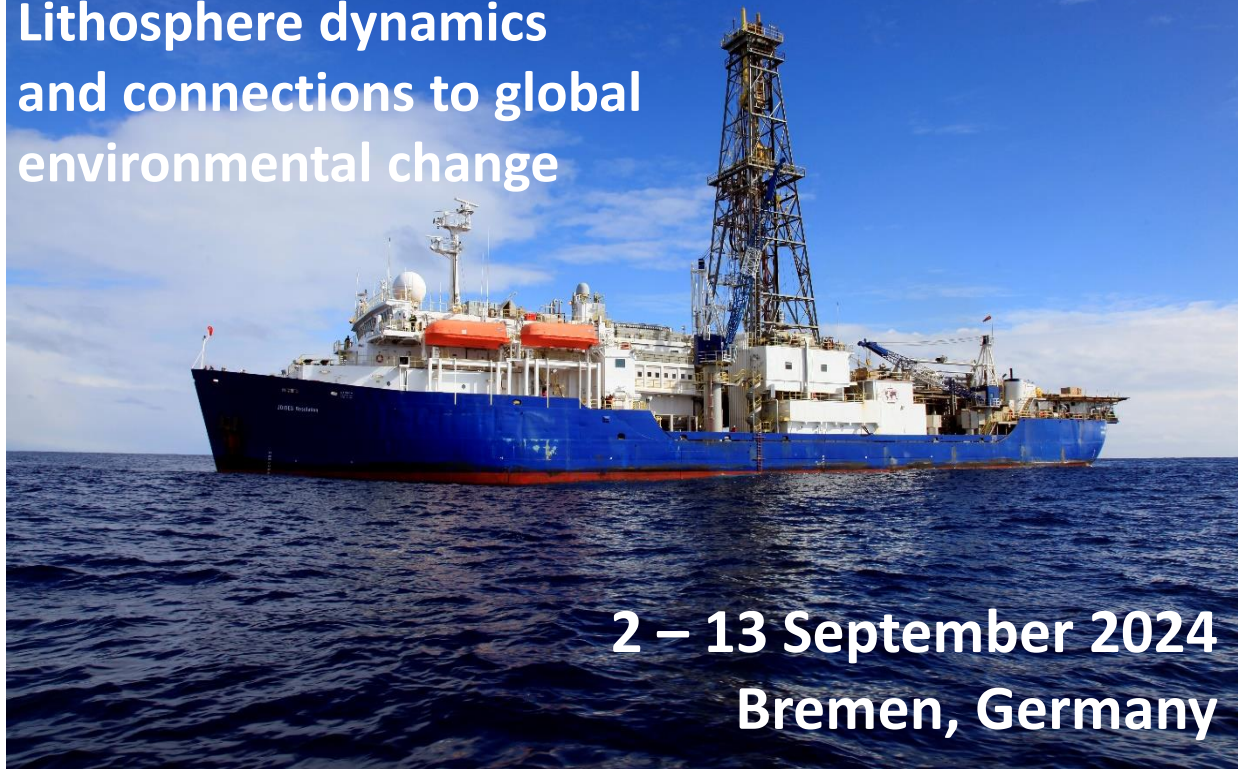


## From ridges to flanks to margins – Lithosphere dynamics and connections to global environmental change



**2 – 13 September 2024**  
**Bremen, Germany**

Potential lecturers (some not asked yet):

W. Bach (MARUM, Bremen)  
C. Berndt (GEOMAR, Kiel)  
A. Briais (CNRS, Brest)  
M. Cannat (IPGP, Paris)  
J. Escartin (CNRS, Paris)  
V. Heuer (MARUM, Bremen)  
K. Hoernle (GEOMAR, Kiel)  
M. Ikari (MARUM, Bremen)  
F. Klein (WHOI)  
A. Kopf (MARUM, Bremen)  
A. McCaig (Univ. of Leeds)  
J. Millet (VBPR, Oslo)  
M. Perez-Gussinye (MARUM, Bremen)  
U. Röhl (MARUM, Bremen)  
D. Teagle (NOC, Southampton)  
and others ...

**Venue:**

MARUM – Center for Marine  
Environmental Sciences



at the  
BCR -

IODP Bremen Core Repository



University of Bremen  
Germany

## The Topic

The formation and maturation of oceanic crust plays a vital role in Earth's geochemical cycles. Key behind this is the intense exchange between seawater and crust throughout much of its lifetime. In the initial stage of ocean basin formation, the breakup of continental crust is accommodated by excessive or sparse magmatism causing widely variable ocean margin processes, ranging from intense magma-sediment interaction to widespread serpentinization of exhumed lithospheric mantle. The related water-rock interactions are incompletely understood but hold promise to help understand abiotic processes that may have turned the planet habitable billions of years ago. Drilling the seafloor reveals a rich archive of ocean basin evolution and provides valuable perspectives on how geodynamic components, seawater circulation, ocean chemistry and climate are interconnected. Shedding light on our current knowledge about some of these Deep Earth connections is the main goal of the ECORD Summer School in 2024.

## The School

This summer school will combine lab exercises on IODP-style shipboard methodologies (“**shipboard simulation**”) as well as interactive lectures by world-leading scientists in the field of lithosphere dynamics. Participation will prepare you for future scientific drilling projects at sea or on land as well as for research on lithosphere processes. The summer school will take advantage of the unique and integrated core-laboratories facilities offered by the **IODP Bremen Core Repository** and the **MARUM**.

## Registration

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 **31 May 2024**.

## Scholarships

ECORD provides scholarships for students from **ECORD member countries** to attend ECORD summer schools. Applicants from other IODP member countries may check with their national IODP offices regarding potential support. Applications should be sent to the ESSAC Office. Please, see how to apply for an ECORD Scholarship following this link under ‘Get a Scholarship’: <https://www.ecord.org/education/>

Photo credit: Volker Diekamp, MARUM und IODP



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