

Preliminary Program

Day 1:

Introduction by the steering committee: Objectives of the workshop

Existing dataset/knowledge on the Rainbow massif and hydrothermal field

- Geology and hydrothermal signature of the massif:
M. Andreani (U. Lyon, France)
- Tectonics and seismic structure of the massif:
J.P. Canales (WHOI, USA)
- Magnetic properties of the massif and the active hydrothermal site:
F. Sztikar (Geomar, Germany)
- Hydrothermal mineralizations at the rainbow active site:
A.F. Marques (U. Bergen, Norway)
- Nature of fluids venting at Rainbow active site:
C. Konn (IFREMER, France)
- Other possible talks on the topic.

Lunch and poster session

Fluid-rock-microbe interactions in ultramafic systems:

- The long journey of carbon from mantle source to deep ecosystems:
D. Brunelli (U. Modena, Italy)
- Microbial ecosystems at ultramafic-hosted hydrothermal sites:
M. Schrenk (U. Michigan, USA)
- Other possible talks on the topic

Day 2:

Group discussions:

- Main open scientific questions on ultramafic hydrothermal systems.
- Addressing these questions at Rainbow.

Poster session and lunch

How drilling/monitoring can help

- Drilling the Atlantis Massif: similarities, differences, and complementarities with Rainbow: G. Fruh-Green (ETH, Switzerland)
- Other possible talks on the topic

Group discussions and Plenary Session

- Drilling at Rainbow: why, where and how?

Day 3:

Drilling technologies/long term monitoring in serpentinites/hot rocks, Environmental impacts

- Contribution from the Science Operations department (TAMU , USA)
- Other possible talks on the topic

Lunch

Group discussions and Plenary Session

- Wrap up on designing a drilling experiment at Rainbow
- Preparing the drilling proposal (restricted group)