



Announcement of a joint DMG – MSA event

We would like to draw your attention to a short course on the

Application of diffusion studies to the determination of timescales in geochemistry and petrology

to be held at the

Institut für Geologie, Mineralogie und Geophysik; Ruhr Universität Bochum, Germany

**24 - 28 August 2015
(immediately after the Goldschmidt Conference in Prague)**

This is a joint *Deutsche Mineralogische Gesellschaft (DMG)*, The German Mineralogical Society) Short Course and *Mineralogical Society of America (MSA)* Workshop.

Bochum is located at the heart of Europe. It is therefore very conveniently accessible by road, train and air (with direct flights from Prague, and scenic train connections as well). The surrounding region, which includes Cologne and Dusseldorf, is densely settled and boasts a world-renowned cultural infrastructure.

Content: That course is directed at petrologists, geochemists and planetary scientists interested in retrieving information on timescales of processes from their rocks. Such information might include the residence times of magmas in their reservoirs, the cooling- or exhumation rates of rocks, the duration of terrestrial or extra-terrestrial (e.g. parent bodies of meteorites) metamorphism, the duration of fluid flow (e.g. metasomatism by fluids / melts in the crust or mantle), and the evaluation and application of closure temperatures. Our focus will be high temperature processes. Therefore "high temperature Thermochronometry" or "Geospeedometry" are related keywords that may describe the course contents.

Goals and expected profile of participants: Previous experience with numerical modeling or programming is not required, but an interest in learning the rudiments of these tools is. One of the objectives of the course, however, is to demonstrate how much it is possible to accomplish without any or with very little programming. The basic information on diffusion that is required for carrying out such calculations will be provided, but this is not a course designed to cover all aspects of diffusion in minerals and melts.

In addition to instruction via lectures, a major component of the course will be hands on training in small groups to enable participants to "do your own" modeling. Participants will be expected to bring their own laptop computers. All instruction and exercises will be in English.

The course material will be designed for graduate students or post-docs starting off in the fields mentioned above, but participants with all levels of experience and expertise are of course welcome. To maintain the hands-on nature of the course, we expect to restrict the number of participants to around **30, to be given out on a first come first serve basis**. Student members of DMG and MSA will be given priority for registration if demand for a slot becomes a concern. Interested participants can express intention to register by sending an email containing a brief paragraph describing their background / reasons for wanting to participate **after January 15, 2015** to: Ralf.Dohmen@rub.de

Instructors: Instruction will mostly be provided by the staff, post-docs and graduate students at the Ruhr Universitaet Bochum. We hope to involve some external experts as well on particular topics.

Registration and Fees

There are NO course fees as such. However, we will charge a nominal fee of **50 Euros (60 dollars)** to cover expenses for refreshments during the course and for some course materials. Upon receiving an acknowledgement from Ralf that a place is available, this amount should be paid within 20 days to book a place. Details will be provided later by email / at the short course website.

Further Information and Web: More details on course content and information on details of travel, accommodation etc. and other updates will be provided in a Short course webpage to be opened shortly under

<http://www.gmg.ruhr-uni-bochum.de/petrologie/>

General enquiries: *Sumit Chakraborty* (Sumit.Chakraborty@rub.de) or *Ralf Dohmen* (Ralf.Dohmen@rub.de). Information on non-technical matters can be obtained from the departmental Secretary's office as well: *Agnes Otto* (office-mineralogie@rub.de)