

Dear colleagues,

We are happy to announce the upcoming **DriMMLOC** workshop:

Drilling the Mantle, Moho and Lower Oceanic Crust

May 7-9th, 2020, Tongji University, Shanghai (China).

The workshop will present and discuss the latest developments across a broad spectrum of earth science disciplines, including tectonics, geophysics, petrology and biogeochemistry to address the question:

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?

The workshop includes:

- i) Organizing the community interested in deep crustal and mantle drilling to create a common vision and collaborative approach to future drilling in the context of a Global Circum-Navigation Drilling Program as envisioned by the IODP Planning Structure.
- ii) Provide an overview of the current status and knowledge of the lower ocean crust and mantle.
- iii) Summarize the pending and approved proposals for deep crustal and mantle drilling at the Science Evaluation Panel and the IODP Facility Boards.
- iv) Review and provide an update on the results of the 2017 JRFB Engineering Workshop on Deep Crustal Drilling and Engineering (<http://www.iodp.org/deep-crustal-drilling-engineering-working-group/file>).
- v) Have an open discussion of what additional drilling is needed to address the workshop theme.
- vi) Create a working document as a basis for how to address our main question by ocean drilling in the twenty-year time frame envisioned by the IODP Planning Structure as input into that process, and for the broader scientific drilling community.
- vii) Encourage and establish new proponent groups to write new proposals, and encourage new leadership from early and mid-career scientists.

Note that the workshop is specifically not a forum for evaluating or prioritizing existing proposals, which is the business of the IODP Science Evaluation Panel

Product:

The scientific committee will produce a **workshop report** targeting specifically national IODP committees and funding agencies, the SEP and facilities boards for the JOIDES Resolution, Chikyu, and the MSP. Members of this committee will be selected prior to and during the workshop, and the final report will be issued after workshop participant and community input are received.

Travel Support:

There is a limited amount of travel support available, and while all participants may apply to the principle convenor (AS), priority for early career scientists and graduate students will be given.

Registration:

Registration will be active and start at our websites (<http://www.iodp-china.org/DriMMLOC>) from January 20, 2020.

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

We look forward to seeing you in Shanghai

Organizing Committee: Alessio SanFilippo, Henry J.B. Dick, Huaiyang Zhou, Katsuyoshi Michibayashi, Marguerite Godard, and Chuan-Zhou Liu.

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