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### DVGeo 2023 – A SHORT REVIEW

In 2023, the DVGeo, as umbrella organization of geosciences in Germany, hosted various events to inform decision-makers from political and administrative sectors on core geoscientific topics such as raw materials and carbon capture storage.



The DVGeo continues to reinforce its activities on “Geosciences in School” owing to the fact that geoscience remains excluded from the secondary school curriculum in Germany. The DVGeo organized the inaugural German Geosciences Olympiad in 2023. This nationwide competition is based on school knowledge from geography, as well as biology, chemistry, and physics, thus providing deeper insights into the geosciences. The German Geosciences Olympiad is also the national selection competition for the established International Earth Science Olympiad (IESO). This Olympiad was designed and organized by representatives from scientific societies from paleontology, mineralogy, geology, and geophysics, as well as the management of DVGeo. The event has a two-stage structure and was strongly supported by the geo-community. The four winners will take part in the IESO, which will take place in China in 2024.



German Geosciences Olympiad: Winner Meret Urban (LEFT) with her teacher Tom Fleischhauer (RIGHT) from Jena, Thuringia. PHOTO: DVGeo.

**Tamara Fahry-Seelig** (Berlin)

### DMG SECTION MEETING 2024

#### Petrology/Petrophysics & Geochemistry

Save the date for June 7–8, 2024 in Karlsruhe for the next joint meeting of the DMG Petrology/Petrophysics and Geochemistry sections, where the research activities of both sections will be presented together. Traditionally, the event is intended to offer young scientists (master and doctoral students, and postdoctoral researchers) a forum to present their own work as a talk or poster.

#### Location

The meeting will take place on the southern campus of the Karlsruhe Institute of Technology (KIT). The exact building location for lectures will be announced later.

#### Schedule

The event will start on June 7 at 2 p.m. and is expected to end on June 8 at 4 p.m. with awards for oral presentations and posters. The poster session will take place on June 7 at 5 p.m. The traditional BBQ thereafter offers possibilities to exchange ideas and maintain old contacts or make new ones in a convivial atmosphere.

#### Costs

A contribution towards expenses of 35€ is granted for the various catering costs. As always, travelling DMG student members can apply for a travel allowance of up to 100 €.

#### Registration and Abstract

The expected deadline for registration and abstract submission is May 3, 2024. The abstract template and registration website for the meeting will be announced soon via the email list and at <https://www.dmg-home.org/>.

#### Overnight accommodation

There are several hotels and B&B options near the campus or downtown, which are well connected to the public transport or close by foot.

We hope that many will find their way to Karlsruhe and look forward to hosting this meeting at KIT.

**Audrey Bouvier, Esther Schwarzenbach, Hella Wittmann-Oelze, and Max Wilke**  
(DMG Sections Petrology/Petrophysics & Geochemistry)

**Kirsten Drüppel, Armin Zeh, and Frank Schilling** (Karlsruhe)

### PREDICTIVE GEOMETALLURGY SHORT COURSE IN FREIBERG (SAXONY)

“Predictive Geometallurgy” was the topic of the 18<sup>th</sup> Freiberg Short Course in Economic Geology held at the Helmholtz Institute for Resource Technology (HIF) in Freiberg (Saxony) from December 11 to 15, 2023.



Predictive Geometallurgy short course participants and lecturers. PHOTO: HIF FREIBERG.

The organizers and lecturers were Raimon Tolosana-Delgado (HIF), Max Frenzel (HIF), and Julian Oritz (Queen’s University, Canada). The course addressed interested participants with background knowledge in the field of deposit geology, mineral and ore processing, and/or mining engineering. The number of participants was limited to 30. The course was divided into one morning and one afternoon session and included lectures and exercises.

Apart from a general introduction, the first lectures and exercises dealt with the handling and collection of data that allow the economic and geological characterization of a deposit. An optimal deposit model, which is influenced by many factors, should lead to the optimal exploitation of a deposit. To achieve this aim, methods and approaches from geology, ore characterization, geostatistics, comminution technology, and the mining industry were presented during the course. Guided tours through the HIF’s flotation and analytical laboratories were also offered. The tours not only allowed participants an opportunity to learn more about what they had heard throughout the short course, but also provided an insight into current research topics.

One challenge is to include all of the aspects mentioned in the lectures in models that should produce feasible predictions. The problem of finding the best possible way to model potential uncertainties was also discussed. The lecture series was concluded with two case studies that illustrated these challenges.

In the exercises, the participants were able to try out various models that integrated aspects from the lectures on their own laptops. The programming language R was mandatory for the course, and an optional introductory course was offered on the morning of the first

day. During the exercises and after the lectures, interesting discussions took place, which often continued during the coffee and lunch breaks. At the end of the first day, a barbecue was organized for interdisciplinary exchange among the diverse group of participants. The course ended with a feedback and discussion session about the future of predictive geometallurgy.

A big thank you goes to the organizers and HIF staff for the successful and very informative course.

**Elisa Winkes** (JGU Mainz)

**Trinity College Dublin**  
Coláiste na Tríonóide, Baile Átha Cliath  
The University of Dublin

**Mineralogical Society  
of the UK and Ireland**

**emc<sup>2024</sup>**  
4<sup>th</sup> european mineralogical  
conference • Dublin, Ireland  
18–23 August 2024

<https://www.emc-2024.org>

- 30+ Sessions
- Field trips (3)
- Short courses (3) (16–18 Aug. 2024)
- Site visit to 'National Museum of Ireland Collections Resource Centre'
- Outreach lecture
- Ice-breaker reception and banquet
- Presentations + exhibition by industry representatives
- City-centre location in historic Dublin
- Combine with 'Mineralogy and Museums 10' ([www.mm-10.org](http://www.mm-10.org))
- Free remote registration for those in low- and middle-income countries
- Online registration opens 1 January 2024

Join us in Dublin where you will be assured of a warm welcome, great science, an excellent range of choices of sessions, fieldtrips and workshops. Our conference is fully hybrid and we welcome offers of presentations from colleagues who are unable to attend in person.

Convenors: David Chew and Emma Tomlinson (Trinity College Dublin);  
Kevin Murphy and Russell Rajendra (Mineralogical Society)

## DMG SHORT COURSES IN SUMMER/FALL 2024

DMG will support several short courses in Summer/Fall 2024. All courses will be aimed primarily at advanced-level undergraduate and graduate students but, as always, are open to more senior researchers as well. Nonlocal student members of DMG will be eligible for travel support to the amount of 100€. Further information can be found at <https://www.dmg-home.org/aktuelles/doktorandenkurse/>. Please mark your calendars:

**In situ Analysis of Isotopes and Trace Elements by Femtosecond Laser Ablation ICP-MS**, Institute for Mineralogy, Leibniz University Hannover, Ingo Horn, Marina Lazarov, Martin Oeser, Stefan Weyer, September 16–20, 2024 ([s.weyer@mineralogie.uni-hannover.de](mailto:s.weyer@mineralogie.uni-hannover.de))

**Application of Diffusion Studies to the Determination of Timescales in Geochemistry and Petrology**, Institute for Geology, Mineralogy and Geophysics, Ruhr University Bochum, Sumit Chakraborty, Ralf Dohmen, October 21–25, 2024 ([sumit.chakraborty@rub.de](mailto:sumit.chakraborty@rub.de))

## ANNUAL DMG MEETING 2024 – YOUNG SCIENTIST AWARD

At the annual meeting of the German Mineralogical Society (DMG), the **Young Scientist Award** is given for the best oral and poster presentations by a student. Student DMG members may apply when submitting an abstract for the 102<sup>nd</sup> annual DMG meeting in 2024, which is enclosed in the 4<sup>th</sup> European Mineralogical Conference *emc<sup>2024</sup>* (<https://emc-2024.org/>). The application form can be downloaded from [https://www.dmg-home.org/fileadmin/user\\_upload/Form-Nachwuchs-Preis\\_v2024.pdf](https://www.dmg-home.org/fileadmin/user_upload/Form-Nachwuchs-Preis_v2024.pdf).