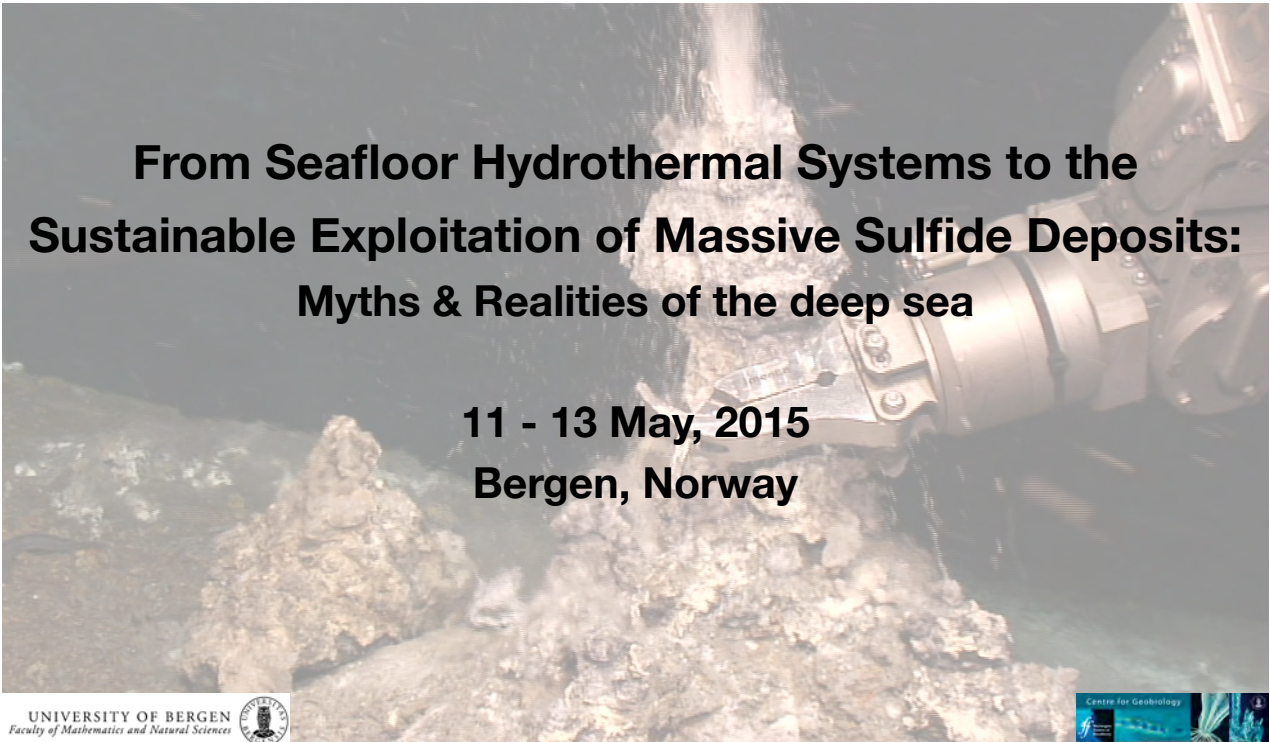

Workshop Program



From Seafloor Hydrothermal Systems to the Sustainable Exploitation of Massive Sulfide Deposits: Myths & Realities of the deep sea

11 - 13 May, 2015
Bergen, Norway

UNIVERSITY OF BERGEN
Faculty of Mathematics and Natural Sciences



Monday, 11th May 2015 [Student Center]

09.00 - 10.30 - Registration & Welcoming

Plenary Sessions [Open to Public / 30' + 10']

10.30 Larry Cathles (Cornell University, US)

"The importance of ocean resources in sustaining humanity over the next millennia, and the importance of starting now"

11.10 Cindy Van Dover (Duke University, US)

"Digging for gold in the deep sea: At what cost to the environment?"

12.00 - 13.00 Lunch [Participants only]

13.00 Steve Scott (University of Toronto, Can)

"Seafloor massive sulfide discoveries and future mining"

13.40 Robert Embley (NOAA, US)

"The NOAA Earth-Ocean Interaction Program: 30+ Years of Global Hydrothermal Research"

18.00 Welcome Reception & Ice-Breaker [Participants only]

Tuesday, 12th May 2015 [Scandic Bergen City Hotel]

Deep-sea Mineral Resources [20' + 10']

9.00 Sven Petersen (Geomar, Ger)

"Seafloor massive sulfides as a potential future metal resource: should we care?"

9.30 John Jamieson (Geomar, Ger)

"Uses and limitations of high-resolution AUV bathymetry for exploration and delineation of seafloor massive sulfide deposits"

10.00 Cornel de Ronde (GNS Science, NZ)

"What have we learnt about seafloor hydrothermal systems related to arc volcanoes?"

10.30 Coffee Break

11.00 Eoghan Reeves (MIT, US)

"Temporal evolution of magmatic-hydrothermal systems in the Manus Basin, Papua New Guinea"

11.30 Rolf Pedersen (CGB, No)

"Contrasting hydrothermal systems and seafloor mineralization at the Arctic Mid-Ocean Ridge"

12.00 Chris German (WHOI, US / Geomar, Ger)

"Where are the world's largest modern seafloor hydrothermal systems developing today?"

12.30 Discussion

13.00 Lunch

Global Policy & Regulators [20' + 10']

14.00 Manuel Pinto de Abreu (Sec. State of Sea, Government of Portugal)

14.30 Harald Brekke (NPD/LTC, No)

"Limits, boundaries, and the management of seabed resources"

15.00 Jonathan Lowe (Nautilus Minerals)

"A new frontier from the perspective of a developer"

15.30 Coffee Break

16.00 Jeff Ardron (IASS, Ger)

"Deep-Sea mining: what can be learnt from offshore oil and gas in Norway?"

16.30 Hannah Lily (Commonwealth Secretariat, UK)

"Small island states as seabed mining regulators: seafloor massive sulphides in the Pacific Islands region"

17.00 Kristina Gjerde (Wycliffe Management, US)

"The common heritage of mankind: benefit of present and future generations"

17.30 Discussion

19.30 Workshop Dinner

Wednesday, 13th May 2015 [Scandic Bergen City Hotel]

Diversity of Vent Ecosystems [20' + 10']

9.00 Ida Helene Steen (CGB, No)

"Exploitation of genetic resources from the Mid-Ocean Ridge Vent Fields in the Norwegian Industry"

9.30 Hans Tore Rapp (CGB, No)

"Exploration of the benthic macrofauna and ecosystems associated with hydrothermal vents at the Arctic mid-ocean ridge"

10.00 Ingunn Thorseth (CGB, No)

"Low-temperature water-rock-microbe interactions at hydrothermal vents"

10.30 Coffee Break

11.00 Ana Colaço (IMAR, U Azores, Pt)

"New challenges for the Azorean deep-sea ecosystems"

11.30 Malcolm Clark (NIWA, NZ)

"Ecological diversity and the management of environmental effects of SMS mining: experience from New Zealand"

12.00 Terje Thorsnes (NGU, No)

"Environmental seabed mapping on the Norwegian continental shelf, slope and rise in the MAREANO program - can lessons learnt be transferred to the deep sea?"

12.30 Discussion

13.00 Lunch

Environment Protection [20' + 10']

14.00 Yannick Beaudoin (GRID-Arendal, No)

"Mining with purpose?: what countries should consider in the 'blue frontier' "

14.30 Hiroyuki Yamamoto (JAMSTEC, JP)

"Protocol developments for environmental impact assessment of exploitation of deep-sea submarine resources"

15.00 Ryota Nakajima (JAMSTEC, JP)

"The influence of drill-induced disturbance to the benthic communities of deep-sea hydrothermal ecosystems"

15.30 Coffee Break

16.00 Andrew Sweetman (IRIS, No)

"Major effects of mine tailings on deep-sea ecosystems - the other major problem associated with deep sea mining"

16.30 Kanae Komaki (Kochi Univ., JP)

" A review of deep-sea current observations in hydrothermal areas and their impact on environmental assessments"

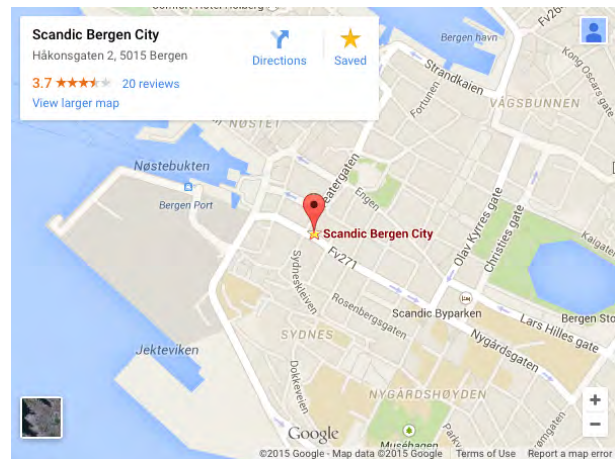
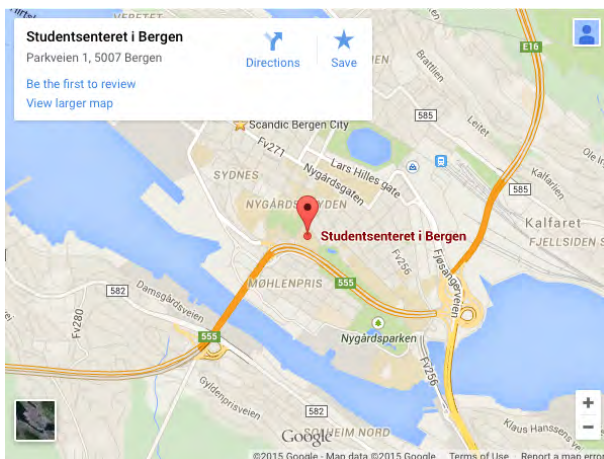
17.00 Discussion

17.30 Closing session

Venues



Bergen City Center



Day 1 - Student Center, Parkeveien 1, 5007 Bergen, Norway

Days 2 & 3 - Scandic Hotel City, Håkonsgaten 2, 5015 Bergen, Norway

Workshop Dinner - Øvregaten 50, Bergen, Norway

Useful Information

Bergen

Population: 277 100

Size: 445 Km²

May Weather

Average Low 6.9 °C / 44.4 °F

Average High 14.9 °C / 58.8 °F

Getting there

May is perhaps the best month to visit Bergen and its beautiful surroundings. Bergen is known as the “Gateway to the fjords of Norway” [www.visitbergen.com].

May is also high season, so please make travel arrangements as soon as possible.

[by air]

The Flesland Airport [BGO], close to Bergen’s city center, is an international airport with daily connections to the major european airports.

There is an airport bus direct to the city center [www.flybussen.no]. A taxi trip to the city center takes approximately 30-40 minutes.

[by train]

The Bergen Railway between Oslo and Bergen is considered one of the world’s most scenic train rides.

There are several daily departures between Oslo and Bergen. [www.nsb.no]

Eating Out

Zupperia (<http://zupperia.no>)

Bastant [<http://cafebastant.no>]

Kafé Spesial [<https://www.facebook.com/kafespesial>]

Pingvinen [<http://www.pingvinen.no>]

Inside Burger [<http://insiderock.no/inside-bergen-rock-cafe>]

Hotels

Hotel Scandic Bergen City [Workshop Venue]

Håkonsgaten 2 - 5010 Bergen

Tlf (+47) 55309080

e-mail: bergencity@scandichotels.com

www.scandichotels.no/Hotels/Norge/Bergen/Scandic-Bergen-City/

Hotel Basic Bergen

Håkonsgaten 27 - 5015 Bergen

Tlf (+47) 815 22742 (815 BASIC)

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