

NMR SHORT COURSE 2017



Dr. Michael Fechtelkord (Ruhr University Bochum, Germany) and participants of the 17th nuclear magnetic resonance DMG short course attempting to hide the institute's Bruker ASX 400.

The 17th DMG short course on solid-state nuclear magnetic resonance (NMR) spectroscopy was held 17–20 May 2017 at the Institute of Geology, Mineralogy and Geophysics of the Ruhr University Bochum (Germany). Spectroscopic NMR investigations can be a valuable tool in mineralogy and material sciences. This was perfectly demonstrated by Dr. Michael Fechtelkord to 12 students who came from different parts of Germany. The students were introduced to the secrets of ¹H spin-lattice relaxation, magnetic dipolar interactions, the magic-angle spinning (MAS) method, 2-D multi-pulse techniques, cross-polarization MAS (CPMAS), double rotation (DOR), multiple quantum MAS (MQMAS), and satellite transition spectroscopy (SATRAS).

DMG SECTION MEETING: GEOCHEMISTRY AND PETROLOGY/PETROPHYSICS



Due to the trigonal tourmaline arrows no participant got lost.
PHOTO: R. MILKE

This year's joint meeting of the DMG sections Petrology/Petrophysics and Geochemistry was held 23–24 June 2017 at the Institute for Geological Sciences at Freie Universität Berlin (Germany). In attendance were 75 junior and senior participants, representing 16 different institutions. The local organizers, Ralf Milke and Timm John (Chairman of the Petrology/Petrophysics section), as well as Ronny Schönberg (Chairman of the Geochemistry section), provided a warm welcome and opened the first scientific session. Nine talks and more than 20 posters were on offer by post-docs and graduate and undergraduate students. The traditional evening barbecue was held in a relaxed atmosphere, which allowed for meeting old and new friends and for lively scientific discussions.

The second day of the program had 14 talks, including Ralf Milke's highly impressive presentation, "How Blind People Can Discriminate Between Minerals". Ralf Milke regularly offers guided tours for visually impaired people, showing them the Freie Universität's mineral collection. After a second poster session, the meeting concluded with the award for best talk going to Tobias Grützner (University of Münster,

Germany) for his presentation, "Fluorine in the Earth's Mantle Transition Zone – Experimental Results". The best poster was awarded to Paul Fugmann (University of Jena, Germany) for his presentation, "Petrography, Geochemistry and Age of the Lomati River Complex, Central Barberton Greenstone Belt, South Africa".

Some participants decided to continue their stay and participate in the *Lange Nacht der Wissenschaften [Long Night of the Sciences]*, where 70 scientific institutions in Berlin open their doors to the public.

The diverse range of topics presented at the 2017 meeting of the DMG's Petrology/Petrophysics and Geochemistry sections allowed participants to look 'outside the box' and 'inside' to other interesting petrology and geochemistry topics. Thanks go to the organizers for a great meeting! Watch dmg-home.org for next year's *Sektionstreffen in Göttingen 2018*.

Jennifer Günther, Anastasia Zemlitskaya (Mainz)



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- ...the processes that made Earth a habitable planet early in Earth's history
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- ...environmental change through Earth's history, at present, and projected into the future
- ...risks to and resources for our society

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- Sedimentary systems
- Neotectonics, earthquakes, and natural hazards
- Mineralogy, material science of the Earth
- Groundwater resources and climate change
- Earth materials, resources, and waste management
- Fossil ecosystems
- Fossilization and the quality of the fossil record
- Applied and industrial micropalaeontology
- Applied geophysics
- 3-D applications in the geosciences
- Outreach, education, and the societal relevance of geosciences

We are looking forward to seeing you in Bonn in late summer 2018!

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