

## Sub-seafloor fluid transport and gas hydrate dynamics



**3 – 14 September 2018, Bremen, Germany**

### Lecturers:

Wolfgang Bach (Bremen, Germany)  
 Christian Berndt (Kiel, Germany)  
 Mathias Haeckel (Kiel, Germany)  
 Kai-Uwe Hinrichs (Bremen, Germany)  
 Ian Macdonald (Talahassee, USA)  
 Thomas Pape (Bremen, Germany)  
 Michael Riedel (Bremen, 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 the crust and redistributes heat and solutes by advection. Due to this process, seawater alters the host rocks, influences the chemical composition of the oceans and forms mineral deposits. Furthermore, water carried by sediments and rocks of the crust into subduction zones affects the strength of the rocks, lubricates the seismically active zones, and influences the magmatic processes of the arc volcanoes. Fluids seeping through sediments in various continental margin settings transport hydrocarbons and concentrate them at migration barriers forming natural reservoirs, often as gas hydrates that are seen as one of the largest reservoirs of organic carbon on Earth.

## 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 **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>