

Preliminary meeting agenda

DAY 1 (12.9.2018)

- 09:00 Welcome and introduction
- Presentation of Proposal 909
 - **Session 1:** Application of cosmogenic isotopes to interpret long-term weathering history
Keynote speaker: Paul Bierman (Univ. Vermont, US)
 - Discussion
- 12:00 Lunch
- 13:00
- **Session 2:** Linking the marine sediment archive to Greenland Ice Sheet variability
Keynote speaker: Joseph Stoner (Oregon State Univ., US)
 - Discussion
- 15:30 Working group break-out
- 16:30 Results from working groups
- 17:00 Drinks and snacks

DAY 2 (13.9.2018)

- 09:00 Start of Day 2
- **Session 3:** Developing a high-resolution late Cenozoic chronology in NE Baffin Bay
Keynote speaker: Chuang Xuan (Univ. Southampton, UK)
 - Discussion
- 12:00 Lunch
- 13:00
- **Session 4:** Drilling and logging on glaciated margins: Issues and challenges
Keynote speakers: Karsten Gohl (AWI, DE) and Sean Gulick (Univ. Texas, US)
 - Discussion
- 15:30 Working group break-out
- 16:30 Results from working groups
- 17:00 Drinks and snacks

DAY 3 (14.9.2018)

- 09:00 Start of Day 3
- Dedicated to proposal writing in working groups
- 14:00 Synthesis and outcome of workshop (organizers)
- 15:00 End of workshop

The workshop will be hosted by the Geological Survey of Denmark and Greenland in Copenhagen (www.geus.dk).

We expect a workshop size of about 35-40 participants and have secured support for accommodation for up to 25 ECORD participants. Additional travel costs are not supported.

We encourage applications from both early career and experienced scientist with an interest in the history of the Greenland Ice Sheet.

To register please provide a brief motivation and a one-page CV to pkn@geus.dk. Also indicate if you would like to give a presentation – oral or poster - for one of the sessions (10-15 min for orals).

The deadline for registration is 22th of June, 2018.

The Geological Survey of Denmark and Greenland (GEUS) is an independent and internationally oriented research institution within the Danish Ministry of Climate-, Energy and Building, and is part of Geocenter Denmark. GEUS also acts as consultant to public authorities and individuals within nature, climate, environment, energy and mineral resources.

GEUS is responsible for the scientific exploration of the geology in Denmark and Greenland including shelf areas.

GEUS maps, acquires and monitors data, informs the public about geological matters and is the national geological data centre.

MagellanPlus Workshop Copenhagen 12. – 14. September 2018



Greenland Ice Sheet evolution revealed by drilling a transect on the Baffin Bay - West Greenland margin

A key goal of the IODP science plan is to understand how ice sheets and sea level respond to a warming climate.

The potential for rapid retreat and thinning of the Greenland Ice Sheet with concomitant consequences for sea level rise has generated much attention recently, but the longer term history of glaciation and how it has affected, or been influenced by, the oceans and tectonic boundary conditions are poorly constrained.

The scope of proposal 909 is to retrieve a composite late Cenozoic sedimentary succession from Baffin Bay on the West Greenland margin that can elucidate the evolution and past dynamics of the Greenland Ice Sheet.

The main purpose of this workshop is to revise the current proposal 909-Full, NE Baffin Bay, to the Full-2 stage scheduled for early October 2018. This includes clarifying linkages between hypotheses and methods, improving the integrated experimental design, discuss operational issues and selection of alternate sites.

Moreover, the workshop will be used to discuss knowledge gaps and address technical challenges related to drilling on the Greenland glaciated margins.

