

Sub-seafloor fluid transport and gas hydrate dynamics



3 – 14 September 2018, Bremen, Germany

Lecturers:

Wolfgang Bach (Bremen, Germany)
 Christian Berndt (Kiel, Germany)
 Gerhard Bohrmann (Bremen, Germany)
 Mathias Haeckel (Kiel, Germany)
 Kai-Uwe Hinrichs (Bremen, Germany)
 Ian Macdonald (Talahassee, USA)
 Thomas Pape (Bremen, Germany)
 Michael Riedel (Kiel, Germany)
 Ursula Röhl (Bremen, Germany)
 Miriam Römer (Bremen, Germany)
 Rüdiger Stein (Bremerhaven, Germany)
 Marta Torres (Corvallis, USA)
 Michael Whiticar (Victoria, Canada)
 and others ...

Venue:

MARUM – Center for Marine Environmental Sciences



with the

IODP Bremen Core Repository



University of Bremen
 Germany

The Topic

Seawater circulates through systems of faults, fractures, and other permeable conduits in magmatic and sedimentary rocks and redistributes heat and solutes by advection. Fluids seeping through the ocean crust in various continental margin settings transport hydrocarbons and concentrate them at migration barriers forming natural gas hydrates within the gas hydrate stability zone. ODP and IODP has contributed to an amazing turn-around in the perception of marine gas hydrates. From avoiding gas hydrates, due to safety issues in past, the program changed its attitude completely and is now actively drilling for them. Research on natural methane hydrates in seafloor settings and its dynamics during climate changes is a topic of worldwide interest.

The School

This summer school will combine lab exercises on IODP-style shipboard methodologies ("virtual ship"), a one-day excursion with R/V ALKOR as well as interactive lectures by world-leading scientists in the field of fluid flow and gas hydrates. Participation will prepare you for future research work within IODP. The summer school will take advantage of the unique and integrated facilities offered by the IODP Bremen Core Repository and MARUM laboratories.

Application

To apply, please visit the course web page given 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 4 May 2018**.

Scholarships

ECORD provides scholarships for students to attend ECORD summer schools. Applications from students of non-ECORD countries are also accepted. The **deadline** for applications to get an **ECORD Scholarship** will be announced on the webpage of the summer school (see below).



<http://www.marum.de/en/ECORD-Summer-Schools.html>