



Summer School 2015

Ocean crust processes: magma, faults, fluxes, and life

**31 August – 11 September 2015,
Bremen, Germany**

Invited lecturers:

M. Andreani (University of Lyon)
W. Bach (MARUM, Bremen)
D. Brunelli (University of Modena)
C. Devey (GEOMAR, Kiel)
G. Früh-Green (ETH Zurich)
C. Garrido (University of Granada)
B. Glazer (University of Hawaii)
B. Ildefonse (University of Montpellier)
F. Klein (WHOI, USA)
B. Menez (University of Paris)
A. Morris (University of Plymouth)
S. Petersen (GEOMAR, Kiel)
U. Röhl (MARUM, Bremen)
T. Schroeder (Bennington, USA)
D. Teagle (University of Southampton)
R. Tribuzio (University of Pisa) and others....

Venue:

MARUM – Center for Marine
Environmental Sciences



with the

IODP Bremen Core Repository



University of Bremen
Germany

The Topic

Mid-ocean ridges are important Earth Connections, where much of the exchange of heat and matter between the lithosphere and the oceans takes place. The formation and structure of ocean crust and the rates and pathways of interaction with the oceans depend on spreading and magma supply rates. Oceanic core complexes are expressions of a major mode of crustal accretion at slow-spreading ridges, where upper mantle rocks are exhumed along long-lived, low-angle detachment faults. Ocean drilling of these complexes offers a unique opportunity to access lithologies that were initially emplaced at the base of the lithosphere. Serpentinization reactions in these environments support unique ecosystems in the deep-sea and within the crust.

The School

This summer school will combine lab exercises on IODP-style shipboard methodologies ("**virtual ship**") as well as interactive lectures by world-leading scientists in the field of mid-ocean ridge research. Participation will prepare you for future involvement in IODP and for research work on mid-ocean ridge processes. The summer school will take advantage of the unique and integrated facilities offered by the **IODP Bremen Core Repository** and the **MARUM laboratories**.

Registration

To apply, please send your application (Letter of motivation, CV, registration form and one letter of support, combined into a single PDF) to Jutta Bülten in the GLOMAR office (jbuelten@marum.de). The registration form can be found on the webpage of the summer school (see below). A total of 30 participants can be accepted. The course fee is **€150**. Travel, accommodation and meals must be covered by the participants. The **application deadline** is **30 April 2015**.

Scholarships

ECORD provides scholarships **for students from ECORD member countries** to attend ECORD summer schools. **The deadline to apply for an ECORD Scholarship** will be announced on the webpage of the summer school (see below).



http://www.marum.de/en/ECORD_Summer_School_2015.html