

German Mineralogical Society

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### **UNITED WE STAND**

#### Inauguration of the DVGeo Office in Berlin

A reception celebrating the establishment of the new Berlin office of the Dachverband der Geowissenschaften (DVGeo), the umbrella organization for the Earth sciences in Germany, took place 1 February 2018. The new office is shared with the Berufsverband Deutscher Geowissenschaftler (BDG), the German professional organization of geologists, geophysicists,



and mineralogists, which has members employed in industry, government, and academia. Moving in together allows both organizations to act in concert and to represent the Earth sciences in unity to the outside world – true to the slogan "united we stand!"

Over 140 participants from academia, industry, politics, government agencies, and stakeholder organizations attended the reception, which was held in the central, dinosaur-boasting, atrium of the Museum für Naturkunde Berlin (MfN). The diversity of the Earth sciences was illustrated in several keynote talks given by the presidents of the four founding members of the DVGeo: the German Geological Society (DGGV), the German Geophysical Society (DGG), the German Paleontological Society (PalGes), and the German Mineralogical Society (DMG), as well as by representatives of BDG and MfN. Reiner Klemd, in his role as DMG President, discussed the importance of mineralogy in the raw-material needs of modern industrial nations, and stressed the need for a resource-focused university education in mineralogy to train students in how to face potential future raw materials scarcity.



DMG President Reimer Klemd illustrates what mineralogists can contribute to future challenges regarding modern industrial nations' demand for high-technology raw materials. PHOTO: H.-R. KNÖFLER, MUSEUM FÜR NATURKUNDE BERLIN

This, and other topics, were discussed by the participants long into the night. The relevance and importance of the Earth sciences for society in general, and for future geopolitical challenges in particular, crystallised during the evening. The Berlin reception went down well and encouraged the DVGeo and the BDG to pursue their joint efforts to increase Earth science literacy among the public and to represent a unified front for the Earth sciences to the outside world.

Christopher Hamann (Berlin)



GOOD meeting attendees at the GeoZentrum Nordbayern. PHOTO: PATRICK BOBEK

#### 3<sup>rd</sup> GEOLOGY OF ORE DEPOSITS (GOOD) MEETING

28 February–3 March 2018; FAU Erlangen Nuremberg, GeoZentrum Nordbayern

Following the success of the first two Geology of Ore Deposits (GOOD) meetings in Freiberg and Hannover (both Germany), the 2018 meeting at the GeoZentrum Nordbayern featured an impressive array of talks and poster presentations that covered all aspects of mineral-deposit research, from hyperspectral remote sensing to detailed fluid-inclusion studies. Masters and PhD students, as well as early career researchers, presented their cutting-edge research. The quality of the presentations was exceptional throughout. DMG President Reiner Klemd gave the welcoming address; keynote talks were given by Andreas Audetat (University of Bayreuth) and Thomas Angerer (University of Innsbruck,

Austria), Anne Papenfuß won the prize for the best student speaker, and Stefan Schaefer won for his poster presentation. Both winners received book prizes sponsored by Schweizerbart Borntraeger. The meeting's field trip was to the historic mines at Kupferberg and Gleissinger Fels, and both were well attended. We thank Stefan Hoehn for giving an insightful presentation on the complex formation history of the Cu-mineralization at Kupferberg. The meeting was organized by Patrick Nadoll (FAU GeoZentrum Nordbayern) and his team of student helpers: Patrick Bobek, Adrian von Heydebrand, Uli



GOOD participants visit the historic underground mine at Gleissinger Fels. Photo: Patrick NADOLL

Fliehr, Matti Kern, Felix Mackowiak and Lukas Tremel. The organizers would like to thank the Deutsche Mineralogische Gesellschaft (DMG) and publisher Schweizerbart Borntraeger for their support. The fourth GOOD meeting will be held at the Jacobs University in Bremen in 2019. We look forward to seeing you all there.

Patrick Nadoll (Erlangen)

#### **SECTION MEETING**

## CPKM/AMITU workshop 2018, 28 February-2 March 2018

As in previous years, the annual joint workshop of two DMG sections – the Chemistry, Physics and Crystallography (CPKM) section and the Applied Mineralogy in Technology and the Environment (AMiTU) section – was held in Bad Windsheim (Northern Bavaria) at the end of February.

Altogether, 20 presentations covered a wide range of themes in applied mineralogy and crystallography, including archaeometric studies that used X-ray diffraction, in situ and real-time hyperspectral Raman imaging of phase transformations during thermal annealing of ceramic materials, and studies on early stages of corrosion in hot, aggressive



CPKM/AMiTU 2018: Group photo in front of the Hotel am Kurpark, Bad Windsheim

environments to name a few. The plenary lecture was by Dr. Melanie Keuper (3D Flow4Industry GmbH & Co. KG) with the title, "New Ways for a Mineralogist – High-Tech Ceramics and 3D Printing." Young scientists, in particular, took the opportunity to present their graduate or undergraduate research and to discuss scientific questions with senior researchers in their field.

Our thanks go to Christoph Berthold (University of Tübingen) and Helmut Klein (University of Göttingen) for a pleasant and perfectly organized workshop. Reservations for the next meeting, which will be in Bad Windsheim again (27 February–1 March 2019), can be sent to C. Berthold.

Hieronymus Hölzig (Leipzig)

### **DMG SHORT COURSES 2018**

#### Fall courses open for enrollment

Three DMG short courses (all are based in Germany; see list below) that will run during autumn 2018 are now open for enrollment. All courses are aimed primarily at advanced-level undergraduate and graduate students but are always open to more senior researchers as well. Non-local student members of DMG are eligible for travel support to the amount of  $\notin$ 50. Further information about the courses can be obtained at www.dmg-home.org/aktuelles/doktorandenkurse.

K5 **Application of Diffusion Studies to the Determination of Timescales in Geochemistry and Petrology**. Joint MSA–DMG shortcourse, Prof. Sumit Chakraborty, Dr. Ralf Dohmen, 1–5 October 2018 (sumit.chakraborty@rub.de).

K6 In situ Analysis of Isotopes and Trace Elements by Femtosecond Laser-Ablation ICP-MS [In situ-Analyse von Isotopen und Spurenelementen mit (MC-) ICP-MS gekoppelt mit Femtosekunden-Laserablation]. Institute for Mineralogy, Leibniz University Hannover, organized by Prof. Dr. Stefan Weyer and others, 8–12 October 2018 (s.weyer@mineralogie.uni-hannover.de).

K7 **Introduction to Secondary Ion Mass Spectrometry in the Earth Sciences**. Helmholtz Centre Potsdam – GFZ German Research Centre for Geosciences, Dr. Michael Wiedenbeck, 3–7 December 2018 (sims.gfz-potsdam.de/short-course/; michael.wiedenbeck@gfz-potsdam. de).

#### **SHORT COURSE REPORTS**

# High-Pressure Experimental Techniques and Applications to the Earth's Interior

Bayerisches Geoinstitut, Universität Bayreuth, 19–23 February 2018

The Bayerisches Geoinstitut invited interested students, doctoral candidates, and scientists to the high-pressure short course in Bayreuth. The 5-day course took place 19–23 February 2018 and was attended by 29 participants from 6 different countries and a total of 16 different institutes. The purpose was to get an insight into various experimental methods of mineralogy, geochemistry, and geophysics to understand better the composition, structure, and dynamics of the Earth's interior. For those participants who wanted to receive two ECTS credits for the course, a one-hour written exam was offered afterwards.



Participants and lecturers at the DMG's 2018 high-pressure experimental techniques short course at BGI

Each of the five days day was divided into a morning of theory, concerning the various high-pressure techniques and analytical methods (e.g. spectroscopy or electron microscopy), and an afternoon of practical exercises. Participants not only examined the results of previous experiments, they also carried out small experiments or analysed materials on their own. For example, thermocouples or capsules were independently produced in the laboratory course for the multi-anvil press. Participants also received insight into how to evaluate an experiment. The results of LA–ICP–MS analysis, for example, were examined directly afterwards.

A constructive exchange among the course participants and the institute members was promoted and was initiated by the organizers throughout the course. Additionally, all participants were invited to a guided tour of the Bayreuth Catacombs, followed by a dinner in a traditional Franconian restaurant.

After a very informative week, the director of the Bayerisches Geoinstitut, Dan Frost, said goodbye to all participants. The course was a success. So, we say a warm "Thank you very much" to organizers D. Frost, F. Heidelbach, L. Kison-Herzing, and to all the associated helpers.

> Jennifer Primocerio (Bochum) Anastasia Zemlitskaya (Mainz)

# Exploration Geology: Ore Deposit Geology, Alteration Geochemistry and Ore Interpretation

Albert-Ludwigs-Universität Freiburg, 19-22 March 2018

The short course on exploration geology was organized by the Mineralogy and Petrology group at the University of Freiburg (Germany) and was attended by 27 participants from 18 institutes and six countries. The short course offered both theoretical background and practical training in exploration geology, whole-rock and alteration geochemistry, and ore interpretation. Practical training included ore microscopy and geochemical data processing, the latter having a special focus on visualization and modelling software ioGAS and GCDKit. Case studies from exploration projects in Scandinavia and Greenland showed that diverse geological situations demand a range of geochemical tools to be employed. A poster session gave the opportunity for participants to present and discuss their own projects. The short course was concluded by a one-day field trip to mine sites in the Schwarzwald and Kaiserstuhl.



Participants of the Exploration Geology short course. PHOTO: K. SCHLÖGLOVÁ

Course instructors were Professor David Dolejš, Dr. Kateřina Schlöglová, Dr. Malte Junge and Dr. Denis Schlatter. In addition, a plenary lecture by Professor Hartwig Frimmel (University of Würzburg) entitled "How Gold Became Concentrated to Ore Grade in the Earth's Crust" was sponsored by the SGA (Society for Geology Applied to Mineral Deposits). We appreciate partial support from the DMG and SGA.