

Workshop on Environmental considerations of deep-sea mining

Oslo, 11 March 2020

Title: Environmental considerations of deep-sea mining within Norwegian jurisdiction

Goal: The workshop will present the present knowledge on environmental impacts from deep-sea mining, with a focus on mining seafloor massive sulphides (SMS), and discuss how this knowledge (or lack of) needs to be integrated in the development of this emerging industry.

Date: 11 March 2020

Venue: Forskingsparken (Oslo Science Park), Gaustadalléen 21, 0349 Oslo, Norway.

PROGRAMME

08:30 Welcome & introduction

09:00 Setting the scene: 20 min presentations from experts (draft titles)

- **Cindy Van Dover** (Duke Uni.): uniqueness of vent ecosystems.
- **Hans Tore Rapp** (UiB Dept. Biological Sciences): AMOR hydrothermal vents and their ecosystems.
- **Eva Ramirez-Llodra** (NIVA): ecology of the Mohns Treasure inactive site.
- **Norwegian Ministry of Energy and Petroleum:** the environmental component of the Norwegian Marine Minerals Act.
- **Luciana Genio** (ISA; on videolink): ISA Mining Code: Environmental Guidelines.

10:40 *Coffee*

11:00 Continue presentations

- **Kaja Lønne Fjærtøft** (Norwegian Environmental Agency): Nature diversity and pollution control, NEAs role in deep-sea mining
- **Arne Myhrvold** (Equinor): industry's expectations and challenges in relation to environmental issues.
- **Tom Arnbom** (WWF): Deep seabed mining risk to ocean health.

12:00 *Lunch*

13:00 Discussion

Each topic will be shortly introduced, and all participants will be given the chance to present 2-3 slides with their comments/thoughts/input for each topic. The discussion will be moderated.

- **Topic 1:** Main unknowns on the AMOR that need to be addressed for a robust management – Chairs: Cindy Van Dover & Eva Ramirez-Llodra

14:30 *Coffee*

- **Topic2:** What should be the next steps from authorities, industry, science and society to avoid serious harm from DSM? – Chairs Arne Myhrvold (Equinor) and Catherine Banet (UiO)
 - Ecosystem based management
 - Precautionary approach
 - EIA guidelines

16:00 End of meeting