

DriMMLOC

Drilling the Mantle, Moho and Lower Oceanic Crust
Shanghai/China
May 7-9, 2020

Dear colleagues,

we are happy to announce an upcoming workshop **DriMMLOC Drilling the Mantle, Moho and Lower Oceanic Crust**, May 7-9th, 2020, Tongji University, Shanghai (China). The workshop will present the latest developments across a broad spectrum of earth science disciplines, including tectonics, geophysics, petrology and biogeochemistry to address the main question of *how do the styles of formation of the oceanic lithosphere vary with spreading rate and magma supply, and how do these influence hydrothermal alteration and microbial activity.*

Hosted by the State Key Laboratory for Marine Geology of the Tongji University and IODP-China, DriMMLOC is co-funded by the US Science Support Program, J-DESC and ECORD.

The **DRIMMLOC** workshop will include (i) a series of presentations to give an extensive overview of our current knowledge of the tectonics, geophysics, geochemistry, and biogeochemistry of the ocean crust and mantle at ocean ridges; (ii) discussions of the relevant active IODP proposals; (iii) formation of thematic working groups and (iv) formulation of new proposals and drilling strategies.

Our main objectives are:

(i) Create a framework working document outlining how to address the nature of the lower ocean crust, Moho, and Mantle by ocean drilling over the next two decades.

(ii) Create a cooperative working multidisciplinary team of experts to understand the geological and biogeochemical processes in the deep oceanic lithosphere.

(iii) Confirm the leadership for ocean lithosphere hard rock drilling, that would continue to monitor and promote its' progress.

(iv) Integrate the wider Chinese scientific community into the scientific planning process.

(v) Define the hard-rock drilling technology required for IODP science plans beyond 2023.

(vi) Revise/resubmit new or existing IODP proposals.

The scientific committee will produce a workshop report targeting the specifically national IODP committees and funding agencies, the SEP and facilities boards for the Joides Resolution, Chikyū, and the Chinese drill ship once one is formed. **This workshop will develop a common strategy for the next decades of strategic direction in ocean lithosphere drilling.**

IODP-China and the Tongji University looks forward to welcoming you to this unique forum for presenting your results, and sharing new ideas on present or future IODP proposals.

The registration will be active and start at our website (<http://www.iodp-china.org/DriMMLOC>) from January 20, 2020. You are welcome to contact us at iodp_china@tongji.edu.cn or your local organiser if there are any questions.

We are looking forward to see you in Shanghai in this May.

The Organizing Committee,

Alessio Sanfilippo, Henry J.B. Dick, Huaiyang Zhou, Katsuyoshi Michibayashi, Marguerite Godard & Chuan-Zhou Liu