino's cross section: an iconic site and a classic image for the birth of lithostratigraphy. Session T27–S3 "Geosites and Georoutes in the History of Geological Sciences", 37th International Geological Congress, Busan, South Korea, 30 August 2024.
- Vaccari E., (2024) - The interdisciplinary challenges of the History of Earth Sciences. XVIII Trobada d'Història del la Ciència i de la Tècnica, Espai Cràter, Olot, Catalonia, Spain, 23 November 2024.

- Vaccari E., (2024) - Presentation (as author of the proposal) of the geo–historical site "Agnò Valley", at the Special Event of announcement of the Second 100 IUGS Geological Heritage Sites. 37th International Geological Congress, Busan, South Korea, 25-31 August 2024.

Conference “Geo-Dì 2024”, Academy of Sciences of Bologna, 15–16 February 2024, Bologna

-Friday 15 February 2024 – Geological and artistic visit to the frescoes of the Bentivoglio and St. Anthony chapels, Basilica of San Giacomo Maggiore – Piazza Rossini 2, Bologna (with Alessandro Ceregato and Gian Battista Vai).

-Saturday 16 February 2024 – SCIENTIFIC SESSION

Papers presented:

-Luigi Bolondi (President, Academy of Sciences), Rodolfo Carosi (President, SGI)

-Gian Battista Vai – After the anniversaries of Giovanni Capellini (1833–1922) and Giuseppe Scarabelli (1820–1905).

-Enrico Curcuruto – Sebastiano Mottura and the Messinian gypsum-sulphur series.

-Paolo Macini – The geological excursions of Giovanni Capellini in Wallachia (1864–65).

-Marco Pantaloni, Fabiana Console, Fabio Massimo Petti – In the footsteps of Hermann Wilhelm Abich: a journey among Italian volcanoes.

-Corinna Guerra – Natural history as a method.

-Giorgio Vittorio Dal Piaz – The world tour of Felice Giordano: new details from some of his letters to Isacco Artom.

-Adele Garzarella – Military geology and historical archives: from De Ambrosis’ monographs to Bulow-Krantz-Sonne’s Wehrgeologie, the role of geology in World War II.

-Stefano Branca, Daniele Musumeci, Luigi Ingaliso – Etna 1971 between history and volcanology.

-Simone Fabbi, Alessio Argentieri, Giovanni De Caterini, Anna Giamborino, Giulia Innamorati, Marco Romano – One against all: the geological scheme of Calabria by Leo Ogniben (1973), fifty years later.

-Stefano Cresta – Neroniade, the garden of stones that speak of Jurassic ammonite paleontologists of the Apennines.

Book Presentations:

-HO SCELTO LA PRIGIONIA by Vittorio Vialli. Contributions by: Silvana and Bruno Vialli, Alessio Argentieri, Luca Alessandrini.

-THE HISTORY OF FOSSIL OVER CENTURIES by Maurizio Forli and Andrea Guerrini. Contributions by: Alessandro Ceregato, Andrea Guerrini, Maurizio Forli.

COUNTRY REPORTS (2024)

-A CACCIA DI DINOSAURI by Federico Fanti. Contributions by: Federico Fanti, Anna Giamborino, Michela Contessi.

Participation in the 49th INHIGEO Annual Symposium, Busan (Korea), 25–31 August 2024 (in association with the 37th IGC 2024):

-Pantaloni M., Macini P., Console F. (2024) – Antonio Stoppani: the founder of Italian geology on the bicentenary of his birth. Poster at the INHIGEO session on "General Contributions on the History of Geological Sciences", 37th International Geological Congress, Busan, South Korea, 25-31 August 2024.

- Vaccari E., (2024) - Geological Travels and Mapping in the Himalayan region between the 19th and the 20th century. Session T40–S2 "History of Scientific Travels in Asia and beyond", 37th International Geological Congress, Busan, South Korea, 27 August 2024.

- Vaccari E., (2024) - The Agno Valley and Giovanni Arduino's cross section: an iconic site and a classic image for the birth of lithostratigraphy. Session T27–S3 "Geosites and Georoutes in the History of Geological Sciences", 37th International Geological Congress, Busan, South Korea, 30 August 2024.

- Vaccari E., (2024) - Presentation (as author of the proposal) of the geo–historical site "Agno Valley", at the Special Event of announcement of the Second 100 IUGS Geological Heritage Sites. 37th International Geological Congress, Busan, South Korea, 25-31 August 2024.

Organization of Field Excursions

-Punturo R. (2024) – Field excursion to the Floristella Grottacalda Mining Park (EN). 12 October 2024. In collaboration with CSR CAI Sicilia.

-Punturo R. (2024) – Field excursion to the Bibbinello quarry (SR). Organized within the activities of the CAI section of Pedara (CT). 19 May 2024.

-Marco Pantaloni, Fabiana Console, Pietro Bianco, Adele Garzarella, Ornella Nonnis, Marina Pulcini, Roberto Crosti, Daniela Paganelli, Federico Araneo, Diego Mantero (2023) – Two itineraries in the territory of the Lazio Maremma: geology, archaeology and nature. 12th edition of the National Festival of Earth Planet Week, 12–13 October 2024, Vulci (VT).

-Marco Pantaloni, Fabiana Console, Pietro Bianco, Daniela Paganelli, Federico Araneo (2023) – The Caldara of Manziana. European Researchers' Night, 20 September 2024, Manziana (RM).

-Marco Pantaloni, Fabiana Console, Pietro Bianco, Daniela Paganelli, Ornella Nonnis, Paola La Valle, Federico Araneo, Daniela Genta, Daniela Paganelli, Ornella Nonnis, Diego Mantero, Lucina Giacomini (2024) – Exploring the Allumiere Tolfa Mountains Archaeological and Geo-Mining Park: a geonatural itinerary among the ancient alunite mines. Allumiere (RM), 25 May 2024.

-Marco Pantaloni, Fabiana Console, Pietro Bianco, Daniela Paganelli, Ornella Nonnis, Paola La Valle, Federico Araneo, Daniela Genta, Daniela Paganelli, Ornella Nonnis, Diego Mantero, Lucina Giacomini (2024) – The Beech Forest of Allumiere: a walk among centuries-old trees and alunite quarries. 26 May 2024.

-Roberto Bencini, Giovanni Bracci, Riccardo Torri (2024) – Guided excursion to the “Punta Gagliarda” site of the former Magnesite Mine of Campolecciano. Organized by the Geo-Mineralogical Group of Livorno APS, 24 March 2024, Rosignano Marittimo (LI).

-Roberto Bencini, Giovanni Bracci, Riccardo Torri (2024) – Guided excursion to the “Botro Massaccio” site of the former Magnesite Mine of Castiglioncello, operated by the Lavelli Company of Milan. Organized by the Geo-Mineralogical Group of Livorno APS, 13 April 2024, Rosignano Marittimo (LI).

-Roberto Bencini, Giovanni Bracci, Riccardo Torri (2024) – Guided excursion to the “Pian della Rena” and “Grottone” sites of the former Montenero I Talc and Steatite Concession. Excursion combined with the seminar An important past: mineral resources and mines of the Monti Livornesi, organized by the Geo-Mineralogical Group of Livorno APS, 1 June 2024, Livorno.

Teaching Activities:

-Course in History of Geology (6 CFU), Bachelor's Degree in Geological Sciences, Sapienza University of Rome – Department of Earth Sciences (course instructor: Marco Romano).

-Course in History of Paleontology and Earth Sciences (6 CFU), Master's Degree in Logic, Philosophy and History of Science, University of Florence (course instructor: Lorenzo Rook).

-Course in History and Resources of Mountain (6 CFU), Bachelor's degree in Environmental Sciences, University of Insubria, Varese - Department of Theoretical and Applied Sciences (course instructors: Ezio Vaccari and Maria Faccioli)

Articles in Scientific Journals or Volumes

-Contessi M., Fiorillo A.R., Fanti F. (2024) - Three of North America's geoheritage sites and the lost 1863 exploration of Giovanni Capellini. From: Clary, R. M., Pyle, E. J. and Andrews, W. M. (eds) *Geology's Significant Sites and their Contributions to Geoheritage*. Geological Society, London, Special Publications, 543. <https://doi.org/10.1144/SP543-2022-219>

-Muto F., Biondino D., Crisci G.M., Marabini S., Procopio F., Scarciglia F. & Vai G.B. (2024) - Pages of Earth History in an Exceptional Uniqueness: The Geo-Heritage of the Sila National Park and its Spheroidal Boulders Geosite (Northern Calabria, Italy). *Geoheritage* (2024). <https://doi.org/10.1007/s12371-024-00937-x>

-Macini P. (2024) - Giovanni Capellini's travels in the Danubian Principalities (1864–1865): an unpublished geological diary from the 19th century. *AMS Acta*, University of Bologna. <https://doi.org/10.6092/unibo/amsacta/7952>

COUNTRY REPORTS (2024)

- Roghi G. (2024) - The geological travels of Achille de Zigno in the Dolomites during the spring of 1846. *Earth Sciences History*, 43(1): 27–41.
- Roghi G. (2024) - Abramo Massalongo as a scientist: modern scientific developments of some studies by Abramo Massalongo (1824–1860). *La Lessinia Yesterday, Today, Tomorrow. Cultural Notebook*, vol. 2024: 45–48.
- Vai G.B. (2024) - History of the restoration of Aldrovandi's plaques and of the 8th Centenary at the Archiginnasio. *Annales. Proceedings of the Academy of Sciences of Bologna. Class of Physical Sciences*. <https://doi.org/10.30682/annalesps2402d>
- Scoth R., Dal Piaz G.V. & Pantaloni M. (2024) - The correspondence between Felice Giordano and Quintino Sella. Third and final part (2.5.1877–26.2.1884). *Rivista di Storia dell'Università di Torino*, XIII(1): 1–94.
- Pantaloni M. (submitted) - The writings and works of Antonio Stoppani. *Memorie di Scienze Fisiche, Accademia dei XL*.
- Sammuri P., Scapigliati W. (2024, in press) - The medieval mine of Poggio Muzzeto in the Bai Valley (Roccastrada, Grosseto). *Geology and history of the deposit. Atti della Società Toscana di Scienze Naturali. Memorie, Serie A*, 131.
- Vaccari E. (2024) - An overview of the development of stratigraphy in Italy during the 17th and 18th centuries: from Steno to Arduino. *Earth Sciences History*, 43(1): 2–12.
- Fabbi S., Sha J., Cestari R. & Dominici S. (2024) - The contribution of the De Filippi Expedition (1913–1914) to the geological knowledge of the Aksai Chin Region (Western Himalaya). *Earth Sciences History*, 43: 86–100. <https://doi.org/10.17704/1944-6187-43.1.86>
- Argentieri A. (2024) - From the Apennines to Patagonia: the Italians who “discovered” oil. In *Tales from Argentina. Myths and Memories at the End of the World* (eds. A. Argentieri, F. Bovaio, A. Santicchia), Edizioni Eraclea: 86–92.
- Vaccari E. (2024) - Arduino's lithostratigraphic sequence of the Agno Valley, Italy. In *The Second 100 IUGS Geological Heritage Sites: 22–23*. IUGS – International Union of Geological Sciences.
- Argentieri A., De Caterini G., Rossetti F., Rotella G. (2024) - It's a hard life in Maremma: Luciano Bianciardi and the history of geology. *Rendiconti Online della Società Geologica Italiana*, 62: 191–202.
- Barale L., Bicknell M. (2024) - Clarence Bicknell (1842–1918): botanist, archaeologist, Esperantist, and... citizen geologist. *Rendiconti Online della Società Geologica Italiana*, 62: 160–190. <https://doi.org/10.3301/ROL.2024.19>
- Borghi A., Giacobino E., Gallo L., Senesi M. (2024) - The historical collection of minerals and rocks from Egypt preserved at the Regional Museum of Natural Sciences (Turin, Italy). *Rendiconti Online della Società Geologica Italiana*, 62: 143–152.
- Dal Piaz G.V. (2024) - Felice Giordano, a great geo-Italian. *Rendiconti Online della Società Geologica Italiana*, 62: 130–142. <https://doi.org/10.3301/ROL.2024.16>

- Fabbi S., Console F., Pantaloni M., Principe C. (2024) - The geognostic map of the Phlegraean Fields by Bonaventura Montani (1856): the Bagnoli–Agnano reclamation area. *Rendiconti Online della Società Geologica Italiana*, 62: 89–102.
- Foresta Martin F. (2024) - Marcello Carapezza (1925–1987), a pioneer of geochemical surveillance of active volcanoes. *Rendiconti Online della Società Geologica Italiana*, 62: 82–88.
- Lupi C., Console F., Severino F. (2024) - Torquato Taramelli (1845–1922), pioneer of the glossary and the lithostratigraphic series for modern geology in Italy between 1867 and 1881. *Rendiconti Online della Società Geologica Italiana*, 62: 118–129.
- Macini P. (2024) - Giovanni Capellini’s journey to Wallachia (1864): travel notes and early insights into petroleum geology. *Rendiconti Online della Società Geologica Italiana*, 62: 72–81. <https://doi.org/10.3301/ROL.2024.07>
- Mazzini I., Talenti E., Innocenti G., Cianfanelli S. (2024) - Marianna Paulucci Panciatici Ximenes d’Aragona: the geological interests of the first female member of the Italian Geological Society. *Rendiconti Online della Società Geologica Italiana*, 62: 1–14.
- Romano M. (2024) - Fossils as a source of myths, legends and folklore. *Rendiconti Online della Società Geologica Italiana*, 62: 103–117.
- Sella M. (2024) - Quintino Sella, mining engineer in Sardinia. *Rendiconti Online della Società Geologica Italiana*, 62: 153–168.
- Argentieri A., Rotella G., Fabiani M., Capelli G., Mazza R., Raffi R. (2024) - What lies beneath? A brief history of the exploration of volcanic lake beds in the metropolitan area of Rome (Central Italy). *Acque Sotterranee – Italian Journal of Groundwater*, AS48-760: 133–138. <https://doi.org/10.7343/as-2024-760>.
- Argentieri A. (2024) - La sosta di Papa Pio VII in Valdelsa (Toscana) – The stopover of Pope Pius VII in the River Elsa Valley (Tuscany). *Acque Sotterranee – Italian Journal of Groundwater* (2024) – AS49-797: 45–48. <https://doi.org/10.7343/as-202-797>
- Argentieri A., De Caterini G., Rotella G. (2024) - Cesare Cipolletti, dall’isola Tiberina alle Ande – Cesare Cipolletti, from the Tiber Island to the Andes. *Acque Sotterranee – Italian Journal of Groundwater* (2024) – AS50-818: 173–177. <https://doi.org/10.7343/as-202-818>.

Thematic Volumes and Books

- Argentieri A., Romano M., Petti F.M., Pantaloni M., Console F. & Fabbi S. (2024) – *Mente et Malleo. La Società Geologica Italiana e i suoi Presidenti*. Società Geologica Italiana. Collective thematic volume retracing the history of the Italian Geological Society and its Presidents.
- Special Issue “Geology is coming home. A renewed interest in Italian geoscientific tradition”, edited by Argentieri A., Barale L., Mosca P., Pantaloni M. (2024). Special issue of *Rendiconti online della Società Geologica Italiana*, vol. 62.

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-Special Issue “History of stratigraphy, travels and mining: some Italian perspectives”, edited by Vaccari E. (2024). Earth Sciences History, vol. 43(1).

-Erba E., Barchi M., Catalano R., Dal Piaz G.V., Doglioni C. & Orombelli G., eds. (2024) – Le prospettive della Geologia italiana: dall’eredità scientifica di Antonio Praturlon alle nuove frontiere e applicazioni. Atti dei Convegni Lincei, 364, 181 pp.

-Passeri L. & Dal Piaz G.V. (2024) – Geologia della Valle d’Aosta. Guida fotografica. Tipografia Pesando, Aosta, 175 pp.

Columns

-Rubric of the History of Geosciences Section in the journal GeologicaMente no. 13

Argentieri A., Pantaloni M. (2024) – 100 anni di Vincolo Idrogeologico e Forestale [100 years of Hydrogeological and Forestry Constraint], p. 54.

-Rubric of the History of Geosciences Section in the journal GeologicaMente no. 14

Fabbi S., Romano M. (2024) – CULTURA GEOLOGICA e memoria storica [GEOLOGICAL CULTURE and historical memory], p. 62.

-Rubric of the History of Geosciences Section in the journal GeologicaMente no. 15

Romano M., Fabbi S. (2024) – Presentazione del volume societario “Mente et Malleo” [Presentation of the society volume “Mente et Malleo”], p. 54.

Geoitaliani Blog

Several short notes have been published on the section's blog, authored by various members. Since its creation, the blog has recorded over 580,000 visits, with a recent daily average of approximately 100 visits.

-Argentieri A. (2024) – One hundred years of hydrogeological and forestry constraint. January 4, 2024

-Editorial Team (2024) – BACK TO THE FUTURE. History of geological studies and mapping as a key for sustainable development. March 24, 2024

-Tortonesi E. (2024) – The two stories of a postcard painted by the artist and cartographer Alfonso Di Pasquale. May 2, 2024

-Argentieri A., De Caterini G., Rossetti F., Rotella G. (2024) – Luciano Bianciardi and the Ribolla mine explosion of May 4, 1954. May 4, 2024

-Scalise A.R. (2024) – Mario Valletta: researcher and surveyor of the Geological Map of Italy, professor and science communicator in the Geosciences. August 10, 2024

-Accornero G. (2024) – Story of a mastodon mandible. October 25, 2024

-Accornero G. (2024) – In memory of Prof. Giovanni Charrier. October 31, 2024

Awards and Recognitions supported by the Section

On the occasion of the joint SGI (Italian Geological Society) – SIMP (Italian Society of Mineralogy and Petrology) Congress, Geology for a Sustainable Management of our Planet (Bari, 3–5 September 2024), the “Quintino Sella Prize for the History of Geosciences in honour of Nicoletta Morello and Bruno Accordi” was awarded. The prize was conferred to Francesco Vezzani (University of Udine; University of Trieste; École des hautes études en sciences sociales, Paris), who presented an insightful study on the Jesuit scientist Angelo Secchi (1818–1878), an astronomer and geodesist, who also showed interest in animal evolution.

The article by Vezzani et al. is an excerpt from the volume “A proposito di organismi, evoluzione e conoscenza” [On Organisms, Evolution and Knowledge], edited by A. Maccarocci and V. Rasini (Meltemi, 2023), which gathers both the proceedings of the conference “Organisms, Evolution and Knowledge,” organized by Unimore, Department of Linguistic and Cultural Studies (Modena, 21 April 2023), and several external contributions (among which is the article by Vezzani et al.).

Awards and Honours granted to Members of the Section

- Paolo Sammuri – on 3 June 2024 he was appointed as a member of the Accademia dei Fisiocritici of Siena, founded in 1691.

Marco ROMANO

JAPAN

Report submitted by Hirokazu Kato, Shigeo Kato and Michiko Yajima, in Tokyo; and by Toshihiro Yamada, in Tateyama, Chiba.

Two meetings of JAHIGEO (Japanese Association for the History of Geological Sciences) were held in 2024. The summer meeting was held on June 15th at the Hokutopia, Tokyo. NAKAJIMA Yumi talked on “A Study on Hiraga Gennai’s Journey to Akita” (Fig. 1) and OGAWA Yujjro gave a presentation on “New view of geology and tectonics of the North American Cordillera: A review”.



Fig. 1 Presentation by Yumi Nakajima at the JAHIGEO meeting (Tokyo, June 2024)

The winter meeting was held on December 21st at the Hokutopia, Tokyo. YATSUMIMI Toshifumi presented “Manhattan Project and the Minamata disease: The history of geochemistry in Japan for 20 years since the end of the war” and YAJIMA Michiko talked about “The 150 years’ history of palaeontology in Japan”.

The 71st annual meeting of the History of Science Society of Japan (HSSJ) was held on May 25-26 at the University of Tokyo (Komaba Campus). Four papers on the history of geosciences were read; YAMADA Toshihiro, “‘Decentralization’ Historiography of Science: Copernican and Stenonian Revolutions” (in the style of on demand); YAJIMA Michiko, “Marie Stopes visited Japan and Kono YASUI got Science Doctorate Degree”; KATO Shigeo, “On Geographical Research in China by Tokyo Geographical Society”; and HISHIKI Huuka “The Mathematician Dairoku Kikuchi’s View Shift on Earthquake Investigation Committee.”

On May 26, the Japan Geoscience Union (JpGU) provided *in-situ* (International Conference Hall, Makuhari Messe) and on-line sessions for geoscience studies: historical, philosophical and STS approaches, in which five talks and seven posters were presented and discussed with approximately 30 participants in the room for oral presentations.

Five talks were convened by Shigeyuki Aoki, Michiko Yajima, Toshihiro Yamada and Akira Yamamoto (see Aoki et al.):

1. NAKAGAWA Tomomi, “Missionary of Professionalism: The Shared Vision of the American Geological Advisors from the United States”;
2. YATSUMIMI Toshifumi, “Toyohiko Kagawa and Petrology, and V. I. Vernadsky”;
3. MIYAGAWA Takuya, “Japan’s Returning to International Academia: Meteorology and Oceanology in Postwar East Asia”;
4. TOCHINAI Fumihiko, “The Potential of *Chigaku* Education as Liberal Arts in Today’s Science-and-Technology Dependent Society”;
5. MORIKITA Nayuta and MATSUO Masahiro, “Discourse on Idealization in Philosophy of Science and a Case Study from Petrology: Examination of the Partial Melting Model”.

Seven posters were:

1. OZAWA Takeshi, “G. Leibniz and Japanese-German Peter Hartzing in Harz mine, Germany”;
2. HATTORI Kentaro and NAKANISHI Ichiro, “Source of descriptions of the Hoei eruption of Mt. Fuji”;
3. SHIMAZU Toshiyuki, “The establishment and origins of the Statutes of the Tokyo Geographical Society”;
4. HAYASHIDA Akira, ““The Geologic Structure” drawn by Joseph Hardy Neesima”;
5. YAJIMA Michiko, “Kono Yasui (1880–1971) and Marie Stopes (1880–1958)”;
6. YAMADA Toshihiro, ““Anthropocene’ in the Regions: A History of Regional Geographies Written by Humanistic Geologists in Japan”;
7. AOKI Shigeyuki, “Philosophy of Earth and Planetary Sciences after Kuhn”.

Several members of JAHIGEO participated in the 49th INHIGEO Symposia held in the 37th International Geological Congress, BEXCO, Busan, Republic of Korea, from 26 to 30 August 2024. In the T40-S1 ‘History of women’ session, August 26th, YAJIMA Michiko made a presentation about “Marie Stopes (1880–1958) and Kono Yasui (1880–1971): the beginning of paleontology in Japan”. The next day, August 27th afternoon, the T40-S2 ‘History of geoscientific travels’ session was held including the following talks: YAMADA Toshihiro, “Ennin’s Pilgrimage Travel in China: Japanese Buddhist Geo-consciousness in the Ninth Century,” OZAWA Takeshi, “Drainage work at the Clausthal mine in the Harz region in the 17th century: Achievements of the Japanese Peter Hartzing (1637–1680),” NAKAGAWA Tomomi, “Professional Travelers: Expanding Process of Professionalism in the Nineteenth-Century United States,” YAJIMA Michiko, “Prussian geographer J. J. Rein travelled to Japan in 1873–76 and introduced Japan to the world,” and KATO Shigeo, “Multifaceted Nature of Japanese Geological Explorations amid Japanese Imperial Expansion to China in the early 20th century.” The T38-S1, ‘Anthropocene, History and the Geosciences: contributions to contemporary debates’ was an interesting session held on August 29th in which YAMADA Toshihiro presented “The Historiography of the Earth and ‘Anthropocene’: Regional Geo-history and Possible Worlds in the Steno-Leibniz Process.”

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Fig. 2 Presentation by Takeshi Ozawa at the IGC-INHIGEO symposium (Busan, August 2024; photo by Tomomi Nakagawa). Ozawa became an ordinary member of the INHIGEO.

JAHIGEO had a big event, the Northern Kyushu Excursion in Japan, after the Congress in Busan. Our active member Michiko Yajima planned it with the support of Mr. Tatezawa of Geo-planning Co. and accomplished successfully despite of the ship cancelling and typhoon attacking.

There were 26 participants from 12 countries: Carol Anne Bacon, Gregory Clota (AUSTRALIA), Marianne Klemun (AUSTRIA), Clara Hamm, David Hamm, Ernst Hamm, Alison Li (CANADA), Françoise Dreyer (FRANCE), Martin Ebert, Martina Kölbl-Ebert (GERMANY), Kathleen Histon (IRELAND), Ezio Vaccari, Claudia Principe (ITALY), Piotr Krzywicz (POLAND), Leonid Kolbantsev (RUSSIA), Sharad Master, Michel Dean (SOUTH AFRICA), John Diemer (USA), and Tomoko Fukukawa, Nanayo Fukumori, Takako Honjo, Michiya Inomata, Shigeo Kato, Tomio Tatezawa, Michiko Yajima, Toshihiro Yamada (JAPAN).

On September 1st, they boarded the *New Camellia* from Busan Port, arrived at Hakata Port early on the morning of the 2nd, and entered Japan. Master and Dean from South Africa entered Japan by plane. Inomata, Fukukawa, Fukumori, Tatezawa, and Yamada gathered in Hakata directly.

On September 2nd, we took a bus and visited the Izumiyama Quarry and Imaemon Kiln in Arita, where we had the opportunity to meet the Living National Treasure Imaemon XIII and observe the tea bowl manufacturing process (Fig. 3). After lunch, we visited the site of the pyroclastic flow that occurred in June 1991, which claimed many lives, including three volcanologists (Fig. 4). Claudia Principe from Italy paid tribute to her colleagues, Mr. and Mrs. Krafft, and introduced their achievements. Then we went to the Gamadas Dome (Volcano Exploratorium) in Shimabara and observed the Unzen Jigoku (Hell) field, staying at the Seiunso Hotel in Unzen Onsen.

On September 3, we first visited the Unzen Ropeway. At the observation deck at the end of the Unzen Ropeway, we were greeted by a Japanese butterfly (Fig. 5). We then visited the Nagasaki City Dinosaur Museum (Fig. 6), Nagasaki Atomic Bombing Site, and Nagasaki Peace Park (Fig. 7). After a farewell party at a Japanese-style pub in front of the station, we stayed at the Hotel New Nagasaki. We had drinks at the hotel bar until late at night.



Fig. 3 We met the Living National Treasure Imaemon XIII (center) at the Imaemon Kiln in Arita



Fig. 4 At the pyroclastic flow disaster point in 1991, down from Mt. Unzen-Fugen dake

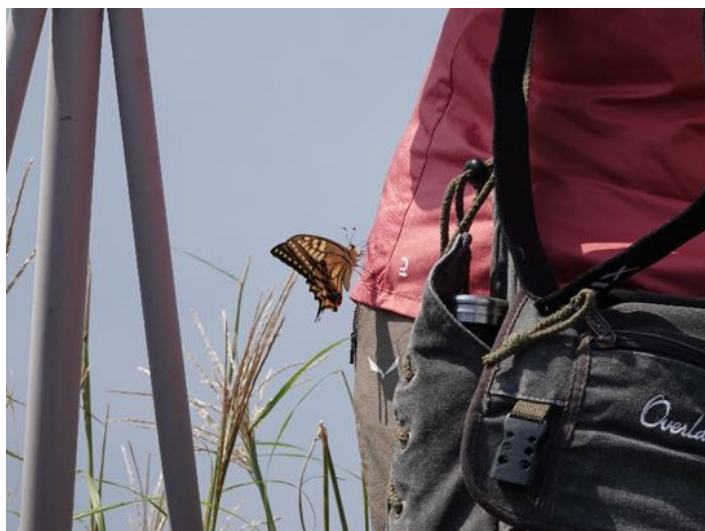


Fig. 5 Greeted by a Japanese butterfly at the observation deck of the Unzen Ropeway (photo by Piotr Krzywiec)



Fig. 6 The Curator Daisuke Nakatani (center, from behind) at the Nagasaki City Dinosaur Museum provided an explanation of the exhibition.



Fig. 7 In front of the Peace Statue in the Nagasaki Peace Park

In 2024, the JAHIGEO issued its *Bulletin*, Numbers 62 and 63 (in Japanese), and the *JAHIGEO Newsletter*, Number 25 (in English).

JAHIGEO Bulletin no. 62 (2024), published in May, included 4 articles.

1. OZAWA Takeshi: Peter Hartzing and G.W. Leibniz at the Clausthal mine, pp. 2-9;
2. YAJIMA Michiko: Kono YASUI (1880–1971) and Marie Stopes (1880–1958), pp. 10-13;
3. HARA Ikuo: Structural geology of the Sambagawa belt in central Shikoku, Formation history of bedding schistosity, pp. 14-21;
4. YAMADA Toshihiro: Studies on Steno’s Shark’s head dissected (1667) with its translation into Japanese (5), pp. 22-29.

JAHIGEO Bulletin no. 63 (2024), published on November 30th, included 7 articles and two reports.

Seven articles are:

1. NAKAJIMA Yumi: A Study on Hiraga Gennai’s Journey to Akita”, pp. 3-10.
2. OGAWA Yujiro, “New view of geology and tectonics of the North American Cordillera: A review (Part 1)”, pp. 11-18.
3. OGAWA Yujiro, “New view of geology and tectonics of the North American Cordillera: A review (Part 2)”, pp. 19-26.

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4. HARA Ikuo, “Recent structural geology of the Shirataki recumbent anticline of the Sambagawa belt, central Shikoku”, pp. 27-34.
5. HARA Ikuo, “Structural geology of northward vergence recumbent syncline of the Sambagawa belt in the Sarutagawa-Akaboshiyama district, central Shikoku”, pp. 35-40.

Two Reports are:

6. YAMADA Toshihiro, “Geosciences History Sessions at the 37th International Geological Congress (37IGC): An INHIGEO Report”, pp. 41-48.
7. KATO Shigeo and YAJIMA Michiko, “Northern Kyushu Excursion of 49th INHIGEO”, pp. 49-52.

JAHIGEO Newsletter, Number 26 (2024) includes two papers:

1. OZAWA Takeshi, “The drainage project at the Clausthal mine in the 17th century and the contributions of the Japanese mining engineer, Peter Hartzing (1637–1680)”, pp. 2-8.
2. YAMADA Toshihiro, *Diary Discovered: Mochizuki Katsumi (1905–1963), His Hidden Contributions to the History of the Geosciences in Japan*, pp. 9-17.

Recent activities and publications of INHIGEO members in Japan are as follows:

AOKI Shigeyuki, Yajima Michiko, Yamada Toshihiro, and Yamamoto Akira (2024): “Report on the History and Theory of Geoscience Session at the 2024 Japan Geoscience Union Meeting: A post-COVID hybrid event,” *Kagakusi Kenkyu* (Journal of History of Science, Japan), vol. 63, no. 311, pp. 321-323.

AIDA Nobuyuki is one of 15 editors of *Saishin Chigaku Jiten* [The Newest Edition of Encyclopedia of Earth Sciences] (Tokyo: Heibonsha, 2024). He was in charge of the domain of the history of geosciences and wrote many items such as Aristotle, Kepler, and C. A. Netto. There are also contributed by INOMATA Michiya on Masao Gorai, by KATO Hirokazu on Kenji Miyazawa, Satoshi Suzuki, etc., and by YAJIMA Michiko on F. M. Hilgendorf, J. J. Rein, etc. [Jp.]

AIDA Nobuyuki, “Chiba Section of Tabuchi, Ichirara City, Chiba Prefecture (Outcrops in Japan No.35).” *Earth Science (Chikyū Kagaku)*, vol. 78, no. 4, p. 125. [Jp.]

AIDA Nobuyuki (2025): “Geoscience of Funabashi City,” in N. Aida and F. Okazaki, eds., *The Dawn of Funabashi City: Prehistoric Era of Shimousa Plateau*, Tokyo: Kodansha Editorial, 2015, pp. 13-136. [Jp.]

ISHIWATARI Akira (2024): “Descriptions of earthquakes, tsunamis, and volcanic eruptions in Nihon sandai jitsuroku [Record of three generations in Japan] in Heian Era: Remarkable records of a series of westward earthquake occurrences,” *Nihon chishitsu gakkai (Geological Society of Japan) News*, 25 (10), pp. 8-9. [Jp.]

ISHIWATARI Akira (2025): “Japanese geologists who proposed reverse fault theory for the deep seismic zone before Benioff,” *Nihon chishitsu gakkai (Geological Society of Japan) News*, 28 (1), pp. 14-15. [Jp.] <https://geosociety.jp/faq/content1183.html>

ISHIWATARI Akira (2025): “Yehara (1942) preceded Benioff (1949) in recognizing subduction (underthrust) of the Pacific Ocean floor along deep seismic zones,” *JAHIGEO (Japanese Association for the History of Geosciences) Newsletter*, no. 27, pp. 1-9.

KATO Hirokazu (2024): “Miyazawa Kenji’s literary works perused from the viewpoint of

- culture geology,” in H. Suzuki, *et al.* eds., *Culture geology in the island arcs*, Kyoto University Press, pp. 306-321. [in Jp.]
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- NAKAGAWA Tomomi was a co-author of the following article:
Takarabe Kae, NAKAGAWA Tomomi and Yamamoto Akira (2024): History of Meteorology in Early America: Focusing on James Fleming’s *Historical Perspectives on Climate Change*, *Boekifu: Chubu international review*, no.19, pp. 65-77. [Jp.]
- OZAWA Takeshi (2024): „Über die Entwässerungsarbeiten in der Harzer Bergbauregion um Clausthal während der 1670er Jahre: Mit einem besonderen Augenmerk auf das Wassermühlenprojekt des Peter Hartzing (1637–1680),“ *Historia Scientiarum*, vol. 33, no. 2, pp. 89-99.
- OZAWA Takeshi (2024): “Peter Hartzing and G.W. Leibniz at the Clausthal mine,” no. 62, *JAHIGEO Bulletin*, pp. 2-9 [Jp];
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- YAJIMA Michiko (2024): “WAKIMIZU Tetsugoro (1867–1942), The forerunner of *Buratomori*.” *Il Saggiatore*, no. 51, pp. 39-40. [Jp.]
- YAJIMA Michiko (2024): “Marie Stopes (1880–1958), plant fossils, birth control and married love,” *The Japanese journal of the history of biology*, no. 103, pp. 103-105. [Jp.]
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YATSUMIMI Toshifumi (2024): “People who sought chemistry without national boundaries during wartime: Department of Chemistry of the Shanghai Natural Science Institute,” *Chemistry & Education (Kagaku to Kyoiku)*, vol. 72, no.3, pp.4-7. [Jp.]

YATSUMIMI Toshifumi wrote the chapter of geochemistry in the following series:

Editorial Committee of History of Geosciences in Japan, Tokyo Geographical Society (2024): “Trends of Geosciences after the Pacific War in Japan, 1945 to 1965, Part 8, Geochemistry,” *Journal of Geography (Chigaku Zasshi)*, vol. 133, no. 3, pp.219-240. [Jp.]

YAMAMOTO Akira has organized two workshops on the history of meteorology (Meteorological History Research Liaison Committee, Meteorological Society of Japan; <https://sites.google.com/site/meteorolhistoryjp/>)

1) 15th Meteorological History Workshop ‘Development of urban climate research in Japan: Significance of long-term meteorological observation in urban climate research’

Date: May 18, 2024; Venue: National Institute of Informatics, Tokyo.

1. FUJIBE Fumiaki, “Looking back on urban climate research in Japan.”

2. MIKAMI Takehiko, “Ninety-eight-year history of a local station, Kichijoji-Seikei Meteorological Observatory.”

2) 16th Meteorological History Research Meeting ‘How did people make calculations in the early days of numerical forecasting?’

Date: November 14, 2024; Venue: Tsukuba International Congress Center, Ibaraki Prefecture.

1. MAEYAMA Kazuki, “Maeyama Evolution of scientific and technological computing: Focusing on the HITAC 5020 and its era.”

2. FURUKAWA Takehiko, “How were calculations performed at the Japan Meteorological Agency in the 1960s and 1970s?”

YAMAMOTO Akira was also a co-author of the following articles:

Takarabe Kae, Nakagawa Tomomi and YAMAMOTO Akira (2024): History of Meteorology in Early America: Focusing on James Fleming’s *Historical Perspectives on Climate Change*, *Boekifu: Chubu international review*, no.19, pp. 65-77. [Jp.]

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LITHUANIA

Report submitted by Algimantas Grigelis and Eugenija Rudnickaitė

In 2024, the Lithuanian INHIGEO group, led by Prof. Acad. **Algimantas Grigelis**, consisted of 5 members: Dr. **Gailė Žalūdienė**, Prof. **Valentinas Baltrūnas**, Prof. **Algimantas Česnulevičius** and Dr. **Eugenija Rudnickaitė**.

In 2024, Academician Algimantas Grigelis actively worked on various topics of the history of geological sciences, raised up the different items of great importance for development of geological sciences also education in Lithuania. He widely introduced a memory medal of famous mineralogist Ignacy Domeyko, also created Academician Vytautas Gudelis foundation in the Lithuanian Society. Summary, prof. Grigelis has published 20 scientific publications, partly on the Internet, and he was mentioned in seven publications as outstanding geoscientist in Lithuania.

In 2024, the Lithuanian INHIGEO Group focuses on the research and publicity of biographies of persons deserving of geological science and the history of geological institutions. It also takes care of the popularization of geological science.

Important personal news should be noted that Environmental Prize Geographer's Prof. Česlovas Kudaba Award – 2024 awarded to geologist Dr. Hab. Valentinas Baltrūnas on 5 June 2024, in Vilnius: „For the popularization of nature studies, the dissemination of the cognitive and cultural value of natural heritage, publications on environmental protection issues“. *Geologijos akiračiai*. – Vilnius, 2024, nr. 3/4, p. 19–20. http://www.lgeos.lt/GA/GA_numeriai/2024/GA2024_3_4/019_20_SEIRIENE_GA_3_4_2024.pdf.

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Above: Award ceremony at the Presidency of the Republic of Lithuania, 5 June 2024. From the right: The President of the Republic of Lithuania Gitanas Nausėda, laureate Dr. Hab. Valentinas Baltrūnas and Minister of Environment Simonas Gentvilas. (*Photo from the archive of the Ministry of Environment of the Republic of Lithuania*). https://www.lrt.lt/naujienos/lietuvoje/2/2289916/aplinkosaugine-kudabos-premija-iteikta-geologui-baltrunui?srsltid=AfmBOod6HjUM_1e9bEYhJ6U1bOieXM8mGk8gaI18xVpWLRBOEi_agOR

The members of Lithuanian group took part with scientific reports on several national and international events during the reporting year:

- XXXI Baltic Conference on the History and Philosophy of Science, Tartu 2024. Scientific Instruments in History and Philosophy of Science, Technology and Medicine. University of Tartu, Estonia, 13-15 June 2024.
- Conference of Lithuanian Society of Science Historians and Philosophers „SCIENTIA ET HISTORIA – 2024“. 4 - 5 April 2024, Vilnius, Lithuania.
- Conference: Eugenija Rudnickaitė. 2024. Jubiliejinės sukaktys: geologijos mokslo populiarinimas bei neformalaus gamtamokslinio ugdymo VU geologijos muziejuje aktyvinimas [*Anniversaries: Promoting Geological Science and Activating Non-Formal Science Education at the VU Geological Museum*]. *Gamtamokslinis ugdymas bendrojo ugdymo mokykloje- 2024 / Natural Science Education in a Comprehensive School -2024*, 30, 55–60.

ISSN 2335-8408. <https://doi.org/10.48127/gu/24.30.55> CGIJ OAJI: 0.201 (2018)

- *THEMATIC CARTOGRAPHY OF LITHUANIA: FROM THE PAST TO THE PRESENT. National Conferences for 410 Anniversary of Mikolaj Krzysztof Radiwill Map. Scientific reports, Vilnius, April 18, 2024*

In addition, some exhibitions, excursions and presentations about achievements in Lithuanian geology were organized for the public.

SELECTED WORKS ON HISTORY OF GEOLOGY OF LITHUANIA, 2024

Detailed topics are expressed in list of selected works of group members given below.

Selected bibliography prof. Acad. Algimantas Grigelis, 2024

1. Lietuvos žemės gelmių turtai visuomenės gerovei [Lithuanian subsoil resources for the benefit of society] : publikacijų, paskelbtų laikraštyje „*Mokslo Lietuva*“ 2024 m., rinkinys : preprintas / Algimantas Grigelis, Antanas Marcinonis, Ginutis Juozapavičius, Algimantas Česnulevičius, Saulius Gadeikis ; Lietuvos mokslų akademija, Geologijos įmonių asociacija, Vilniaus universiteto Geomokslų institutas, Nacionalinė inžinierių geologų draugija ; sudarė Algimantas Grigelis; redaktorius Jonas Jasaitis [elektroninis išteklius]. – Vilnius, 2024, gruod. 30. Prieiga per internetą: <https://www.lma.lt/news/2578/38/Skelbiamas-straipsniu-rinkinys-Lietuvos-zemes-gelmiu-turtai-visuomenes-gerovei>.
2. Ar mūsų valstybė turi naudingų iškasenų? [Does our country have useful minerals?] / Algimantas Grigelis, Antanas Marcinonis. – Iliustr., portr. // *Mokslo Lietuva* [elektroninis išteklius]. – Vilnius, 2024, liep. 25 (nr. 14), p. 2, 4–5. Prieiga per internetą: https://www.lma.lt/uploads/files/2024-07-25_Ar_turi_Lietuva_naudinguju_iskasenu.pdf; *Utenos diena* [elektroninis išteklius]. – 2004, rugs. 4. Prieiga per internetą: <https://udiena.lt/indraja/ar-musu-valstybe-turi-naudingu-iskasenu/>.
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4. A. Grigelis. Didysis švietėjas Ignotas Domeika – mokslo apaštalas : 220 metų sukakties atgarsiai. [The great educator Ignotas Domeika – the apostle of science. *Echoes of the 220th anniversary*] – Iliustr., nuotr., portr. – Bibliogr.: 21 pavad. // *Geologijos akiračiai*. – Vilnius, 2024, nr. 1/2, p. 81–86.

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6. Algimantas Grigelis. Iškiliems mokslininkams įteikti Ignoto Domeikos atminimo medaliai. [Ignotas Domeika Memorial Medals awarded to outstanding scientists] – Nuotr. // *alkas.lt* [elektroninis išteklius]. – 2024, gruod. 26. Prieiga per internetą: <https://alkas.lt/2024/12/26/iskiliems-mokslininkams-iteikti-ignoto-domeikos-atminimo-medaliai/>.
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11. A. Grigelis. Naujasis Lietuvos mokslų akademijos Jaunosios akademijos narys. [New member of the Young Academy of the Lithuanian Academy of Sciences] – Nuotr. – Bibliogr.: 2 pavad. // *Geologijos akiračiai*. – Vilnius, 2024, nr. 1/2, p. 90–92.
12. Algimantas Grigelis. Nauji Ignoto Domeikos medalio laureatai. [New Ignotas Domeika Medal laureates] – Nuotr. // *Mokslo Lietuva* [elektroninis išteklius]. – Vilnius, 2024, birž. 15

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Apie A. Grigelio fosilinių jūros periodo foraminiferų kolekciją, kurią padovanojo Gamtos tyrimų centrai.

23. Jankovska Miglė. XXXIV Lietuvos geologų sąjungos suvažiavimas. – Nuotr. // *Geologijos akiračiai*. – Vilnius, 2024, nr. 1/2, p. 78–80.

Renginio metu A. Grigelis įteikė 2002 m. ekspedicijos Čilėje dalyviams Ignoto Domeikos atminimo medalius.

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Selected bibliography Valentinui Baltrūnas, 2024

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31. Baltrūnas V. „*Tai buvo ilga kelionė savęs link*“. Geologės ir geomorfologės habil. dr. Valerijos Čepulytės (1904-1987) 120-ųjų gimimo metinių minėjimas. Gamtos tyrimų centras, Lietuvos geologų sąjunga, 2024-02-23 [„*It was a long journey towards myself*“. Commemoration of the 120th anniversary of the birth of geologist and geomorphologist Dr. habil. Valerija Čepulytė (1904-1987). *Nature Research Centre, Geological Society of Lithuania*, 02-23-2023]
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36. Algimantas Česnulevičius. Founder of the Lithuanian school of geomorphology. Scientific conference On the sandy paths of professor Alfonsas Basalykas. 28 March 2024 Druskininkai. [*Report in conference*]
37. Algimantas Česnulevičius. Patriarch of Lithuanian geomorphology. Scientific conference The Balainė pines gave birth to Oak. 27 April 2024 Garliava. [*Report in conference*]
38. Algimantas Česnulevičius. The importance of Mikołaj Krzysztof Radziwiłł map for the cartographic knowledge of Central Europe. National conference Thematic cartography of Lithuania: from the past to the present. Vilnius, April 18, 2024. <https://www.chgf.vu.lt/apie-fakulteta/naujienos/3266-temine-lietuvos-kartografija-nuo-praeities-iki-dabarties-nacionalines-konferencijos-skirtos-mikalojaus-kristupo-radvilos-zemelapio-isleidimo-410-osioms-metinems> [*Report in conference*]
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57. Eugenija Rudnickaitė. Lecture "Geology Today and Tomorrow" remotely via Zoom for students in grades 7-10. For listeners of the "Academy of Geographers" from all over Lithuania. <https://us02web.zoom.us/j/85953028991?pwd=Q65PBZT9qIqFmaaLo0QLQ3TJFSuK03.1>.

Eugenija Rudnickaitė's other activities:

- Re-exhibition of Bernardas PAUKŠTYS photo exhibition "Magical Namibia". – 2024-01-05 <http://www.lgeos.lt/web/node/127>
- Rudnickaitė E. The VU Geological Museum's meteorite collection exhibition "Airborne information from space..." <http://www.lgeos.lt/web/node/186>; <http://www.lgeos.lt/web/node/185>; <http://www.lgeos.lt/web/node/181>; etc.
- Small festival of science popularization "Spaceship Earth" (at VU geologists 3 visitor streams + 8 groups with practical activities ~120 participants);
- Eugenija Rudnickaitė gave 60 lectures on various geology topics during 2024 year.
- Eugenija Rudnickaitė, Excursions for teachers who accompanied students to the Prof. Česlovas Kudaba competition, as well as for students - in the museum 2024.03.23. <https://viktoropetkaus.lt/lt/naujienos/konkursai/2024/03/c-kudabos-geografijos-konkursas-2024-03-24-03-36> (~ 870 students and 250 of their teachers)/ <https://www.chgf.vu.lt/apie-fakulteta/naujienos/2948-geomokslu-institute-per-1000-mokiniu-ir-mokytoju-is-visos-lietuvos>
- Recordings of E.Rudnickaitė's stories on various topics: <https://www.facebook.com/watch/?v=349893990048387>; and <https://www.youtube.com/watch?v=pstNVf7Gcy>; and <https://www.delfi.lt/video/laidu-archyvas/grynas-tv/ieskote-meteoritu-vilniuje-yra-4-5-milijardu-metu-brangenybe-80155445>
- The Tenth Conference of Lithuanian PhD students in Geology - 12/20/2024 <https://gamtostyrimai.lt/desimtoji-lietuvos-geologijos-krypties-doktorantu-konferencija/>
- The exhibition "220 Years of the Department of Geology and Mineralogy of Vilnius University" was open in the White Hall of the VU Library until 2024.01.20. About the exhibition: <https://galerija.biblioteka.vu.lt/lt/galleries/paroda-vu-geologijos-ir-mineralogijos-katedrai-220-metu> ; <http://www.lgeos.lt/wp/paroda-vilniaus-universiteto-geologijos-ir-mineralogijos-katedrai-220-metu/>; <http://www.geol.gf.vu.lt/wp/paroda-vilniaus-universiteto-geologijos-ir-mineralogijos-katedrai-220-metu/>

- Training seminar for teachers "Geology and natural science education" 2024.02.14-15 <http://www.geol.gf.vu.lt/wp/mokytoju-kvalifikacijos-tobulinimo-seminaras-geologija-ir-gamtamokslinis-ugdymas>;
- Exhibition at the Department of Geology and Mineralogy, dedicated to the 100th anniversary of the birth of Professor habil. dr. Juozas PAŠKEVIČIAUS (1924.03.19 – 2023.03.26) - long-time head of the department. (Active until 2024.12.19)
- Exhibition at the Department of Geology and Mineralogy dedicated to the 90th anniversary of the birth of Associate Professor Dr. Pranas Rimantas Gailius (19.04.19 – 29.02.2024) - long-time Associate Professor of the department, Vice-Dean of the GMF. (active until 19.12.2024)
- European Museum Night: *"A night among witnesses of historical and geological time"* 2024-05-18-19 (5 visitor flows). <https://openagenda.com/en/ndm-2024-europe/events/a-night-among-witnesses-of-historical-and-geological-time>; and <http://www.lgeos.lt/wp/>; and <http://www.geol.gf.vu.lt/wp/europos-muzieju-naktis-2024/>.
- Exhibition: Poster presentations of the Tenth Lithuanian Conference of PhD Students in Geology - from 2024-12-20 to the present] <https://gamtostyrimai.lt/desimtoji-lietuvos-geologijos-krypties-doktorantu-konferencija/>.
- The exhibition at the Department of Geology and Mineralogy "The Latest Exhibits of the Museum of Geology" is still open.

Members of the INHIGEO Lithuanian group also participated in TV shows dedicated to popularizing the activities and lives of prominent scientists (Antanas Giedraitis, Ignotas Domeika, Juozas Lukoševičius, Juozas Dalinkevičius, Juozas Paškevičius, etc.), popularization of geology and the History of Geological Sciences.

MEXICO

Report submitted by Dr. Lucero Morelos-Rodríguez, luceromr@geologia.unam.mx

Scientific Conferences

MORELOS-RODRÍGUEZ, Lucero, IRAZABA-ÁVILA, Óscar, and Luis ESPINOSA-ARRUBARRENA, Keynote lecture in an International Symposium, “Historia, legado y actualidad del Museo de Geología (México): Más de un siglo de conservación y divulgación [“History, legacy and current status of the Geology Museum (Mexico): More than a century of conservation and popularization”], Primer Simposio Internacional de Patrimonio Geológico Mueble, Día Internacional de los Museos, Quito, Ecuador (virtual meeting), May 2024.

MORELOS RODRÍGUEZ, Lucero, “Parícutin, el volcán que nació en un campo de maíz hace 81 años: Relatos, historias e interpretaciones desde el archivo”, [“Parícutin, the volcano that emerged in a cornfield 81 years ago: Stories, tales, and interpretations from the Historical Archive”], Universidad Autónoma Metropolitana - Iztapalapa, Mexico City, July, 2024.

MORELOS RODRÍGUEZ, Lucero, “A 120 años de la Sociedad Geológica Mexicana: Personajes, instituciones y disciplinas” [“120 years of the Mexican Geological Society: Personalities, institutions and disciplines”], Sociedad Geológica del Perú, Peru (virtual meeting), April, 2024.

MORELOS RODRÍGUEZ, Lucero, “El inventario de la naturaleza en el siglo XIX: Episodios en la historia de la geología en México” [“The inventory of nature in the 19th century: Episodes in the history of geology in Mexico”], Escuela Nacional de Estudios Superiores Juriquilla, Queretaro State, February, 2024.

MORELOS RODRÍGUEZ, Lucero, “El Parícutin: el nacimiento de un ícono cultural” [“The Parícutin: the birth of a cultural icon”], IX Congreso de Historiadores de las Ciencias y las Humanidades, Merida City, March, 2024.

MORELOS RODRÍGUEZ, Lucero, “El quehacer científico de los geólogos durante la Revolución Mexicana: explorando los materiales de construcción del valle de México” [“The Scientific Work of Geologists during the Mexican Revolution: Exploring the Construction Materials of the Valley of Mexico”], IX Congreso de Historiadores de las Ciencias y las Humanidades, Merida City, March, 2024.

MORELOS RODRÍGUEZ, Lucero, “Mexican Women in the Paleontology and Oil Industries”, 37th International Geological Congress, The International Union of Geological Sciences, Korea, August, 2024.

MORELOS RODRÍGUEZ, Lucero, “Parícutin: The Volcano born in a Mexican cornfield”, 37th International Geological Congress (IGC 2024), The International Union of Geological Sciences, IUGS, Korea, August, 2024.

MORELOS RODRÍGUEZ, Lucero, “50 aniversario de la Estación Regional del Noroeste (1974-2024): Medio siglo geologizando el Noroeste” [“50th Anniversary of the Northwest Regional Station (1974-2024): Half a Century of Geologizing the Northwest”], Hermosillo City, November, 2024.

MORELOS RODRÍGUEZ, Lucero, “Labor y quehacer del geógrafo-historiador José Omar Moncada-Maya” [“Work and activities of the geographer-historian José Omar Moncada-Maya”], Homenaje al Dr. José Omar Moncada Maya, Instituto de Geografía, November, 2024.

URIBE-SALAS, José Alfredo, “La formación del objeto geológico en la obra y trabajo de Andrés Manuel del Río (1764-1849)”, [“The Formation of the Geological Object in the Work and Activities of Andrés del Río (1764-1849),”], Induction Conference for the Mexican Society of Geography and Statistics, Mexican Society of Geography and Statistics, Mexico City, September 2024.

URIBE-SALAS, José Alfredo, “The Caverns of Cacahuamilpa on the Horizon of Scientific Expeditions in the 19th Century in Mexico”, IX Congreso de Historiadores de las Ciencias y las Humanidades, University Cultural Center of the Autonomous University of Yucatán, March 2024.

URIBE-SALAS, José Alfredo, “Local Agents in the Construction of Scientific Knowledge about the Navigation of the Mezcala-Balsas River, 19th Century,” 9th Congress of Historians of Sciences and Humanities, University Cultural Center of the Autonomous University of Yucatán, March 2024.

VALDIVIA-MORENO, Laura, “Comisiones de Coalcomán en 1881 y 1882: representaciones científicas del espacio explorado” [“Coalcoman commissions in 1881 & 1882: scientific representations of the explored space”], IX Congreso de Historiadores de las Ciencias y las Humanidades, Mérida, Yucatán, March 19-22, 2024.

Scientific talks given to the general public in the mark of activities in the Geological Museum of National Autonomous University (UNAM)

Luis ESPINOSA-ARRUBARRENA and Ana Fernanda ALEJANDRE, “Desentrañando los secretos de la Tierra: Evidencias de un planeta dinámico” [“Unravelling the secrets of the Earth: evidence of a dynamic planet”], Weekend program of conferences of the Geological Museum, UNAM, January, 2024, México City, CDMX.

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Luis ESPINOSA-ARRUBARRENA, “Fósiles asombrosos de México y del mundo” [“Amazing fossils from México and the world”], A presentation given at the Dinosaur Park “Iztapasauria”, Iztapalapa County, México City, CDMX, April. 2024

Luis ESPINOSA-ARRUBARRENA, “Polvo eres.....Una breve reflexión sobre el origen de la vida” [“For the dust you are....a brief consideration about the origins of life”], Main talk within the festival “A Night at the Museum” organized by the Geological Museum, UNAM, November, 2024.

Recent Bibliography

Books

VEGA Y ORTEGA, Rodrigo, AZUELA-BERLAN, Luz Fernanda (coord.), *Territorio y naturaleza de México en las redes globales de conocimiento científico (1874-1962) [Mexican Territory and Nature in the Global Knowledge Networks]*, Primera edición, Instituto de Geografía UNAM, 2024.

VEGA Y ORTEGA, Rodrigo, AZUELA-BERLAN, Luz Fernanda (coord.), *La geografía y la historia natural de México en las redes globales de producción e intercambio de conocimiento científico, siglos XIX y XX [Mexican Geography and Natural History in the Global Knowledge Production and Circulation Networks]*, Primera edición, Instituto de Geografía, UNAM, 2024.

URIBE-SALAS, José Alfredo, *Andrés Manuel del Río. The Discoverer of Vanadium*, (Collection of Naturalists of the Hispanic World), Madrid, Royal Academy of Sciences of Spain, Geological and Mining Institute of Spain, Royal Botanical Garden-CSIC, National Museum of Natural Sciences-CSIC, and Sicomoro Foundation, 2024.

Articles

BATISTA-DA COSTA, Everaldo, Irma ESCAMILLA-HERRERA, Lucero MORELOS-RODRÍGUEZ, Iliá ALVARADO-SIZZO, “Geografía, cartografía e historia del territorio: de México a Iberoamérica” [“Geography, cartography and history of the territory: from Mexico to Latin America”], *PatryTer. Revista Latinoamericana e Caribenha de Geografía e Humanidades*, 7 (14, June, 2024).

SUTER, Max, MORELOS-RODRÍGUEZ, Lucero, “Seismotectonics of the Querétaro Region (Central Mexico) and the 1934 MI 4.8 Earthquake North of Celaya, *Seismological Research Letters*, 95, 820-833, March, 2024.

MORELOS-RODRÍGUEZ, Lucero, “Exploration and Scientific Practice in Mexico: The Case of Karl Theodor Sapper as Official Geologist (1893-1896)”, *Jahrbuch für Geschichte*

Lateinamerikas / Anuario de Historia de América Latina, Vol. 61 (2024). Available in: <https://journals.ub.uni-koeln.de/index.php/jbla/article/view/2234>

Chapters

MORELOS RODRÍGUEZ, Lucero, “Mensajeras del espacio” [“Messengers from space”], in ALONSO CORATELLA, Guadalupe (coord.), *La roca íntima del todo*, Mexico, National Autonomous University of Mexico, June, 2024 [in press].

MORELOS RODRÍGUEZ, Lucero, “Parícutin Volcano. Mexico”, The Second 100 IUGS Geological Heritage Sites, IUGS, Spain, June, 2024.

Awards and Merits

Distinction awarded by the Faculty of Engineering, UNAM, for 48 years of academic achievements as a professor LUIS ESPINOSA-ARRUBARRENA, National Autonomous University of Mexico, September, 2024.

Distinction awarded by the University of Música, UNAM, for 25 years of Administrative Services, as Head of the Geological Museum: LUIS ESPINOSA-ARRUBARRENA, National Autonomous University of Mexico, November, 2024.

As a final note, we would like to add that members of our group continue teaching three different courses in the National Autonomous University of Mexico (UNAM) and, Universidad Michoacana de San Nicolás de Hidalgo (UMSNH), containing topics on the History Geological Sciences, that contribute to raise the interest of young students in our subject matter.

MOROCCO

*Report submitted by Prof. Khallaf El Ghalbi, Moulay Ismail University of Meknes
Meknes. Morocco.*

Lectures in History of Science for Geography PhD students :

* “Introduction to History of Science”. Moulay Ismail University of Meknes. Meknes. Morocco. 05/11/2024.

* “Major milestones in the history of science”. Moulay Ismail University of Meknes. Meknes. Morocco. 19/11/2024.

* “Aspects of the contribution of Islamic Andalusia to geographical thought.”. Moulay Ismail University of Meknes. Meknes. Morocco. 29/11/2024.

Conferences & Meetings:

* “Les séismes selon les sources médiévales arabo-musulmane” Or “Earthquakes according to medieval Arab-Muslim sources”. 144th scientific meeting of COFRHIGEO. Paris. France. 06/12/2024 (Hybrid Meeting). See <https://www.youtube.com/watch?v=AtSo4hgCGB8>.

* “Contribution of Arab_Muslim Civilization to Earth Sciences in the Middle Age; A Gap to fill in History of Sciences”. Hybrid Conference, “Circulating Knowledge: 20 Years on”. Halifax, Nova Scotia. Canada. 07-10/08/2024.

* “The "Treatises on How to Recognise Gems" of Al-Biruni (11th century) and the development of mineralogy in The Muslim world”. 37th International Geological Conference. Busan. South Korea. 25-31/08/2024.

* “Aspects of Medical Geology in Medieval Andalusian and Moroccan Manuscripts”. 11th Conference of the European Society for the History of Science, (Science, Technology and the Earth). Pompeu Fabra University. Barcelona. Spain. 04-07/09/2024.



* “The Etna Volcano in Arab-Islamic Geographical Sources”. 8th International Geologica Belgica Meeting. ULG. Liège. Belgium. 11-13/09/2024.

* “Attin wa Salsal wa Tahawol maddatou Khalqi al-Insan fi al-Qur’an” Or “Clay and Shale Clay and the transformation of the material of human creation in the Holy Qur’an”. Hybrid International Symposium (The Earth in the Light of Qur’anic Verses and Scientific Data). Supreme Council for Religious Affairs. Ankara. Turkey. 25-27/09/2024.

Publications:

* El Ghalbi, K. 2024. Emerald Mines in Upper Egypt in the Islamic Period (until the 14th century): A neglected era in modern history of mining. Inhigeo anniversaries. IUGS E-Bulletin 205. May 2024. See <https://inhigeo.org/anniversaries/>, and https://www.iugs.org/_files/ugd/f1fc07_7e3f020a6764492c98b2cf4ea820269d.pdf?index=true.

* El Ghalbi, K. 2024. Atta’dine wa I’lm al-ma’adine ‘inda abi rayhane al-biruni (362 AH-440 AH) Or Mining and Mineralogy according to Abou Rayhane Al-Biruni (10th century). Student Library. Oujda. Morocco. 120p.

* El Ghalbi, K. 2024. Al-geologia Attibbiya fi Tourath al-I’lmi al-’Arabi al-Islami Or Medical Geology in Arab-Islamic Scientific Heritage. Student Library. Oujda. Morocco. 118p.

The Netherlands

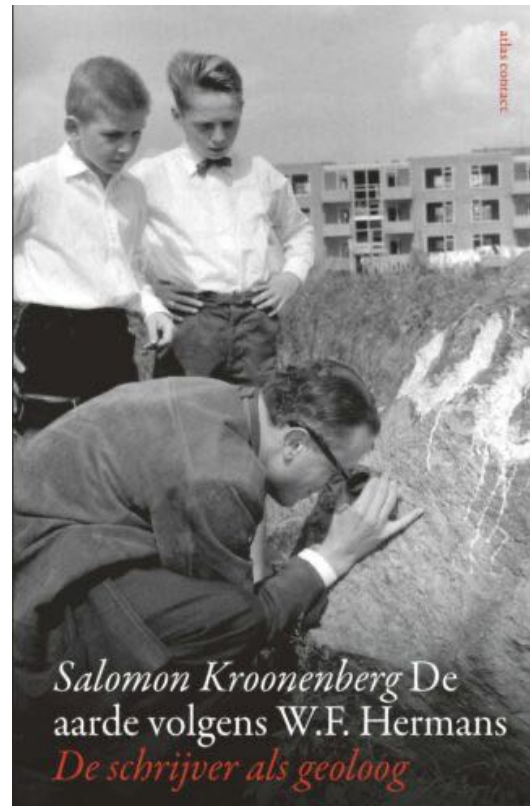
Salomon Bernard Kroonenberg

I delivered an obituary lecture in Paris about my predecessor Jacques Touret on December 11, 2024 for the French section of INHIGEO. See video (in English):

<https://www.youtube.com/watch?v=0NZ3LkYp31c>

In 2023 I published a book in Dutch called *De aarde volgens W.F. Hermans* (The Earth according to W.F. Hermans; <https://www.atlascontact.nl/boek/de-aarde-volgens-w-f-hermans/>). Hermans was one of the three foremost literary authors of the Netherlands in the 20th century, and as I had studied physical geography in Amsterdam just like him with the same professor, only 25 years later, I could analyse how much of his geographical/geological experiences inspired his literary works. I had access to all his travel photographs and letters, and by coincidence I had been to the same places myself without knowing he had also been there, so I published both his and my photographs of the same sites together. Several of his novels were translated; the most well-known one was *Nooit meer slapen* (Beyond sleep in English), also available as a movie, about an unsuccessful expedition of a Dutch geologist to find meteorites in northern Norway. What I discovered, and what he never knew, is that there was a meteorite from that area in the same geological museum in Groningen where he wrote his book.

Right: Michael Hermse took this photograph in 2023 of me studying the same erratic that appears on the cover of the book. The erratic has been displaced 300 m towards the south since its position in 1958 because of construction works in Groningen.



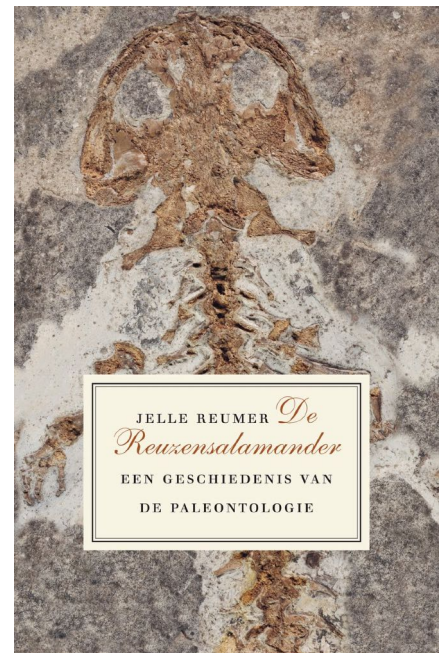


Photograph of Thingvellir on Iceland, on the site representing the core of the spreading zone where the American plate and the European plate separate. Photograph by Salomon Bernard Kroonenberg; see his book (pp. 126, 127) for comparable photographs by W.F. Hermans who, without comprehending the tectonic importance of the site, notes only the “little white houses.”

Jelle Reumer

In December 2024 my book *De reuzensalamander. Een geschiedenis van de paleontologie* (The giant salamander. A history of paleontology) was published. It is written in Dutch. (A English translation would be a good idea?).

See <https://uitgeverijlias.nl/boeken/de-reuzensalamander-eengeschiedenis-van-de-paleontologie-jelle-reumer/>.



NEW ZEALAND

Report submitted by Mike Johnston, Nelson.

New Zealand members of INHIGEO authored a number of articles that were published during the year as well as participating in other activities associated with the history of geology. The publications are:

Rodney Grapes

Kokowai and Pukepoto: earliest chemical analyses of New Zealand mineral substances. *Journal of the Historical Studies, Geoscience Society of New Zealand 78: 1-16.*

Abel Tasman and Farewell Spit, December 17, 1642. *Journal of the Historical Studies, Geoscience Society of New Zealand 78: 23-26.*

In search of illusive ‘copper ore’ at Karori, Wellington. *Journal of the Historical Studies, Geoscience Society of New Zealand 78: 27-31.*

Historical note on travertine in the Wairarapa. *Journal of the Historical Studies, Geoscience Society of New Zealand 78: 32-35.*

Kōkōwai and Pukepoto: nomenclature, definitions, varieties, colours. *Journal of the Historical Studies, Geoscience Society of New Zealand 81: 9-14.*

Ferdinand Hochstetter’s notes on pounamu. *Journal of the Historical Studies, Geoscience Society of New Zealand 81: 15-32.* Co-authored with Sascha Nolden.

Studies of nephrite (actinolite) pounamu compositions from Switzerland in 1869, 1870 and 1892. *Journal of the Historical Studies, Geoscience Society of New Zealand 81: 33-45.*

Moutohorā (Whale) and Whakaari (White) islands, Bay of Plenty: observations by Reverend Richard Taylor in 1839. *Journal of the Historical Studies, Geoscience Society of New Zealand 82: 1-11.*

James Malcolm Maclaren on earthquakes and building strengthening: an article published in the New Zealand Times (Wellington), 30 January 1907. *Journal of the Historical Studies, Geoscience Society of New Zealand 82: 15-18.*

First analysis of so-called chromite from Dun Mountain: composition, nomenclature, comparisons. *Journal of the Historical Studies, Geoscience Society of New Zealand 82: 15-28.*

Dead fish in Cook Strait: volcanic eruption, earthquake, tidal phenomenon? *Journal of the Historical Studies, Geoscience Society of New Zealand 83: 10-18.*

William Colenso, Tūhua (Mayor Island) Māori legend: pounamu and memory of the Kaharoa eruption? *Journal of the Historical Studies, Geoscience Society of New Zealand 83: 19-28.*

Mike Johnston

Hochstetter’s Nelson Diaries 27 July – 2 October 1859. *Geoscience Society of New Zealand Miscellaneous Publication 166.* Co-authored with Sascha Nolden.

The earliest geological maps in New Zealand. *Geoscientist Aoteroa/New Zealand* 6: 12-19. Co-authored with Bruce Hayward and Sascha Nolden.

Simon Nathan

Memories of the Cretaceous-Cenozoic Project (CCP). *Journal of the Historical Studies, Geoscience Society of New Zealand* 83: 1-9.

Bruce Waterhouse

Permian genera and species of Strophalosiidina (Brachiopoda) from east Australia and New Zealand. *Earthwise* 23: 1-277.

A summary of brachiopod species belonging to the Orthida, Rhynchonellidina, Stenoscismatidina and Athyrida from the Permian faunas of east Australia and New Zealand. *Earthwise* 24: 1-52.

Brachiopod genera and species of the suborder Martiniidina from Permian faunas of east Australia and New Zealand. *Earthwise* 25: 1-180.

Brachiopod species of Spiriferidina from the Permian faunas of east Australia and New Zealand: *Earthwise* 26: 1-165.

Punctate spiriferimorph Brachiopoda from the Permian east Australia and New Zealand. *Earthwise* 27: 1-65.

Species of the brachiopod order Terebratulida from the Permian of east Australia and New Zealand: *Earthwise* 28: 1-92.

The *Journal of Historical Studies* remains a major avenue for publication and continues to be edited by Rodney Grapes. A record six issues of the journal (Numbers 78 - 83) were published during the year. Simon Nathan after many years as convenor of the Historical Studies Group stepped down at the end of 2024 and this role passed to Glenn Vallender, a former editor of the Geoscience Society of New Zealand newsletter (now named *Geoscientist Aoteroa/New Zealand*) as well as being an active researcher and author of papers dealing with the history of geology

Ongoing research by INHIGEO members include:

Rodney Grapes

Aspects of the history of earth science in New Zealand and Korea.

Mike Johnston

Proofing of *Mohua Gold* (the second volume of his history of the West Nelson goldfields) is now completed and printing is scheduled for the first half of 2025. Meanwhile he is finalising the third volume *Wangapeka Gold*.

Simon Nathan

During 2024 Simon was involved in publicising the work of expatriate Czech photographer Josej Divis who photographed mining town life in New Zealand. Simon attended the re-opening of

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Divis's cottage in the mining ghost-town of Waiuta, and curated an exhibition of his photographs that was displayed for several months in the National Library of New Zealand in Wellington.

John Taylor

John continues with his long term project of documenting the Reefton Goldfield an important, dominantly hardrock, mining district that is currently displaying evidence of revival. He also remains manager/curator of the Black's Point Museum in Reefton.

Bruce Waterhouse

Bruce, a founding member of INHIGEO, is maintaining his research of Permian paleontology.

Norway

Johannes Mattes (Norway/Austria)

In 2024, Johannes Mattes published six **articles**, four of which were related to the history of the earth sciences:

- J. Mattes: The Making of “Classical” Karst: Serbian Geographer Jovan Cvijić, (Inter)nationalism, and the Emergence of Karst Sciences, 1870–1914. *Episodes* 47, 2024, pp. 1–14 (first view) (peer-reviewed).
- J. Mattes: Collaborative Research in Imperial Vienna: Science Organization, Statehood, and Civil Society, 1848–1914. *Austrian History Yearbook* (Cambridge Univ. Press) 55, 2024, pp. 174–201 (peer-reviewed).
- J. Mattes: Das Karstphänomen Revisited: Serbian Geoscientist Jovan Cvijić and the (Inter)nationalization of Geomorphological Thought. In: A. Milanović Pešić, Z. Vuksanović-Macura, S. Lović Obradović, Marko D. Petrović, J. Kovačević-Majkić (eds.): *The 5th Congress of Slavic Geographers and Ethnographers*. Belgrade: Geographical Institute “Jovan Cvijić”, Serbian Academy of Sciences and Arts 2024, pp. 133–138.
- J. Mattes: Faszination Höhle – Ein Essay über Grenzen, Wissen und Praktiken. In: F. Schmidt, K. Rüppell (eds.): *Faszination Höhle. Katalog zur Ausstellung*. Bremen: Museen Böttcherstraße, Paula Mendelsohn-Becker Museum 2024, pp. 54–58.

Over the course of the year, Mattes delivered sixteen **oral presentations** at academic meetings and conferences, with fourteen of them addressing themes in the history of the earth sciences:

- J. Mattes (15.02.2024) “*Poles and People: Geographical Societies, Statehood, and Civil Society, 1870–1925*”. Invited Talk: History of Science, Medicine and Technology Group seminars, University of Edinburgh, UK.
- J. Mattes (05.03.2024) “*Wie organisiert man Forschung? Die Leopoldina und die Akademie der Wissenschaften in Wien im Vergleich, 1850–1900*”. Invited Talk: Wissenschaftshistorische Seminare, National Academy of Sciences Leopoldina, Halle an der Saale, Germany.
- J. Mattes (05.04.2024) “*State and/or Privately Run Research? The Natural Scientific Adriatic Society in Vienna, (Inter)nationalism, and Research Vessels in the Austrian Littoral, 1900–1914*”. Invited Talk: Ignaz Lieben Symposium, Vienna, Austria.
- J. Mattes (10.05.2024) “*Cooperative Polar Research: Geographical Societies in Budapest, Prague and Vienna and their Arctic Agendas*”. Invited Talk: Conference: Arctic in Eastern Europe. Knowledge, Perception and Communication in 18th–19th century, Toruń, Poland.
- J. Mattes (29.05.2024) “*Poles & People: Geographical Societies, Statehood, and Civil Society in Transnational Perspective (1870–1925)*”. Oral Presentation: Workshop of the Democracy Working Group, University of Oslo, Norway.
- J. Mattes (17.06.2024) “*London & Vienna: Trans-Imperial Collaboration, Large-Scale Research, and the Formation of the International Association of Academies (1899)*”. Invited

COUNTRY REPORTS (2024)

- Talk: Conference: Celebrating 300 years of international collaboration: The Royal Society. The Royal Society of London, UK.
- J. Mattes (29.06.2024) “*The ‘Making’ of Classical Karst: Serbian Geographer Jovan Cvijić, (Inter)nationalism, and the Emergence of Karst Sciences, 1870–1914*”. Oral Presentation: Zeiten – Räume – Wissen: Aktuelle Perspektiven der Geographiegeschichte. Tagung des Arbeitskreises Geschichte der Geographie, Bonn, Germany.
 - J. Mattes (14.08.2024) “*The ‘Making’ of Classical Karst: Serbian Geographer Jovan Cvijić, (Inter)nationalism, and the Emergence of Karst Sciences, 1870–1914*”. Keynote: 5th Asian Trans-Disciplinary Karst Conference, Yogyakarta, Indonesia.
 - J. Mattes (28.08.2024) “*Poles & People: Geographical Societies, Statehood, and Civil Society in Oslo and Vienna (1870–1900)*”. Oral Presentation: 35th International Geographical Congress, Dublin, Ireland.
 - J. Mattes (03.09.2024, online) “*Karst Geomorphology as a Tool of Empire- or Nation-Building? Jovan Cvijić in Vienna*”. Invited Talk: Symposium Geography and State Building in Central Europe: National and Transnational Perspectives, University of Budapest, Hungary.
 - J. Mattes (04.09.2024) “*Transforming the Dinarides: Habsburg ‘Cultivation’ Projects, (Inter)nationalism, and the Emergence of Karst Research, 1860–1890*”. Oral Presentation: 11th European Society for the History of Science Conference, Barcelona, Spain.
 - J. Mattes (21.10.2024) “*Geographical Societies in Transnational Perspective*”. Guest Lecture, University of Budapest, Hungary.
 - J. Mattes (25.10.2024) “*Das Karstphänomen Revisited: Serbian Geoscientist Jovan Cvijić and the (Inter)nationalization of Geomorphological Thought*”. Invited Talk: Fifth Congress of Slavic Geographers and Ethnographers, Belgrade, Serbia.
 - J. Mattes (02.12.2024) “*Kooperative Forschung in Wien der späten Habsburgermonarchie: Wissenschaftsorganisation, Staatlichkeit und Zivilgesellschaft*”. Oral Presentation: University of St. Gallen, Switzerland.

POLAND

Report submitted by Piotr Krzywiec, Polish Academy of Sciences, Warsaw.

1. Publication of short paper describing geological trip to Poland (Tatra Mts. and salt mine in Wieliczka near Kraków) of Robert Townson (Krzywiec P., Marchlewicz K., 2024, Robert Townson (1762–1827) and his geological peregrinations in 1793 in the Northern Carpathians (Tatra Mountains and the Wieliczka Salt Mine). *Geohistories*, 77, 11-13). This paper was published as a follow-up to talk given in 2023 by P. Krzywiec for History of Geology Group, Geological Society of London
2. March 20th: lecture for Committee of History of Sciences of the Polish Academy of Arts and Sciences, by Piotr Krzywiec on “Pionier” company, active in the field of oil & gas exploration in Poland in 1920’ – 1930’
3. May 28th: session “History of Petroleum Geology” organized by Piotr Krzywiec for the American Association of Petroleum Geologists Europe Region Conference in Kraków; talk “Dr Stanisław Wyrobek (1903 - 1979) or how to kick-start two major seismic campaigns of global importance” (Piotr Krzywiec), poster “Władysław Długosz (1864-1937) – pioneer of oil industry in the Northern Carpathians” (Ewa Król, Piotr Krzywiec), poster “Gabriel Rzączyński (1664 – 1737) and first published accounts of oil- and gas-bearing areas in the Northern Carpathians” (Piotr Krzywiec, Aleksandra Arndt)
4. June 13th: session on History of Geology during IV Polish Geological Congress in Poznań, organized by Stanisław Wołkowicz and Krystyna Wołkowicz, including 3 presentations by INHIGEO members: “Publication plans in the field of history of geology” (Stanisław Wołkowicz, Piotr Krzywiec, Krystyna Wołkowicz), “Georg Anton Volkmann (1663–1721) and his *Silesia Subterranea*” (Piotr Krzywiec, Aleksandra Arndt, Marcin Kuleszo, Wioletta Wrona-Gaj), “Proto-geological dissertations from Academic Gymnasium in Toruń” (Piotr Krzywiec, Radosław Piętka, Aleksandra Arndt)
5. August: talk during INHIGEO session during International Geological Congress, Busan, South Korea “Bronisław Grąbczewski and Leon Barszczewski, their travels in central Asia in XIX century and contributions in geology” (Piotr Krzywiec)
6. December 5th: invited lecture during assembly of Polish Geophysical Society “Dr Zygmunt Mitera (1903-1940) and Dr Stanisław Wyrobek (1903-1979) and their contribution to development of exploration geophysics”
7. December 7th: talk during Symposium on Paleobotany of Polish Botanical Society “Georg Anton Volkmann (1663–1721) – pioneer of paleobotany” (Piotr Krzywiec, Sławomir Florjan, Aleksandra Arndt, Marcin Kuleszo, Wioletta Wrona-Gaj, Patrycja Wójcik-Tabol)

COUNTRY REPORTS (2024)

Janusz Skoczylas

Publication of a book on the history of the use of stone materials in the architecture of the city of Poznań (bibliographic reference: Skoczylas, J., 2024 – Kamienny Poznań. O skałach, które tworzą miasto. Published by Wydawnictwo Miejskie Poznania, Poznań, pp. 1-216, ISBN 978-83-7768-399-6). The Poznań Society for the Advancement of Arts and Sciences awarded the book in the competition for the best work on Poznań and the Greater Poland region, published in 2024.

Publication of a chapter on the history of stone pavements used in road construction in the city of Poznań (bibliographic reference: Skoczylas, J., 2024 – Kamienne bruki centrum Poznania jako element dziedzictwa kulturowego [in:] Cytlak, I., Przyszczypkowski, K. (eds.): Uniwersytet – otwarte przestrzenie dyskursów. Published by Wydawnictwo Naukowe UAM. Poznań 2024: 299-315).

Publication of a chapter about geological research conducted by Paweł Edmund Strzelecki, an explorer and discoverer working mainly in Australia. The publication was part of the Strzelecki Year celebrations in Poland (bibliographic reference: Skoczylas, J., 2024 – Geologiczne badania Pawła Edmunda Strzeleckiego [in:] Wyszowska, I., Delestowicz, N. (eds.): Paweł Edmund Strzelecki – Wielki podróżnik i odkrywca z Wielkopolski. Published by Wydawnictwo Poznańskiego Towarzystwa Przyjaciół Nauk. Poznań 2024: 47-58).

RUSSIA

Report submitted by Irena G. Malakhova and Olga V. Martirosyan, Department for the History of Geology, Geological Institute, Russian Academy of Sciences.

Geological Institute of the Russian Academy of Sciences (GIN RAS, Moscow):

Natalia I. Bryanchaninova was a key speaker at the 3rd Dravert Readings (Omsk, Russia) with a paper “A “quite meteorite” correspondence of P.L. Dravert and P.N. Chirvinsky”

The joint meeting of the Department of the Earth Sciences (Russian Academy of Sciences, RAS), the RAS Scientific Board, the Institute of geology of ore deposits, petrography, mineralogy and geochemistry RAS, and the Geological Institute RAS took place on the 14th of February 2024 and was devoted to academician Alexander N. Zavaritsky (1884-1952).

Irena G. Malakhova presented the paper (with the Director of the Geological Institute academician Kirill E. Degtyarev as co-author) about the life of this prominent Russian geologist, petrologist and the discoverer of many ore deposits.



Fig. 1

Fig. 1. Academician Alexander N. Zavaritsky



Fig. 2

Fig. 2. A.N. Zavaritsky on the Mount Magnitnaya (the Urals, 1920s) (the fourth from the right)

Olga V. Martirosyan attended the next meetings:

- 18th Geological Congress of the Komi Republic “Geology and mineral resources of the European north-east of Russia”
- 2nd International Conference of the Russian National Committee on the History and Philosophy of Science and Technology of the Russian Academy of Sciences, dedicated to the 300th anniversary of the RAS (Moscow)

COUNTRY REPORTS (2024)

- 14th All-Russian Scientific and Technical Conference “Modern Problems of geology, geophysics and geocology of the North Caucasus (GeoCaucasus-2024)” Mahachkala (on-line).

All papers and lectures of **Sergey V. Naugolnykh** at various paleontological and geological meetings have historical introductions.

All papers and lectures of **Sergey V. Naugolnykh** at various paleontological and geological meetings have historical introductions.

Ivan P. Vtorov – attended (or participated on-line) the next meetings:

- 45th International Annual Scientific Conference of the St. Petersburg Branch of the Russian National Committee on the History and Philosophy of Science and Technology of the RAS
- 2nd International Conference of the Russian National Committee on the History and Philosophy of Science and Technology of the Russian Academy of Sciences, dedicated to the 300th anniversary of the RAS (Moscow)
- Scientific and practical seminar “300 years of the Russian Academy of Sciences: scientific heritage of Russia” (the Natural Sciences Library, RAS, Moscow).

Natalia I. Bryanchaninova, Irena G. Malakhova, Ivan P. Vtorov, and Olga V. Martirosyan have added new data to the Information System “History of Geology and Mining” (<http://higeo.ginras.ru>) which contains now information about 1 800 geoscientists.

The transition to the new version of the database is being carried out at <https://dev.higeo.ru/>.

Federal State Budgetary Institution A.P. Karpinsky (former All-Russian Geological Research Institute, VSEGEI) (Saint Petersburg):

Leonid R. **Kolbantsev** attended the next meetings with oral presentations:

- 37th IGC, Busan, Korea, August 25-31, 2024 with the presentation “*Women and diamonds*”
- 18th Geological Congress of the Komi Republic “Geology and mineral resources of the European north-east of Russia”
- 9th readings of the “Legends of Geology” in the Vernadsky State Geological Museum on October 31, 2024, with the presentation “*D.V. Nalivkin (1889-1982) – Director of the Institute of Geological Maps of the Geological Committee, and his contribution to the geological cartography of our country*”.
- Scientific and practical conference “Mosaic in the Urban Environment: Current Issues of Monumental Heritage Preservation” with the presentation “*Mosaic panel "Industry of Socialism", history and modernity*”.
- Lecture at the Mining University – “*From the history of the Geological Committee – VSEGEI*”
- Lecture “Academician Th.N. Tschernyschew Central Research Geological Prospecting Museum” for museum employees.

N.M. Fedorovsky All-Russian Institute of Mineral Resources (VIMS, Moscow):

Igor G. Pechenkin presented papers at the next meetings:

- 2nd International Conference of the Russian National Committee on the History and Philosophy of Science and Technology of the Russian Academy of Sciences, dedicated to the 300th anniversary of the RAS
- 13th Russian Youth Scientific and Practical School “New in knowledge of ore formation processes”

The Herzen State Pedagogical University of Russia (Saint Petersburg):

Yury L. Voytekhovskiy read a lot of public lectures on geology, mineralogy and cultural heritage. He participated in numerous scientific meetings in Saint-Petersburg, Moscow, Syktyvkar, Minsk, Petrozavodsk. The topics varied: philosophy of science, development of ideas in mineralogy and crystallography, scientific correspondence. Some of them are listed below:

- 45th International Annual Scientific Conference of the St. Petersburg Branch of the Russian National Committee on the History and Philosophy of Science and Technology of the RAS
- 77th Herzen’s Readings. Geography: development of science and education. St-Petersburg
- Miller Reading-2024. “Paradise for scientists”: to the 300th anniversary of the Russian Academy of Sciences – “*The geological conference that didn't happen*”
- 1st Belarusian Geographical Congress: to the 90th anniversary of the Faculty of Geography and Geoinform. BSU and the 70th anniversary of the Belarusian Geographical Society – “*Mineralogy system: classifications, tolerance spaces, structures (history and essence of the problem)*”
- 18th Geological Congress of the Komi Republic “Geology and mineral resources of the European north-east of Russia”
- 25th All-Russian Scientific Seminar “Mineralogy of technogenesis–2024” – “*Couldn't agree... To the question of the concepts of “mineral” and “rock”*”

V.I. Vernadsky State Geological Museum, Russian Academy of Sciences (Moscow):

In 2024, **Zoya A. Bessudnova** took part in the round table «The University Quarter on Mokhovaya: people and events» – «The Main House of the University on the Mokhovaya street and its naturalists».

As a member of the editorial board of the journal *Studies in the History of Science and Technology* Zoya A. Bessudnova reviewed articles submitted for publication.

She is a managing editor of the *Mineralogical Almanac–Mineral Observer*. and *VM-Novitates* too.

* * *

Four Russian INHIGEO Members were invited by the Russian TV documentaries for podcasts.

Russian Public Television (OTР): the Program «Overcoming»

1. Alexander Fersman (1883-1945): the poetry of stone. (May 18, 2024). <https://otr-online.ru/programmy/preodolenie/aleksandr-fersman-poeziya-kamnya-77497.html>

Zoya A. Bessudnova, Grigory S. Ilyin (Kola Science Centre of the Russian Academy of Sciences: Apatity, the Murmansk Region)



Fig. 3

2. Vladimir Obruchev (1863-1956): “The Obruchevland”. (December 14, 2024). <https://otr-online.ru/programmy/preodolenie/vladimir-obruchev-zemlya-obrucheva-84097.html>

Irena G. Malakhova

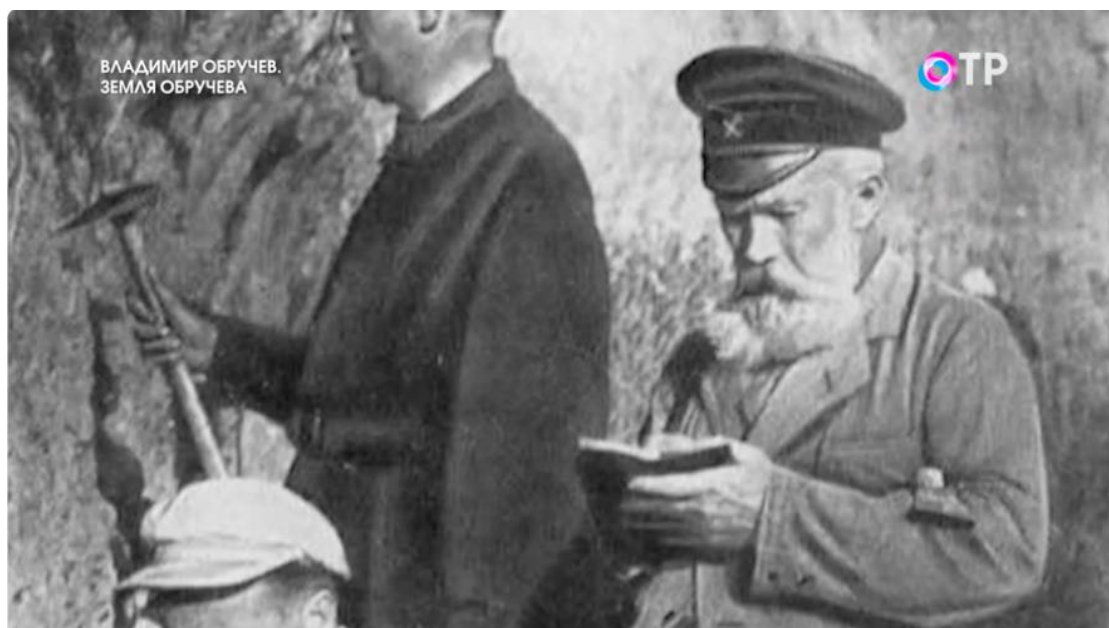


Fig. 4

Mir24 TV (for Kazakhstan)

Kanysh Satpayev: Fire, water and copper pipes (dire straits): the 125th anniversary of his birth.: for the 125th anniversary of K.I. Satpayev's. birth. (April 12, 2024). <https://mir24.tv/news/16586824/kanysh-satpaev-ogon-voda-i-mednye-truby>

Ivan P. Vtorov

Каныш Сатпаев: огонь, вода и медные трубы

Казахстан • 12/04/2024 – 19:10



Fig. 5

Publications

Books, chapters of monographs:

- Kuznetsov N.B., Malakhova I.G.* (Eds.; Compiled by I.G. Malakhova) 2024. The history of the Geological Institute (Russian Academy of Sciences) in documents and memoirs: almanac: Moscow: GEOS, 240 p. (Essays on the History of Geological Knowledge; Vol. 34). ISBN 978-5-89118-888-4. DOI: 10.34756/GEOS.2024.17.38814 http://www.ginras.ru/library/pdf/2024_history_geology_issue34.pdf (in Russian)
- Malakhova I.G.* 2024. Dmitry Ivanovich Mushketov – the first head of the Department for Tectonics in the Geological Institute, RAS. *Ibid.*: 13–18. (in Russian)
- Voytekhovskiy Yu.L.* 2024. Unique collections of the Herzen University. Geological Museum: album. SPb.: Herzen Univ. Publ. House. 120 p (in Russian)

Articles:

- Kolbantsev L.R.* 2024. Dmitry Vasilievich Nalivkin and his contribution to the geological cartography of our country. *VM-Novitates*. 4 (18): 13–22. (in Russian)
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SERBIA

Report submitted by Prof. Ljupko Rundić on behalf of INHIGEO-SRB.

The History of Geology Division of the Serbian Geological Society (SGS) has been an associate member of the International Commission on the History of Geological Science (INHIGEO). The Division currently brings together only four active researchers, geologists and geographers who are also members of the International Commission on the History of Geological Science (INHIGEO). The last couple of years, we are looking for new members and people who can take part in joint goals and improve work of our division.

Prof. Aleksandar Grubić, our long-time teacher and an Honorary Senior Member of the International Commission on the History of Geological Sciences (INHIGEO) is continually active in his tenth decade of life. Last year, he was a member of the Honorary Committee of RCMNS Interim & INHIGEO Conference dedicated to the centenary anniversary of the term Paratethys (Laskarev, 1924). Additionally, he was a special guest as one of the last students of Prof. Vladimir Laskarev. Besides, he finished a book on new views on the geology of Fruška Gora Mountain (SE Europe, Pannonian Plain, Serbia) and it should in print very soon. In recent months, he has been researching medieval mining and geology among the Serbs.



Prof. Ljupko Rundić was the Chair of the Organizing Committee of the RCMNS Interim & INHIGEO Conference entitled “100 years of the Paratethys (Laskarev, 1924) – Conceptual History and Modern Challenges which held September 30 – October 1, 2024, in Belgrade. For a year, he collaborated with his colleagues to organize the event. Scientific Committee of the conference with nineteen renowned geologists from sixteen countries further increased the reputation of the event itself. Three top invited speakers and their topics further increased the interest for the event itself. INHIGEO

was sponsor of the conference and a special session was dedicated to history of geology and V. Laskarev life and work. Forty-seven on-site participants from twenty-three countries gave twenty-nine lectures. Unfortunately, only three lectures by Serbian colleagues have had historic topics. On the second day of the conference, a field trip to the Miocene sites of the Belgrade area (all the Laskarev’s localities) organized and the leader was Prof. Rundić. Two publications have been printed: Abstracts Book, and The Field Trip Guidebook. For more details about this conference, please visit the link <https://sgd.rs/100paratethys/>

The day after the official end of the conference, a small group of participants visited the Vladimir Laskarev grave and paid their respects to him by laying flowers.

Prof. Mladjen Jovanović (Faculty of Science, Novi Sad) has no written publications the last year. However, his good practise to making different lectures on history of geology and geography give a dedicated support to our intencion to promotion of all natural sciences.



Ceremonial Hall of the Serbian Academy of Sciences and Arts (September 30, 2024).
Dr. Aleksandra Maran Stevanović gave a lecture on Laskarev's life and work.



Prof. Rundić gave an introduction lecture on history of the Paratethys,
its status and present-day challenges.

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Dr. Tivadar Gaudenyi, senior scientific advisor at the “Jovan Cvijić” Geographical Institute (SASA, Belgrade), during the past year had no significant activity related to the work of the Division.

Unfortunately, the small INHIGEO-SRB family has become even smaller. Academician Vidojko Jović (1956-2024), passed away last September, only three weeks before the conference dedicated to the one hundred years of Paratethys, where he was a member of the Honorary Committee.



Participants of the field trip in front of the protected Middle Miocene Tašmajdan ridge, the Belgrade City centre (October 1, 2024).

Dr. Aleksandra Maran Stevanović (Natural History Museum Belgrade) has prepared the biographies of the curators, preparators and associates-volunteers whose knowledge, experience, great commitment and enthusiasm have made an exceptional contribution in the first decades of the 20th century, not only to the establishment of the initial collections and the development of certain scientific disciplines, than to the reputation of Natural History Museum as one of the leading scientific, cultural and educational institutions in Serbia (founded in 1895).

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SPAIN

Report submitted by Octavio Puche-Riart.

Activities

During 2024, the activities carried out in Spain on the History of Geology have been very varied and important.

On September 25, 2023, the exhibition "The Power of Crystals: Their Impact on Science, Art, and Thought" opened at the Scientific Research Council (CSIC) Outreach Center in Seville. The exhibition will remain open until July 14, 2024.

From November 3, 2023, to September 1, 2024, the National Museum of Natural Sciences (MNCN) in Madrid hosted the exhibition "Alfred Russel Wallace (1823-1913). Biogeography and Evolution". The exhibition was organized to commemorate the bicentennial of the birth of Wallace, considered the father of biogeography and co-discoverer with Darwin of the Theory of Evolution through natural selection.

On November 13, 2023, the temporary exhibition "A Pinch of Salt: Uses, Obtaining, and History" opened at the Museum of Natural Sciences of the University of Zaragoza. The exhibition closed on February 3, 2024.

On February 6, 2024, the "1st Mining Memory Week" was launched at the Antonio Paredes Mining and Ethnographic Museum in Mazarrón, Murcia. The event took place from February 16 to 22. On the 16th, the events began with a photography contest dedicated to the landscape of the Mazarrón mines, organized by the F20 Association. On the 17th, the exhibition "The Unthinkable Prodigy" by artist LIDÓ RICO opened, offering an in-depth look at mining in the region of Murcia. The central event of the week was on Sunday, February 18, with the inauguration of a monument in memory of local miners. These events concluded with lectures by GÉRARD CHASTAGNARET: "Hilarión Roux, Marquis of Escombreras. Pioneer of lead mining in the Mediterranean"; and by MATÍAS RAJA: "Minerals of Mazarrón". The photography contest concluded with the awards ceremony.

From February 8 to 28, 2024, the National Museum of Natural Sciences in Madrid hosted the exhibition "GEAS. Women Who Study Science", directed by Rosa Maria Mateos and Ana Ruiz Constan. This cultural activity is part of the celebration of the International Day of Women and Girls in Science (United Nations), which is held on February 11 (see: 11 de febrero, Día Internacional de la Mujer y la Niña en la Ciencia | Consejo Superior de Investigaciones Científicas).

As it is now traditional, “Darwin Day” was celebrated on February 10, 2024, at the National Museum of Natural Sciences (MNCN) in Madrid. Families with children over eight years old were able to participate in various activities, including readings of Darwin's texts, playing a game titled "The Mysterious Wallace Box," as well as demonstrations, entertainment, and lots of science and fun in the "Evolution Experiment Area." The events concluded with the grand gala "The Night of Darwin and Wallace 2024," a fusion of evolution and flamenco, theatre activities, gastronomy, and science, led by the curators and scientists of the MNCN.

From March 1 to May 10, 2024, the Royal Academy of History and Art of San Quirce, in Segovia, organized the “45th Segovia History Course”, which this time focused on “The Sierra de Guadarrama: nature and culture”. The first lecture, held on March 1, was given by NICOLÁS ORTEGA CANTERO, on: The modern discovery of Guadarrama Mountains. Also noteworthy is the one given on March 8 by JUAN MANUEL MORENO YUSTE, on Naturalists and the Sierra de Guadarrama during the Restoration.

On March 8, 2024, the Autonomous University of Madrid hosted the reading of MARÍA ROSARIO ALCALDE FUENTES doctoral thesis on “Donato García and Mineralogy in the Museum since the 19th Century”, a work of great interest to the History of Gology. The priest Donato García (1782-185) was one of the pioneers of the teaching of Mineralogy in Spain, as a professor at the Royal Cabinet of Natural History and at the Central University of Madrid between 1816 and 1853.

The Spanish Gemological Institute (IGE) has been holding webinars throughout the year. We would like to highlight the lectures given on March 12, 2024, by JUAN OLLER: “Emerald Mining in Ancient Egypt: The Results of the Sikait Project at Smaragdos (2018-2024)”; on October 8, 2024, by BENJAMÍN CALVO: “Garnets: Precious, Ancient, and Unknown”; on November 5, 2024, by GABRIELA FARFÁN: “The National Collection of Gems and Minerals of the Smithsonian National Museum of Natural History in Washington”; and on December 3, 2024, by MARÍA ÁNGELES GRANADOS: “Spanish Marbles in the Deserts of Charles IV”.

On March 21, 2024, at the National Museum of Natural Sciences (MNCN), in Madrid, took place the presentation of ANTONIO PEREJÓN RINCÓN's book: “The Lucas Mallada Institute of Geological Research, CSIC (1943-1979)”, published by the Higher Council for Scientific Research, within the History of the CSIC series.

From March 23 to June 2, 2024, the Barcelona Museum of Natural Sciences (MCNB) held the exhibition: "Essentials: The workers of the Museum of Natural Sciences of Barcelona, 1917-1987." The exhibition aimed to make visible, for the first time, a history that, by definition, has been invisible and therefore, has generated little visual material. The museum's rich collections, its preserved antique furnishings, the archive's documentary collection, and a series of deposited documents will be the basic elements for telling this story of more than a century.

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On March 26, 2024, promoted by the Research Infrastructures Department and the Natural History Museum of the University of Santiago de Compostela, La Coruña, the second edition of the exhibition: “Minerals. See the Invisible. From Haüy to ermeloite”, opened. The exhibition will remain open until December 31, 2025.

On the occasion of World Water Day (March 22), “Hydrogeoday” was held in the region of Murcia on April 20, 2024, organized by the Spanish section of the International Association of Hydrogeologists. The chosen topic was: “The springs of Caravaca de la Cruz: aquifers, science, legends, and history”.

The Spanish Society for the Defense of Geological and Mining Heritage (SEDPGYM) regularly holds webinar-style conferences entitled: “Encounters with Heritage”. Mention should be made of the one given on May 28, 2024, by AGNIESZKA PRYTEK, from the Wieliczka Salt Museum (Poland), on: “The Krakow Mining Museum in Wieliczka, as an example of cooperation between humans and nature”.

On May 29, 2024, the special issue of the journal “De Re Metallica”, published by SEDPGYM and dedicated to prehistoric copper mining and metallurgy, was presented at the National Archaeological Museum in Madrid. On the occasion of this event, OCTAVIO PUCHE RIART, INHIGEO member, gave a lecture on “Mining in Prehistory”.

The Geological Society of Spain (SGE) organized the 11th Geological Congress of Spain from July 1 to 6, 2024, at the Northern Stretch of Exhibitions and Congress Center in Ávila. It included a History of Geology section, where 11 papers were presented and discussed. ISABEL RÁBANO, INHIGEO member, continues to coordinate the History of Geology Commission of the SGE.

On June 22, 2024, FERNANDO PEDRAZUELA GONZÁLEZ gave a lecture in honor of Francisco Javier (Paco) Ayala Carcedo, at the “5th Congress on Environmental Engineering and Mining for Development and Land Use Planning”. Paco Ayala (1948–2004) was a prominent member of INHIGEO Spanish Section.

From July 8 to 10, 2024, organized by the Almería University and directed by ANDRÉS SÁNCHEZ PICÓN and ÁLVARO CASTRO MONTOYA, the course "The Mining Legacy: History, Heritage, and Resource" was held in Fuente Vitoria, Almería. The intense mining activity of the past has left an important legacy in the regions of Almería. This mining heritage has become a primary resource for the development of territories in many areas of Europe and Spain. Initiatives to understand it, disseminate it, and harness it to enhance tourism and recreational opportunities are increasing. The course was held in an inland municipality located in the Alpujarra region at the foot of the Gádor Mountains, where the revival of private mining in Spain took place at the beginning of the 19th century. The speakers at this course addressed this topic from a broad perspective, encompassing the economic, technological, social,

and cultural components of heritage, as well as the history of the geomineral resources and their potential as a resource for territorial development. We highlight the lecture given by FRANCISCO HERNÁNDEZ ORTIZ: “The Legacy of the Gold Rush: Rodalquilar”.

On July 12, 2024, the Geological and Mining Institute of Spain (IGME) organized a commemorative event to mark its 175th anniversary, making it one of the oldest scientific institutions in Spain. The director of the organization, ANA MARÍA ALONSO ZARZA, highlighted historical events, including the beginning of the "Commission for the Geological Map of Madrid and the General Geological Map of the Kingdom", founded by Queen Elisabeth II of Spain in 1849. The celebration was attended by the Secretary of State for Science, Innovation and Universities, JUAN CRUZ CIGUDOSA, and the president of the Spanish National Research Council (CSIC), ELOISA PINTO, who emphasized the importance of geological knowledge in the social and economic advancement of the country. The “2024 IGME Award” has been posthumously awarded to the recently deceased geologist María del Pilar Mata Campo, in recognition of her outstanding research work over many years and across this institution. For this anniversary, the book "The Geological and Mining Institute of Spain: 175 Years" was also prepared, coordinated by ISABEL RÁBANO, INHIGEO member, and ÁNGEL SALAZAR, among other activities. For this reason, the exhibition "Geology and Mining for the Habitability of the Planet" opened on November 29, 2024.

On July 13, 2024, organized by the Segovia Geology Association (AGS) and the IGME, a commemorative walk was held in La Granja (Segovia) to commemorate the “175th anniversary of the Geological and Mining Institute of Spain”, whose Royal Decree of creation was signed by Queen Elisabeth II at the Royal Palace of La Granja de San Ildefonso. At this event, organizers and participants discussed various aspects of the history of geology and natural sciences related to La Granja de San Ildefonso, with special attention to this mid-19th-century period.

From July 29 to 31, 2024, the Olavide University summer course entitled: “Introduction to Applied Speleology: The Study of Water Mines (5th Edition). José Millán Naranjo in memoriam”. The seminar deals with groundwater harvesting in the subsoil of Carmona. These little-known hydraulic engineering works were built in Roman times and can be considered first-rate heritage elements. José Millán died on March 10, 2024, while carrying out cave diving work in a mining gallery in the municipality of Villanueva y Minas, Córdoba.

From August 18 to 14, 2024, the “7th Conference on the Dissemination and Defense of Teruel's Geological Heritage was held in Alcorisa and other locations in the province of Teruel. New lines of palaeontological research and new groups of fossils in Teruel” were presented. This meeting included a tribute to ENRIQUE PEÑALVER MOLLÁ, Phd in Geology and palaeontologist at the Spanish National Research Council (CSIC) and a scholar of fossil insects preserved in Teruel sites.

On September 15, 2024, to commemorate the “200th anniversary of Georges Cuvier's Discours”, published in 1825, LEANDRO SEQUEIROS, INHIGEO member, published the first

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Spanish translation of this work. On the occasion of this bicentennial, various Aragonese institutions and associations formed a committee that promoted this first complete Spanish translation, with notes and critical analysis. In addition to the Geology Department of the University of Zaragoza and its palaeontologist, the sponsors included the Association of Friends of the Museum of Palaeontology of Zaragoza (SAMPUZ), the Aragosaurus Group of Zaragoza, the Bajo Jalón Cultural Association, and the Emiliano Aguirre Paleontological Foundation.

From September 15 to 18, 2024, the “20th International Congress on Geological and Mining Heritage” was held at the headquarters of the National University of Distance Education (UNED) in Madrid, where numerous papers were presented. Highlights include those by LUIS ALBERTO MANSILLA and LUIS MANSILLA: “Agustín de Betancourt in the Almadén mines”; ESTER BOIXEREU, INHIGEO member, PAULA ADÁNEZ, CONCEPCIÓN FERNÁNDEZ LEYVA, RAMÓN JIMÉNEZ and DULCE GÓMEZ-LIMÓN: “Tetrahedrite, movable geological heritage or state-of-the-art mining resource?”; FRANCISCO HERNÁNDEZ ORTIZ: “Historical archives and research into the world of alum”; MARÍA TERESA GÓMEZ and ASUNCIÓN ALÍAS LINARES: “Mineralogy in display cases: Catalogue, conservation and museology”; OCTAVIO PUCHE RIART, LUIS FELIPE MAZADIEGO MARTÍNEZ, INHIGEO members, and ÓSCAR MUÑOZ ARANDA, on “The beginnings of Portland cement production in Madrid and the lime-making tradition of Morata de Tajuña”. FERNANDO PEDRAZUELA also gave a lecture on “Francisco Javier Ayala Carcedo, a humanist engineer” and former member of INHIGEO.

From September 25 to 27, 2024, sponsored by the Spanish group of the International Association of Hydrogeologists (IAH), the “Iberian Congress on Groundwater (CIAS 2024)” was held in La Coruña. One of its chosen topics was: “History of Hydrogeology: Errors and Successes”. We highlight the presentation by CATALINA BEZARES: “History of Underground Hydraulic Construction in Madrid: Unpublished Historical Cartography of Water Travels from the Special School of Civil Engineers of Madrid”.

On October 5, 2024, “The Emiliano Aguirre Year” began, dedicated to this palaeontologist who dabbled in the history of geology. He is well known for having initiated the systematic study of the Pliocene in the Atapuerca Mountains (Burgos). October 5, 2025, will mark the 100th anniversary of his birth. Various institutions are preparing academic sessions in his memory.

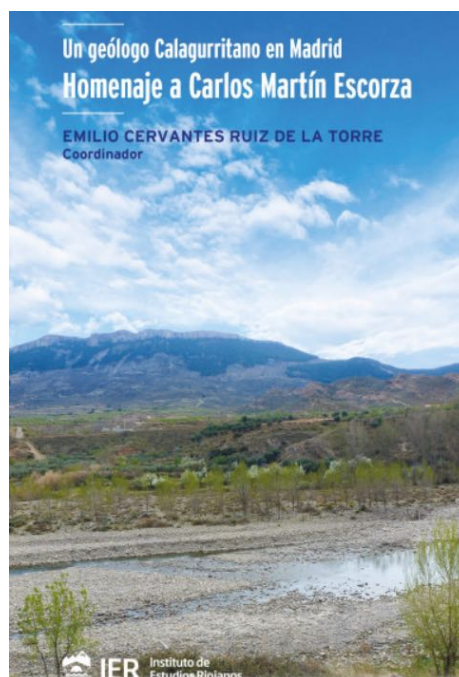
On October 30, 2024, at the Ramón Areces Foundation in Madrid, a series of lectures entitled "The Discoverers of Chemical Elements" was organized as part of the lecture series "Scientists in Enlightened Spain." JOSÉ RAMÓN BERTOMEU SÁNCHEZ spoke on the topics of “Fausto d'Elhuyar, the pensioners of the Enlightenment, and the discovery of tungsten”; and AGUSTÍN GARCÍA ASUERO on the topics of “Andrés Manuel del Río, the discoverer of vanadium, born in Madrid and adopted by Mexico”.

From November 4, 2024, to January 31, 2025, will be on display at the Library of the Industrial Engineer School at the Polytechnic University of Madrid (UPM) the exhibition “Crystallography at the Palace of Industry and Arts”, organized by the UPM, the Madri+d Knowledge Foundation and the Science and Innovation Week of the Community of Madrid.

From December 10, 2024, to January 12, 2025, the National Museum of Natural Sciences (MNCN) in Madrid, in collaboration with the Spanish Origami Association-Madrid Group, has developed “The Paper Dinosaurs Exhibition”. The exhibition features scale models of the most famous dinosaurs at the feet of each of the museum's exhibits, as well as a large diorama featuring prehistoric animals.

Likewise, a book entitled: “A Calagurritan Geologist in Madrid. Tribute to Carlos Martín Escorza” was published at the end of 2024 by the Institute of Riojan Studies (IER). This work was coordinated by EMILIO CERVANTES RUIZ DE LA TORRE. Our colleague Carlos Martín Escorza was a prominent INHIGEO member who passed away in 2021.

CARLOS MARTÍN ESCORZA (Calahorra, 1942-Madrid, 2021) was the first o the children of ANTONIO MARTÍN PÉREZ, mayor of Calahorra between 1939 and 1955. He studied Geological Sciences at the Complutense University of Madrid, in the 14th graduating class, finishing his degree in 1970 and joining the Geodynamics Department, directed by MANUEL ALÍA MEDINA (1917-2012), PhD in Geology. In 1975, an intense year, he presented his doctoral thesis entitled “Geotectonic Study of the Lower Palaeozoic in the Southeastern Montes de Toledo (Urda-Fuente del Fresno)”, participated in a prospective expedition to the Sahara that was interrupted by the Green March and married AMALIA GARCÍA-ARÁEZ LÓPEZ, a geologist like him, with whom he shared his life. He was then assigned to the Lucas Mallada Institute (Coordinated Center of the Higher Council for Scientific Research-Complutense University of Madrid). In 1980, he joined the Geology Institute of the CSIC, part of the National Museum of Natural Sciences (MNCN) in Madrid, where he remained until his retirement in 2012. He worked in various areas of geology and the history of science, developing original methods that were often useful to other researchers. From his position at the Museum of Natural Sciences, he always maintained contact with his native La Rioja, to which he dedicated numerous studies, providing the information and resources at his disposal for the development of every scientific initiative. This book is not only a tribute to Carlos, but also to Amalia, his wife and partner throughout his career, whose chapter describes her shared experience with Carlos. Furthermore, nineteen friends and colleagues of Carlos at different points in his career, throughout different stages, institutions, and projects, wanted to commemorate our experience with this exemplary



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researcher. This publication thus joins the tribute paid to him on May 26, 2022, in recognition of his contagious energy, tireless work, and generosity. The presentation of the work took place on Tuesday, January 21, 2025, at the National Museum of Natural Sciences (MNCN) in Madrid.

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Josefina Pérez Mateos: la pionera geóloga de las arenas - Mujeres con ciencia

-TRISTÁN, R.M. (2024). Carlotta J Maury, una paleontóloga en los inicios del petróleo. En **Mujeres con Ciencia** (19 de marzo de 2024)

Carlotta J. Maury, una paleontóloga en los inicios del petróleo - Mujeres con ciencia

-TRISTÁN, R.M. (2024). María Fernanda Campa Uranga, la geóloga revolucionaria. En **Mujeres con ciencia** (2 de abril de 2024)

María Fernanda Campa Uranga, la geóloga revolucionaria - Mujeres con ciencia

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-TRISTÁN, R.M. (2024). Myra Keen, la dama de las conchas, En **Mujeres con ciencia** (17 de septiembre de 2024)

Myra Keen, la dama de las conchas - Mujeres con ciencia

-TRISTÁN, R.M. (2024). Margaret Crosfield, la sufragista que buscaba trilobites. En **Mujeres con ciencia** (29 de octubre de 2024)

Margaret Crosfield, la sufragista que buscaba trilobites - Mujeres con ciencia

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Switzerland

Dania Achermann received a promotion in rank to Associate Professor of History of Science and Technology at the University of St. Gallen, School of Humanities and Social Sciences (SHSS), St. Gallen, Switzerland. Congratulations, Associate Professor Achermann!

TURKEY

Report submitted by Gönenç Göçmengil, İstanbul University-Türkiye

There is no record of any society associated with the history of geology, but there is an ongoing production of articles, conference papers, book reviews and popular science articles in Türkiye. Besides, the Annual Geological Congress of Türkiye, generates each year a session to celebrate the career of an important earth scientist in Türkiye. Below, there is a list of the publications from INHIGEO members and also other publications related to the history of geological sciences in Türkiye in the year of 2024.

Meetings

76th Geological Congress of Türkiye took place during 15-19 April 2024, host a session to honor Prof. Dr. Ali Yılmaz (photo, right) who extensively studied the field characteristics of Central and Eastern Anatolia regions and also an expert on environmental geology. The session called “75th Anniversary Special Honorary Session Prof. Dr. Ali Yılmaz”, session coordinated by Tolga ÇAN - Hüseyin YILMAZ - Haluk AKGÜN - Ali Vedat OYGÜR.



Below publications related to the history of geological sciences published in 2024

Publications of INHIGEO members in 2024

Articles

Şengör, A.M.C., Bach, T. “Ernst Haeckel’s present of the first two volumes of *Das Antlitz der Erde* by Eduard Suess to his friend Dr. Paul von Ritter: Why is it important?”. *Int J Earth Sci (Geol Rundsch)* 114, 323–332 (2025). <https://doi.org/10.1007/s00531-024-02478-8>

Book Reviews

Göçmengil, Gönenç. “Emre Dölen’in ‘Modern Yerbilimlerinin Türkiye’ye Girişi Ve Kurumlaşması’ Adlı Eserinin Değerlendirmesi”. *Osmanli Bilimi Arastirmalari (Studies in Ottoman Science)* 25, sy. 2 (Ağustos 2024): 605-15. <https://doi.org/10.26650/oba.1501356>.

Obituary

Makaroglu, Özlem, Melda Küçükdemirci, Yunus Emre Fenerci, Gönenç Göçmengil. “Obituary Prof. Dr. Ferhat Özçep”. *Osmanli Bilimi Arastirmalari (Studies in Ottoman Science)* 25, sy. 1 (Ocak 2024): 229-34. <https://doi.org/10.26650/oba.1398590>.

Conference Papers

Şengör, A.M C. “*Deep Time and Uniformitarianism*” (No. EGU24-20408). Copernicus Meetings, (2024).

Göçmengil, Gönenç.”Limits of Knowledge of Mining Practitioners in the Early-Modern Ottoman Empire”. Osmanlı’da Ulûm-i Tabîyye (Natural Sciences in the Ottoman Period), (2024).

Other Publications Related to the History of Geological Sciences in Türkiye

Articles

Sarıgül, Volkan. “The curious case of Karl Nagalhard and the central European influence on the early studies on the Cenozoic paleobotany in Turkey” *Episodes Journal of International Geoscience*, 47(2),(2024): 405-417.

Okay, Nilgün. “İlk Kadın Petrol Jeoloğu MEHLİKA İZGİ TAŞMAN RİBNİKAR (1912-2007)” *Mavi Gezen*, 32 (2024): 5-12

Kazancı, Nizamettin. “Anadolu’da Yerbilimleri Eğitiminin Kısa Tarihçesi” *Mavi Gezen*, 33, (2024):5-21

Yalçın, Namık. “Cumhuriyetimizin İlk Yüzyılında Petrol Jeolojisinde Başarılanlar” *Mavi Gezen*, 33, (2024): 25-41.

Kaptan, B. H. B., Fidan, E., Ünlüsoy, S., Kömürlü, E., Keskin, H. L., & Karatak, A. (2024). Emin Ergun Kaptan (27 Şubat 1941-05 Mart 2018). *MT Bilimsel*, 25,(2024): 87-95.

UKRAINE

Ihor Bubniak

1. Events (Conferences, Public Talks)

- Presented at the 37th International Geological Congress, T40 - History of Geological Sciences, Session 3+4 - General Contributions to the History of Geological Sciences, with the talk: “The Geological Commission of the Shevchenko Scientific Society: Institutions, Personalities, Publications.”

2. Publications

- Published information about the 37th International Geological Congress in issue no. 70 of the *Bulletin of the Shevchenko Scientific Society*.

UNITED KINGDOM

Report submitted by Duncan Hawley.



The History of Geology Group (HOGG) is an independent group, affiliated to the Geological Society of London (GSL). HOGG was inaugurated in October 1994 to encourage interest in the lives and work of those (geo)scientists and philosophers who influenced both the study and the practice of geology. The Group is open to anyone with an interest in the subject (including those outwith the U.K). The membership is drawn from a wide range of backgrounds, both geological and non-geological, with a diversity of interests in the history of geology. The 2024 Chairperson 2024 was Duncan Hawley.

In 2024 (to 30 September) there were 213 HOGG members, 33 of whom joined during the year. There were 204 ordinary members and six young members (aged under 30 years), of which 26 are non-U.K. members and 29% female members.

The HOGG Committee met four times over the year, with all meetings held online. The HOGG Committee comprised nine members, falling three short of the full complement of twelve. Jay Bosenquet, Dr Gordon Chancellor and Cindy Howells completed their terms of office in November 2023. Anne Barrett, Gordon Chancellor and Andrew Hopkins have also completed their committee terms but agreed to be co-opted onto the Committee if required for another year in order to continue their roles as JISCmail manager, Bulletin Coordinator and Secretary respectively. Two new members were elected to the Committee at the 2023 AGM: Prof. David Pyle FRS and Dr. John Milsom. In accordance with HOGG's status as an affiliated group of the Geological Society of London (GSL), Dr. Jennie Gilbert served as the GSL representative on HOGG Committee in a liaison capacity.

HOGG was very sorry to report the death of two key members during the year. Professor Patrick Boylan was an important and internationally respected figure in the world of museums. He also made a highly significant contribution to the history of geology, most specifically in studies relating to William Buckland. Dr. Dick Moody served as Chairperson of HOGG, who taught and researched palaeontology, stratigraphy and sedimentology at Kingston University and used his knowledge and networks to organise overseas field meetings that always incorporated history of geology. Obituary notices were published, or are forthcoming, in HOGG's magazine *GeoHistories*.

Events

a) Online meetings

Five online lunchtime (13.00–14.00hrs) presentations, followed by Q&A sessions, were held online:

- March: *'William Smith in South Wales'*, with Duncan Hawley.

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- May: a thematic meeting: ‘*Historic meteorite falls in Britain: their impact on geological and extra-terrestrial thinking*’, with Roger Osborne, Peter Tandy, Mike Howgate and Gerald Lucy.
- June: ‘*The founding of the Cretaceous System (1822)*’, with Professor Malcolm Hart.
- September: ‘*The politics of data in the history of the Earth sciences: The case of fluvial geomorphology*’, with Dr. Etienne Bensen.
- October: ‘*Arthur Raistrick: a polymathic geologist*’, with Colin Speakman.

Numbers attending ranged from 29 to 53. Recordings of meetings are made available to HOGG members.

b) Conferences and Workshops



Photo by Sheena McCurrach

- Two events were held to mark the bicentenary of the momentous meeting of the Geological Society of London in February 1824 at which W.D. Conybeare and William Buckland presented the first scientific accounts of *Plesiosaurus* and *Megalosaurus* respectively.

February 20th: A *re-enactment of the meeting* was staged in period costume. Historical roles at the event were played by Chris Duffin (Buckland), Duncan Hawley (Henry Warburton), Peter Lincoln (Conybeare) and Frances M. Lynch (Mary Anning). The re-enactment was held in the same premises as the original meeting in 1824, 20 Bedford Street Covent Garden, London, with the cooperation of current owners, The Concert Artistes' Association. The event was followed by an afternoon tea. Appropriately, the 2024 President of the Geological Society of London, Ruth Allington, was in attendance to see a 'reincarnation' of her forebear William Buckland, who, in 1824, was presiding over his first meeting in the role. The event was organised by Duncan Hawley, Peter Lincoln and Tom Sharpe and it proved to be a packed event, as was the original meeting in 1824. An evening public lecture ‘*Dinosaurs: changing views over the last 200 years*’

was organised by the Geological Society of London at their present premises in Burlington House, Picadilly, London, and this too was a packed event.



Photo by Phil James

February 21st: A scholarly symposium entitled ‘*Enormous Fossil Animal and Almost Perfect Skeleton*’ was convened to discuss the events that had been the subjects of the previous day’s re-enactment. Organised in partnership with, and held at, the Oxford University Museum of Natural History, the symposium saw the presentation of thirteen original papers covering the background, significance and impact of the 1824 meeting. Participants were able to view items and displays at the museum that were relevant to the theme of the conference, including the *Megalosaurus* lower jaw specimen described by Buckland at the original meeting and a contemporary cast of the large *Plesiosaurus dolichodeirus* specimen described by Conybeare made by sculptor Sir Francis Chantrey. An abstracts booklet was produced and distributed. The symposium was convened by HOGG and organised by Duncan Hawley (HOGG) and Dr Emma Nicholls (OUMNH) and with generous support of OUMNH in providing the lecture room. The symposium was attended by just over a hundred participants. The transactions of the symposium will be published as a special issue of the *Earth Sciences History* journal.

COUNTRY REPORTS (2024)



Cartes de visite courtesy of the Reverend W.D Conybeare
& the Reverend Dr. William Buckland, via Duncan Hawley

- July 16th-17th saw a successful two-day conference entitled '*The History of Geological Discovery in Polar Regions*' in Cambridge at the headquarters of the British Antarctic Survey (BAS). On the first day, ten original and wide-ranging papers on geological discoveries in north and south Polar Regions were presented. These ranged from the early 19th century to the second half of the 20th century. The second day was given over to museum and archive visits of relevant artefacts and material at the Sedgwick Museum and Scott Polar Research Institute. 38 people attended and an abstracts booklet was produced. The event was organised by Cindy Howells (HOGG), Mark Evans (GCG & BAS) and Duncan Hawley (HOGG). HOGG thanks BAS for their support in generously providing the venue.
- August 13th: An online 'Wikipedia workshop', led by Prof. David Pyle and Anne Barrett, enabled participants to add new pages on lesser-known geologists and/or corrections to existing entries on the history of geology. 22 members attended and several new entries and

improvements have been contributed to Wikipedia's history of geology articles. It is the intention to repeat this event again next year.

External engagement and support

The Geological Society of London resubscribed to *Earth Sciences History* journal following lobbying and persuasion from HOGG, and online copies are now available to all Fellows. However, the GSL did not restore subscription to the print copy.

HOGG provided funding for a HOGG young member, Aberdeen University PhD student Phoebe Sleath in support of a film project investigating historical geological art and paintings in the western isles of Scotland. The outcome has been shown at a number of film festivals. A commemoration board for Etheldred Bennett (1776–1845) was installed after some delay (due to bureaucratic issues) in the churchyard of her home village Norton Bravant, Wiltshire, England, in September 2024 by the Wiltshire Geological Society. HOGG provided both financial and lobbying support for the installation. HOGG is pleased to have played a significant part in promoting recognition of the significant role Etheldred Bennett played in early 19th century geology.

HOGG nominated Dr. Martina Köbl-Ebert for the Geological Society of London's Sue Tyler Friedman Medal for distinguished contributions to History of Geoscience and was delighted to learn that Dr. Köbl-Ebert was awarded the Medal for 2024.

The International Union of GeoSciences (IUGS), designated a HOGG nominated historical site, 'The First True Silurian' (Wye Valley, Wales), compiled by Duncan Hawley, as a Geological Heritage Sites in the Second 100 of the Geological Heritage Sites project. https://iugs-geoheritage.org/geoheritage_sites/cavansham-ferry-and-llanstephan-quarries/

Yorkshire Geological Society and the Yorkshire Philosophical Society convened a bicentenary symposium, *William Smith Bicentenary Celebration: Geo Britannica in Northern England (The Impact of Geology on Northern England)*, in September 2024 to mark the lecture series given by William Smith, assisted by John Phillips, to the Yorkshire Philosophical Society, in York in 1824. The event was held at the Yorkshire Museum. HOGG members Colin Speakman presented on *The first lectures of William Smith*, Duncan Hawley presented on *The Yorkshire Philosophical Society William Smith Map of 1824: a unique variant*, and Ru Smith presented in *The Miners' Stratigraphy and the 18th century roots of stratigraphic geology*.

HOGG was present at the Festival of Geology in November 2024, organised by the Geologists' Association, held at the Geological Society of London apartments in Picadilly, London, with a stall that offered books and maps for sale and dispensed HOGG publicity postcards. John Henry gave a 'show and tell' of the two geological maps that hang side-by-side at the bottom of the apartment's staircase, viz. Greenough's 1820 'Geological Map of England and Wales' and William Smith's 'Delineation of Strata' map. Tom Sharpe gave a lecture on 'Mary Anning, The Fossil Woman'.

Online Activity and Social Media

HOGG maintained its webpage <https://www.geolsoc.org.uk/hogg> hosted on the Geological Society website. The HOGG Twitter (X) feed had 3,824 followers (an increase of 317 since 2023) and was active throughout 2024. Posts include some original tweets but more often are re-tweets or additions to other posts of interest to HOGG members. In the latter half of 2024, technical difficulties resulted in the link to the feed being taken down from the HOGG page hosted by the Geological Society. For this, and for ethical reasons the HOGG Committee decided to migrate the HOGG social media account from X to Blue Sky. The new account is **@hoggroup.bsky.social**.

HOGG Publications

HOGG Bulletin

Eight issues, Nos. 22 to 29, with listings of events, publications and other news from HOGG and the wider history of geology community were published during 2024 and distributed approximately every six weeks by email to all HOGG members and associates.

GeoHistories

Two issues of the HOGG Magazine, Nos. 76 and 77 were published (each 36 pages, including covers) and distributed to members. The issues contained the ‘proceedings’ of HOGG events, with summaries by presenters or attendees, a number of original articles plus a range of regular features. The high quality of the magazine was retained. *GeoHistories* is a member-only publication and is not made available more widely, with the exception of a copy deposited in the Geological Society Library. Articles included:

- Bicentenary Re-enactment – Bedford St., WC2: Leah Demetriou
- Bicentenary Symposium at OUMNH: Vivienne Kendall
- ‘Working with Charles Lyell’ workshop: Anne Barrett
- Brief Encounters: Charles Lyell meets Mary Anning: Tom Sharpe
- Karl Mayer-Eymar and Scientific Priority: Anthony Brook
- A sad story told by a small rock – another chapter: Beverly Bergman & Phil Stone
- Tracing the author of *The Lymiad*: Hugh Torrens
- The Wold Cottage Meteorite: Roger Osborne
- The Rowton Meteorite: Peter Tandy
- The Ashdon Meteorite: Gerald Lucy and Mike Howgate
- The role of penguins in Antarctic geology: Phil Stone
- Andrew Clemens and his incredible Sand Bottles: Phil James
- Mary Anning’s copy of J.S. Miller’s *Crinoidea*: Tom Sharpe
- ‘He is hideous’ – the unusual appearance of Col. Birch: Mark Evans
- The lost silhouettes: new portraits of Mary Anning: Tom Sharpe and Hugh S. Torrens
- Thomas Weaver: Gloucester’s neglected geologist: Peadar McArdle
- John Carrick Moore (1805-1898) FGS, FRS: John Henry
- Mr Owens’ Identity revealed: Hugh S. Torrens

Publications by UK HOGG members in 2024

There were fourteen publications by HOGG members during 2024.

- Chancellor, G.R. 2024. Introduction to and transcriptions of Darwin's geological specimen catalogues DAR 236. Cambridge Digital Library. <https://cudl.lib.cam.ac.uk/view/MS-DAR-00236/1>
- Chancellor, G.R. 2024. Signal Post Hill and Agua de la Zorra: two geological sites studied by Charles Darwin on the Beagle voyage and their contributions to geoheritage In: Clary et al (eds) *Geology's Significant Sites and their Contributions to Geoheritage. Geological Society, London, Special Publications*, **543**, 217-228. <https://doi.org/10.1144/SP543-2022-217>
- Hawley, D. & Sharpe, T. 2024. Milestones in the history of Scottish Geology. Chapter 2, in: Smith, M. and Strachan, R. *The Geology of Scotland* (5th edition). London: The Geological Society. <https://doi.org/10.1144/GOS5-2022-56>
- Holliday, D., Tymon, A. and Tymon, B. 2024. George Tate (1805–71) of Alnwick, an amateur Victorian polymath, and his contribution to geology in Northumberland and SE Scotland. *Proceedings of the Yorkshire Geological Society*, 65. DOI <https://doi.org/10.1144/pygs2023-0>
- Hide, L. 2024. Darwin's Chalcopyrite: Engaging Museum Audiences with Global Extractive Stories. *Museum & Society*, **22**(3), 162-175. <https://journals.le.ac.uk/index.php/mas/article/view/4593>
- Hillman, J. 2024. Invisible Labour in the Woodwardian Collection. *Museum & Society*, **22**(3), 43- 58. Available at: <https://journals.le.ac.uk/index.php/mas/article/view/4577>
- Lincoln, P. C., & Colley, I. 2024. A New View of Lake District Geology, Past and Present, at Kendal Museum, England: A Case Study in Community Involvement. *Geoconservation Research*. <https://oiccpres.com/gcr/article/view/8096/8912>
- Rose, E.F. P. 2024. Gordon Lyall Paver (1913–1988) and 42nd Geological Section, South African Engineer Corps: Military geology and geophysics in World war II supporting British Army operations: Part 1, The East African Campaign 1940–194. *Earth Sciences History*. 43 (1),
- Rose, E.P.F. and Clatworthy, J.C. 2024. Mud and blood in the final months of World War II: 'soil' maps of north-west Germany that helped to guide British and Canadian military operations in early 1945. *The Cartographic Journal* **61**: 22pp. DOI: 10.1080/00087041.2024.2376375
- Rose, E.P.F. and Pareyn, C. 2024. *D-Day Landings in Normandy* (Second edition). Geologists' Association Guide No. 64. London: Geologists' Association. ISBN: 9781999675776. 176–197. <https://doi.org/10.17704/1944-6187-43.1.176>
- Sharpe, T. 2024. Mary Anning the Lyme Regis fossilist: the Edinburgh connection. *The Edinburgh Geologist Magazine of the Edinburgh Geological Society*, **76**, 21–29
- Sharpe, T. 2024. Early Jurassic sequence of Lyme Regis, Dorset, England and its place in the history of geology and palaeontology. In Clary, R.M., Pyle, E.J. and Andrews, W.M. (eds). *Geology's Significant Sites and their Contributions to Geoheritage*. Geological Society, London, Special Publications, **543**, 253-265. <https://doi.org/10.1144/SP543-2023-42>

COUNTRY REPORTS (2024)

- Stone, P. & Aspen, P. 2024. From Bo'ness to Svalbard: the coal mining ambitions of the Scottish Spitsbergen Syndicate (1909–1952). *The Edinburgh Geologist Magazine of the Edinburgh Geological Society*, **76**, 4–12.
- Stone, P. and Rushton, A. W. A. 2024. Charles Darwin's discovery of Devonian fossils in the Falkland Islands, 1833, and its controversial consequences. In: Clary, R.M., Pyle, E.J. and Andrews, W.M. (eds).. *Geology's Significant Sites and their Contributions to Geoheritage*. Geological Society, London, Special Publications, **543**,205-216. <https://doi.org/10.1144/SP543-2022-19>
- Torrens, H. 2024. *The Practice of British Geology, 1750–1850*. Variorium Collected Studies, Reprint. London: Taylor & Francis. 372 pages. ISBN 1040247776, 9781040247778

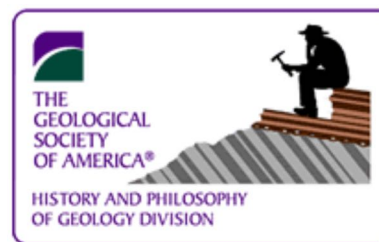
Publications by other UK authors in 2024

- Buckland, A. (2024). Women Geologists 1780–1840: Re-reading Charlotte Murchison. In: Aronova, E., Sepkoski, D., Tamborini, M. (eds) Handbook of the Historiography of the Earth and Environmental Sciences. Historiographies of Science. Springer, Cham. https://doi.org/10.1007/978-3-030-92679-3_7-3
- Butler, R.W.H., Torvela, T, Williams, L. 2024. An introduction to geological mapping of our world and others. In: Butler, R. W. H., Torvela, T, Williams, L. (eds.) 2024 Geological Mapping of Our World and Others. *Geological Society of London Special Publication*, Volume **541**. Online (open access) at <https://www.lyellcollection.org/doi/full/10.1144/SP541-2023-201>
- Desmond, A. 2024 *Reign of the Beast: The Atheist World of W. D. Saull and his Museum of Evolution*. Open Book Publishers. Open access read online or download, or purchase print copy at <https://www.openbookpublishers.com/books/10.11647/OBP.0393>
- Grant, G. and Swinbank, E. 2024. Retrospective Thinking: Decolonizing Minerals at National Museums Scotland. *Museum & Society*, **22**(3), 117–134. <https://journals.le.ac.uk/index.php/mas/article/view/4594>
- Leeder, M. 2024. *Geology and the Pioneers of Earth Science*. Liverpool University Press.
- Manias, C. 2024. William Boyd Dawkins: Race, geology and the deep past in Manchester, 1869–1929. In: Jones, S. (ed). *Manchester minds A university history of ideas*. Manchester University Press. eISBN: 9781526176332 Chapter DOI: <https://doi.org/10.7765/9781526176332.00015>
- Taylor, M. 2024. *Impossible Monsters: Dinosaurs, Darwin and the War Between Science and Religion*. London: Bodley Head. 480pp. ISBN10: 1847926789, ISBN13: 9781847926784

UNITED STATES OF AMERICA

The report for the History and Philosophy Division of the Geological Society of America is submitted by Kerry Magruder.

Note: The GSA’s History and Philosophy of Geology Division (<https://community.geosociety.org/histphildiv/>) would change its name in 2025 to the History, Philosophy, and Geoheritage Division, retaining the “HPGD” acronym. More will appear about this transition in the next Annual Record.



Anaheim Convention Center, GSA Connects 2024

HPGD Annual Meeting

At the 2024 “GSA Connects” (Annual Meeting) in Anaheim, California, the Division sponsored two sessions: T40 “Human Dimensions of Geoheritage”; and T79 “Found in the Collection: Histories revealed.” (See the Conference Reports section, above.) It sponsored a Student Luncheon at no cost for students attending the convention, and held meetings of the Management Board and a members business meeting. At the latter, the following awards were presented:

- Mary C. Rabbitt History and Philosophy of Geology Award: Dr. Silvia Fernanda de Mendonça Figueirôa. (See the Awards section, above.)
- 2024 Student Travel Awardee: Cheyenne Woodward.

The Division sponsors Rock Star articles in the *GSA Today* periodical. Renee Clary published “Nevertheless, She Persisted: Winifred Goldring,” in the November 2023 issue, vol 33/11.

The Division donated \$100 to Stephen Hannath for a sign in Etheldred Benett’s graveyard, approved by board on April 14, 2023, and disbursed June 2024.

COUNTRY REPORTS (2024)

HPGD Organization and Management

The GSA HPGD Division Management Board for 2024 was: Patricia Coorough Burke (Chair), Philippe Claeys (First Vice Chair), Kerry V. Magruder (Second Vice Chair), Patricia Bobeck (Past Chair), Anna Whitaker (Student Representative) and Christopher L. Hill (Secretary/Treasurer). For 2024 Patricia Coorough Burke, Renee Clary and Paul Mayer served as the members of the Program Committee; Eric Pyle, William Parcell, and Kathryn Pauls served as the Nominating Committee; Jody Bourgeois, David Spanagel and Ashley Dineen served as the Awards Committee. The JTPC representatives were Renee Clary and Patricia Coorough Burke. The web manager is William Parcell. The GSA Council Liaison is Craig Jones.

HPGD Member Information

The History and Philosophy of Geology Division had 265 members as of August 2024. The majority were from North America (n = 245), but members included many from Europe and South America and some from all over the world: Europe (n = 17), South America (n = 6), Asia (n = 2), Australia and Oceania (n = 1), Sub-Saharan Africa (n = 1) and the Middle East including North Africa and Greater Arabia (n = 2). About 20% (n = 52) were retired, and about 29% were employed at universities or colleges. About 21% of the Division membership were composed of students. Almost 23% of the Division members are GSA Fellows (n = 60).

Vic Baker

Vic Baker continued working on a couple of book projects that were listed in his 2024 INHIGEO Annual Report. His paper “Anomalies, Catastrophic Flooding, and the Nature of Investigative Geological Reasoning” is currently being revised for the forthcoming book, “The Role of Anomalies in Scientific Discovery,” edited by Carol Cleland and Michael Dietrich. Another manuscript is being prepared on the 19th century controversy dealing with the origin of slaty cleavage. He is also beginning work on a partly historical overview of the philosophy of geology for the forthcoming reference work, “Comprehensive Philosophy of Science.” His contribution would be part of the section “Philosophy of the Geosciences,” edited by philosophers Aja Watkins and Miguel Ohnesorge.

Kennard B. Bork

Ken Bork moved back to Ohio (see Membership). He is organizing his papers (print and digital) for an archive to send to the University of Oklahoma History of Science Collections. *Update:* Kennard Bork passed away in June 2025. An obituary and update on his archive will be included in the next Annual Record.

John Diemer

John Diemer continued to serve as editor for the journal *Earth Sciences History* during 2024. He also served for the first part of 2024 as Editor of INHIGEO and compiled the *Annual Record* (No. 56) which is available on the INHIGEO website. He participated in the following meetings:

- (1) Attended the Lyell field notebooks workshop held at St. Cecilia's Hall, Edinburgh University, 8-9 February 2024
- (2) Attended the re-enactment of the first announcement of *Megalosaurus*, 20 Bedford Street, London, 20 February 2024. Sponsored by the History of Geology Group (HOGG).
- (3) Attended the *Megalosaurus* meeting at Oxford University Museum of Natural History, 21 February 2024. Co-sponsored by the History of Geology Group (HOGG).
- (4) Participated in the INHIGEO Annual Meeting held in conjunction with the International Geological Congress, Busan, South Korea, 25–31 August 2024, and fieldtrip to Nagasaki Japan and vicinity, 1-4 September 2024

Editor

Diemer, J. A. (ed.) 2024. *Earth Sciences History*. Volume 43, Number 2, pp. 205–466. Charlotte: History of the Earth Sciences Society. Editor's Introduction, pp. iii–iv. This theme issue contained 6 papers first presented at the 6th International Paleontological Congress in Thailand, as well as 6 volunteered papers.

Diemer, J. A. (ed.) 2024. *Earth Sciences History*. Volume 43, Number 1, pp. 1–204. Charlotte: History of the Earth Sciences Society. Editor's Introduction, pp. iii–iv. This theme issue contained 6 papers first presented at the STRATI 2019 Meeting in Milan, Italy, as well as 5 volunteered papers.

Diemer, J. A. (ed.) 2024. *International Commission on the History of Geological Sciences (INHIGEO) Annual Record No. 55*. Editor's Introduction, p. ix.

Conference presentations

Diemer, J. 2024. Crossing the Urals: A glimpse into Asia in 1841. *49th Annual INHIGEO Meeting*, Busan, South Korea.

Carl Drummond

I am excited to offer a brief report of activities during 2024. First and foremost I became a member of INHIGEO, a fact of which I am particularly proud. Additionally I agreed to begin a two year term as president-elect of the History of Earth Science Society. Finally, I was fortunate to have two articles published in *Earth Sciences History*: Some characteristics and causes of changes in the rate of discovery of new minerals since 1800. ESH 43(1): 118-139; Origins and outcomes of the 1961 SEPM/AAPG carbonate rock classification symposium. ESH 43(2): 423-452.

COUNTRY REPORTS (2024)

Steve Rowland

My only history-of-geology activity in 2024 involved the writing of a musical play (and working with composers on the music) about a fascinating archaeological/paleontological excavation done in 1930 in a cave near Las Vegas, Nevada (see photo below), and the scientific, historic, and cultural context in which it occurred. Update to come in next year's report.



Kenneth L. Taylor

Ken was awarded INHIGEO's V.V. Tikhomirov History of Geology Award. (See the Awards section, above.) Ken has also worked to establish a collection of his books and papers in the OU History of Science Collections. The books are cataloged and the papers are in processing.

UZBEKISTAN

Report submitted by B. S. Nurtaev and O. G. Tsay

This year Uzbekistan signed agreements with the EU, the US, South Korea and Germany on critical mineral resources that are vital for clean energy technologies, and the production of various high-tech products (<https://www.spot.uz/ru/2024/10/15/critical-minerals/>).

The same year marked the 75th anniversary of the formation of JSC Almalyk Mining and Metallurgical Complex (AMMC) – one of the leading enterprises of the metallurgical industry of Uzbekistan and the largest copper producer in Central Asia and CIS countries. This event is dedicated to the Issue № 4 (99) of the journal ‘Mining Bulletin of Uzbekistan’, which published congratulations of Islamov B.F. (Minister of Mining and Geology of Uzbekistan), Sanakulov K. (General Director of Navoi Mining and Metallurgical Complex) Chernikova A. A. (Rector of the University of Science and Technology MISIS), O. Parpiev (Director of the Institute of Materials Science of the Academy of Sciences of Uzbekistan), Qin Junman (China NFC Company), Dr. Toralf Haag (Chief Executive Officer of the Voith Group). It was noted that at present 35 thousand staff of miners, metallurgists, drillers, geologists, motor transport workers, power engineers, builders and many other related professions work at the AMMC. With the direct participation of the combine, the social and living conditions of the residents of Almalyk, Angren, and settlements are improving, the appearance of these settlements is improving, and new infrastructure facilities are being built.

Conferences:

The 37th International Geological Congress was held in Busan, Republic of Korea in September, 25-31. Overall, 27 abstracts from Uzbekistan were published in the Proceedings, of which following 8 are relevant to the history of geology:

Azimov, J.N. State and development of geoparks in the Republic of Uzbekistan.

Bimurzaev, G., Nurtaev B., Kadirhodjaev A. Man-induced landslides in Uzbekistan: overview and case studies.

Ermolaev, G.S. Rootless ore deposits of Tien-Shan.

Isokov, M.U. Oil shale of Uzbekistan – complex raw materials of multi-purpose.

Jurabekov, N.J., Xaydarova, A.B. Economic cooperation between South Korea and Uzbekistan on critical metals.

Kadirhodjaev, A., Bimurzaev, G., Tulyaganov, B. Characters of Landslides Development in Arid Areas, Assessment and Trends.

Radjabov, Sh., Atabaev, D., Tukhtasinov, A., Amirqulov, J., Majidova, Sh. Geological structure of the Cenozoic strata of the Fergana region in the light of oil and gas prospects.

COUNTRY REPORTS (2024)

Tsay, O.G., Nurtaev, B.S. Decision-tree models used to detect mineral deposits in Uzbekistan by analyzing ring, lineament structures, and faults.

On 7 November, Tashkent hosted the Republican Scientific and Practical Conference ‘Fundamental, applied and innovative solutions to geological problems in sustainable development of Uzbekistan’, and on 8 November, the participants visited AGMK. The event was organized by the Ministry of Mining and Geology, the University of Geological Sciences and the State Unitary Enterprise ‘Institute of Geology and Geophysics named after Kh.M. Abdullaev’ (Photo 1-2). 6 sections were organized at the conference. Conference Proceedings were published (Editor-in-Chief A.B. Kholikov. 584 p.), which included theses of scientists from Italy, Uzbekistan, Kazakhstan, China, Russia and Tajikistan.



Photo 1. Conference's participants.



Photo 2. Excursion to AMMC.

Of 146 reports, the following 21 are related to the history of geology:

- Abdiraimov, J.M., Yangiboev, Sh.B., Rustamov, Sh.T. New findings of marine biota (mollusks, foraminifera) in the Karnap Formation of Zirabulak-Ziaetdin region.
- Abduazimova, I.M., Zhovliev, B.A., Samiev, A.A. Features of Cretaceous-Palaeogene boundary in Zirabulak-Ziaetdin region.
- Akramrov, Kh.A. Prospects of increasing oil and gas reserves and resources in Surkhandarya oil and gas bearing region.
- Antonov, A.E., Dzhabbarov, B.N. Theoretical and practical significance of the joint presence uranium and hydrocarbons in single sedimentary basins.
- Goipov, A.B., Turgunaliyev, M.Kh. On the creation of the updated map of magnetic anomalies of a new generation in scale 1:200000 of the territory of Uzbekistan.
- Dunin-Barkovskaya, E.A., Bulina, N.B., Umarov, A.Z. To the problem of searching for deep hydrocarbon sources in the Fergana depression.
- Ziyodullaev, G.Sh. History of geological study and geological structure of Malguzar Mountains.
- Karabaev, M.S., Amirov, E.M. To the age of gold mineralization of Central Kyzylkum and search prospects.
- Karimova, F.S. Development of reef deposits in Uzbekistan.
- Karshiev, O.A., Yuldashev, M.G., Gaffarov, M.A. Scientific analysis of deep drilling results – a way to increase the success of geological exploration works for discovery of oil and gas deposits discovery.
- Krivosheeva, A.N. Mineralogical and geochemical search signs of gold mineralization in the Zarmitan gold ore zone.
- Mirkhodjaev, B.I., Zhuraev, M.N. Scientific heritage of Academician Khabib Abdullaev (school of metallogeny).
- Nurtaev, B.S., Abdirashidov, A.M., Eshmurodov, A.P. Some regularities of location of large gold deposits of the Tien Shan.
- Oktamov, U.H., Shodmonov, O.O., Rare Elements in the Earth's crust and prospects for their study in Uzbekistan: a global analysis.
- Pulatova, A.V. Actual problems of geocology under conditions of technogenesis and climate change. Anthropogenic sources of technogenesis.
- Smirnov, A.N., Karimova, F.S. Late Permian sphinctozoa of the eastern end of the Bukantau (Central Kyzylkum).
- Song, Y., Shukurov, N., Kang, Sh., Wei, H., Shukurov, Sh., Zhang, M. Holocene climate change and dust activity near Tashkent in Eastern Uzbekistan.
- Turesebekov, A.Kh., Shukurov, N.E., Sadikova, L.R., Shukurov, Sh.R. Discovery of technetium element in high complex uranium-vanadium deposits of Central Kyzylkum of Uzbekistan.

COUNTRY REPORTS (2024)

- Tursunmetov, R.A., Ismailov, B.J., Gafurov, T.A., Tyo, V.S., Khasanbaev, Kh.F., Andreev, D.N. Identification of sources of low-enthalpy geothermal energy of groundwater in the foothills.
- Kholikov, A.B. Main non-traditional complex formations of PGM (platinum group metals) of Central Kyzylkum (Uzbekistan).
- Shomukhsinov, O.R., Varisov, A.A. Geological characteristics and history of development of lead-zinc deposit Uch-kulach.

The Journal *Geology and Mineral Resources* has published research 19 articles relevant to the history of geology:

- Abduazimova, Z.M., Abduazimova, I.M., Jovliev, B.A., Samiev, A.A. Abiotic and biotic global and regional events at the Mesozoic-Cenozoic boundary and their importance for mineral resource prospecting (*N 6*).
- Abdullabekov, K.N., Yusupov, V.R. State of scientific research on the problem of earthquake prediction in Uzbekistan and further ways for their development (*N 2*).
- Akhundjanov, R., Karimova, F.B. About sources of boron and accompanying metals (*N 1*).
- Akhundjanov, R., Karimova, F.B., Jumaniyazov, D.I. Accessory-mineral specialization of Uzbekistan granitoids for rare and rare-earth metals (*N 5*).
- Antonov, A.E. Modern understanding of the geological structure of the Muruntau ore field and the possibility of increasing reserves (*N 2*).
- Dunin-Barkovskaya, E.A., Umarov, A.Z., Bulina, N.V. The importance of geological reserves and museums as guardians of historical and geological heritage (*N 1*).
- Islamov, B.F., Kadyrkhodjaev, A.A., Pulatov, N.B., Bekmurzaev, G.A., Akhunov, F.A. Development of hydrogeological research in Uzbekistan and their trends in the future (*N 6*).
- Ismailov, B.Zh., Bakiev, S.A., Ibragimov, A.S. Current state and prospects for development of resources of mineral water deposits of Uzbekistan (*N 6*).
- Kholikov, A.B. How to diversify sources and markets of critical raw materials in Uzbekistan (*N 2*).
- Kholikov, A.B. Possible sources of Uzbekistan's own platinum group metals deposits (*N 5*).
- Maksudov, S.Kh. On the problem of applying geophysical methods in searching and exploring deposits of mineral resources in Uzbekistan (*N 3*).
- Mirkamalov, R.Kh., Divaev, F.K., Vanesyan, G.A., Uzokov, R.T. On the problem of searching for manifestations of natural hydrogen in Uzbekistan (*N 2*).
- Musaev, A.M. Diatrema Baynazar Aisha – a new manifestation of lamproites in Central Kyzylkum (*N 1*).

- Niyazov, R.A., Mazunina, G.I., Erkebaev, S.T., Tashpulatov, M.M., Bimurzaev, G.A. Analysis of the content of the catalog of landslide processes over 65 years (1958-2022) in Uzbekistan, and assessment of the frequency of their formation over time by natural cycles, regions and basins of the sairs (*N 4*).
- Nurtaev, B.S., Eshmurodov, A.P., Abdirashidov, A.M. Some regularities of location of large gold deposits of the Tien-Shan: metallogenic settings, control parameters and search criteria (*N 6*).
- Nurtaev, D.B. Geological and structural features of turquoise deposits in the Kurama and Central Kyzykum regions of Uzbekistan) (*N 3*).
- Razikov, O.T., Turakulov, A.U. New aspects of metallogeny of Uzbekistan (*N 1*).
- Turamuratov, I.B. Critical raw materials – basic concepts. their importance for the economies of countries and future expectations (*N 2*).
- Turamuratov, I.B., Maripova, S.T. Artificial intelligence: the history of development. current state and prospects of its application in geological research in Uzbekistan (*N 1*).

The journal *Mining Bulletin of Uzbekistan (Issue N 4 (99))* published articles dedicated to the 75th anniversary of the formation of JSC Almalyk Mining and Metallurgical Complex (AMMC):

- Larionov, S.V., Khalbutayev, Sh.P. Historical chronicle of development of Kauldy deposit of JSC ‘Almalyk MMC’.
- Umaraliev, I.S., Vakkasov, B.A., Dzhuraev, N.Sh. Copper smelting plant – the “heart” of JSC ‘Almalyk MMC’.
- Khursanov, A.Kh. JSC ‘Almalyk Mining and Metallurgical Complex’ as it is: with the past, in the present and future.

News, Chronicle, Information:

- Musaev, A.M. Dynamic model of granitoid intrusions of Western Uzbekistan (*Geology and Mineral Resources, N 2*).
- Pirnazarov, M.M., Ishbaev, Kh.D. Review of the book: New geological map of Uzbekistan at a scale of 1:500000 (*Geology and Mineral Resources, N 1*).
- Rafikov, Y.M., Ishbaev, Kh.D. General remarks on stratification of volcanogenic strata of Chatkal-Kurama region (*Geology and Mineral Resources, N 4*).
- Tsoi, V.D. Review of the book ‘History of the Departments of Mineralogy, Geochemistry and Petrography of the National University of Uzbekistan’ by E.A. Dunin-Barkovskaya, A.Z. Umarov, N.V. Bulina (*Geology and Mineral Resources, N 6*).

COUNTRY REPORTS (2024)

Published books:

The journal *Mining Bulletin of Uzbekistan* (Issue N 1(96)) provides information on the publications of JSC Navoi Mining and Metallurgical Complex ‘NMMC’ (*Edited by Professor Sanakulov K.*):

On mining and metallurgy. Translation into Uzbek of 12 books by Georgi Agricola “On Mining and Metallurgy”. Translators: V. Bazarova and A. Khasanov. ISBN 978-9943-8533-6-2.

Reference book. Harmful substances. Their classification and general safety requirements. ISBN 978-9943-8533-6-2.

Gold: history, geography, technologies (collection of articles). The collection includes 95% of publications from the journal Gold Mining (JSC ‘IRGIREDMET’) for the period from 2013 to 2022. ISBN 978-9910-9927-2-8.

Anniversaries:

On the 90th anniversary of the birth of:

RAKHIMOV VAKHOB RAKHIMOVICH – DSc in Technical Sciences, Professor, full member of the Academy of Sciences of Uzbekistan, academician, honoured worker of science and technology of Uzbekistan, famous scientist-miner, organizer of training of mining engineers-markers, founder of scientific school of Mining Geomechanics in Uzbekistan, author of more than 450 scientific works, including more than 60 publications in foreign journals, 12 monographs, 10 textbooks and manuals, 21 inventions, protected by certificates of authorship and patents, corresponding member (1984), full member of the Academy of Sciences of Uzbekistan (2000), academician of the Academy of Mining Sciences of the Russian Federation (2002), honoured with the title “Honoured Worker of Science and Technology of Uzbekistan” and the sign of Miner's Glory of all degrees, awarded the Order of “Mehnat Shukhrati” (2004), the Order of Friendship for services in training scientific and technical personnel for the Socialist Republic of Vietnam (2012) (*Mining Bulletin of Uzbekistan, No. 4 (99)*).

On the 80th anniversary of the birth of:

AKHMEDOV KHAMIDJAN – PhD in Technical Sciences, Senior Researcher, full member of the International Academy of Ecology and Life Safety Sciences, author of more than 200 articles, 4 author's certificates and 4 patents of Uzbekistan, awarded with the memorial sign “30th anniversary of Independence of Uzbekistan” (2021) (*Geology and Mineral Resources, N 1*).

On the 75th anniversary of the birth of:

BAKIYEV SAIDNASIM ALIMOVICH – DSc in Geological and Mineralogical Sciences, Professor, Chief Researcher of GU “Institute of GIDROINGEO”, co-author of 6 monographs and 3 published maps on geoecology, mineral and industrial waters, more than 100 scientific articles, 9 patents for the method, equipment and technological regulations for the production of iodine and sulphur, participated in the compilation of the fifth volume of the Encyclopaedia of Uzbekistan (in Uzbek language, 2004), member of the editorial board of the journal “Geology and mineral resources of Siberia” (Russian Federation, 2019). For the first time in Uzbekistan under his supervision 100% crystalline iodine was obtained from groundwater of Gurtepa deposit (Namangan region), feasibility study of iodine conditions was approved (1997), reserves of industrial water of Jarchi (1989), Gurtepa (1998) and Kruk (2004) deposits were calculated and approved by the State Committee of Uzbekistan, method and equipment for extraction of iodine from industrial groundwater were developed together with colleagues (*Geology and Mineral Resources, N 5*).

On the 70th anniversary of the birth of:

GANIEV IBRAKHIMDZHAN NABIYEVICH – leading scientist-petrologist, associate professor of the Department of Geochemistry and Mineralogy of NUUz, member of the Central Asian Petrographic Council (CAPC) (1987), author and co-author of 170 works, including 5 monographs, 2 dictionaries, 3 textbooks, 12 manuals, scientific articles, theses of reports, thematic geological maps and educational and methodological works (*Geology and Mineral Resources, N 6*).

On the 60th anniversary of the birth of:

ISHBAEV KHALBAI DZHANGIROVICH – leading scientist-petrologist, DSc in geological-mineralogical sciences, professor, author and co-author of more than 150 scientific works, including 3 monographs, 2 textbooks, 3 manuals, Chairman of the Uzbekistan Petrographic Council and Scientific Council for awarding doctoral dissertations in geological and mineralogical sciences, member of a number of expert councils on earth sciences, member of editorial boards of the journals “Geology and Mineral Resources”, “Earth Sciences” and “Annals of Earth Science and Geophysics” (USA), “Mineralogy Society of Uzbekistan” and “International Association of Mining and Mineralogy” (IAGOD) (*Geology and Mineral Resources, N 6*).

In memory of colleagues:

On the 80th anniversary of the birth of:

RUSTAM ISMAILOVICH KONEEV (24.09.1944-24.11.2019) – Professor of the Mirzo Ulugbek National University of Uzbekistan, DSc in Geological and Mineralogical Sciences, Chairman of the Mineralogical Society of Uzbekistan, author and co-author of more than 200 publications, of which about 40 in English (the most famous monograph: “Micromineralogy –

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subject, method, application”, 1994), Chairman of the Mineralogical Society of Uzbekistan (2003), which in 2004 became a member of the International Mineralogical Association (IMA). He is a Corresponding member of the Russian Mineralogical Society, member of the British Mineralogical Association, the Society of Applied Geology (SGA), the International Association for Ore Deposits (IAGOD), the European Geological Union (EGU), Editorial Board of the journal “Bulletin of the Institute of Geology” (Syktyvkar, Russia) and Editorial Board of the journal “Geology and Mineral Resources” (2009) (*Geology and Mineral Resources, N 5*).

Losses of science:

ALISHER *MUSAEVICH MUSAEV* (1937-2023) – representative of the petrological school of Uzbekistan, leading scientist in the field of experimental petrology, senior researcher, PhD in geological and mineralogical sciences, author of more than 100 works, including 4 collective monographs, awarded the medal “Veteran of Labour” (*Geology and Mineral Resources, N 1*).

11. CUMULATIVE BIBLIOGRAPHY

The Cumulative Bibliography is edited by Francesco Gerali for INHIGEO and is being issued in installments in Annual Records, beginning in No. 47 for 2014 and most recently in No. 54 for 2021. The purpose is to create a comprehensive bibliography of the historical publications of INHIGEO members throughout their entire careers, even prior to membership in INHIGEO. On an ongoing basis, the cumulative bibliographies will be updated with items reported in the Annual Record. The editor will format them in a consistent style, in many cases with the addition of information about translations, online access, and other aspects of publication. The editor welcomes news, particularly from new members, of past publications which may not have appeared in previous Annual Records (francesco.gerali@uwa.edu.au). The editor plans to integrate this bibliographical information into an international web project designed to reach a wide audience of historians of science.

Edited by Francesco Gerali, Cumulative Bibliography Project Curator

Morocco

The Netherlands

New Zealand

Norway

MOROCCO

Khallaf El Ghalbi, Moulay Ismail University of Meknes, Morocco.

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APPENDIX A: AFFILIATED ASSOCIATIONS

(Current as of July 2025)

International	History of Earth Sciences Society (HESS)
Argentina	Comisión Argentina de Historia de la Geología / Argentina Commission on the History of Geology
Australia	Earth Sciences History Group, Geological Society of Australia (ESHG)
Austria	AG Geschichte der Erdwissenschaften (AWGHES) / Working Group “History of Earth Sciences”, Austrian Geological Society
Chile	Grupo de Historia de la Geología / History of Geology Group, Geological Society of Chile
China	Commission on the History of Geology, Geological Society of China
France	Comité Français d'histoire de la Géologie (COFRHIGEO) / French Committee for the History of Geology
Italy	Sezione di Storia delle Geoscienze / History of Geoscience Section, Geological Society of Italy
Japan	Japanese Association for the History of Geosciences (JAHIGEO)
Poland	Polish Commission on the History of Geological Sciences (POCHIGEO), Polish Geological Society; Polish Geological Institute
Serbia	Секција за историју геологије СГД / History of Geology Division, Serbian Geological Society
United Kingdom	History of Geology Group (HOGG), Geological Society of London
Venezuela	Sociedad Venezolana de Historia de las Geociencias / Venezuelan Society of History of Geosciences

Note: The officers of the History, Philosophy, and Geoh heritage Division (HPGD) of the Geological Society of America (GSA) have petitioned the GSA for the HPGD to become an affiliate of INHIGEO. Meanwhile, the HPGD continues to collaborate with INHIGEO and views its mission and members as overlapping.

APPENDIX B: HONORARY SENIOR MEMBERS

(Current as of July 2025)

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Listed alphabetically by last name.

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Professor Kenneth L. Taylor, USA
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Professor J.B. (Bruce) Waterhouse, New Zealand
Professor Zbigniew Wójcik, Poland

APPENDIX C: NEW MEMBERS (2024)

In the membership lists below, O = Ordinary Membership; A = Associate membership. Addresses are provided in the 'INHIGEO Members' list; see Appendix D.

Elected 2024

In 2024, at the 49th Annual Symposium in Busan, South Korea, INHIGEO welcomed 8 new members from 5 countries. One was an Associate Member and 7 were Ordinary Members.

New Member	Country
Ibukun Adenle (A)	Nigeria
Jana Bruthansova (O)	Czech Republic
Carl Drummond (O)	USA
Joshua Hillman (O)	UK
Gregory Todd (O)	USA
Naomi Oreskes (O)	USA
Takeshi Ozawa (O)	Japan
Tom Sharpe (O)	UK

APPENDIX D: INHIGEO MEMBERSHIP LIST

(O) Ordinary Member
(A) Associate Member
(HSM) Honorary Senior Member
Bottom line indicates national affiliation.

Change in Contact Details?

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APPENDIX E: INHIGEO MEMBERSHIP NOMINATION FORM

Name:	
Country:	Birth date:
Address:	Telephone:
	Email:
	Languages:
Education (with dates)	Positions held (with dates)
Areas of interest in the geosciences:	Areas of interest in the history of the geosciences:
Scientific publications (summary):	History of geosciences publications (attach):
Membership type:	Nominator:

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Indicate preference for either Ordinary Membership (given demonstrated achievement in the history of geosciences) or Associate Membership.

Nominators: If available: Current INHIGEO member in same country or appropriate Government representative, another INHIGEO member, INHIGEO Board Member.

PLEASE SEND, PREFERABLY BY EMAIL TO THE INHIGEO SECRETARY GENERAL:

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NOMINATION FORM

