



AGENDA



Ice Drilling Program Subglacial Access Working Group SCIENCE PLANNING WORKSHOP

Sponsor and IDP Executive Director: Mary Albert, Dartmouth

IDP Subglacial Access Working Group Conveners:

Slawek Tulaczyk, University of California Santa Cruz

Jill Mikucki, University of Tennessee - Knoxville

Friday, March 29

Breakfast on your own (provided with room). Coffee for the meeting will appear at 10:00.

8:00 Meeting check-in: pre-load your presentations

Opening Remarks

8:30 Welcome and workshop charge Mary Albert

8:40 NSF Remarks Mike Jackson

8:50 Workshop goals & game plan Slawek Tulaczyk & Jill Mikucki

Short Overview Presentations: *What are the critical & compelling scientific questions?*

9:00 Kristin Poinar - ice sheet flow Greenland

9:20 Perry Spector - past extent of WAIS

9:40 Trista Vick-Majors - polar microbial ecology

10:00 Coffee Break

10:20 Jill Mikucki - subglacial ecosystems

11:40 John Goodge – East Antarctic lithosphere

11:00 Dale Winebrenner - ice melting probes

11:20 Pavel Talalay – Chinese / international subglacial exploration

11:40 Britney Schmidt – astrobiology issues

12:00 Explanation of the priority wall and breakout groups – Jill Mikucki

12:10 Lunch provided for registered participants

Short Topical Presentations: *Future subglacial drilling projects – what are your aims?*

13:00-14:00 short “pitches”

Allie Balter - North Greenland ice-margin sensitivity to interglacial climate from subglacial bedrock

Matt Siegfried - Building a network of subglacial observatories for the polar community

Molly Patterson - Recovery of Neogene and Quaternary marine sediments along the Siple Coast

Slawek Tulaczyk - Sensitivity of the East Antarctic ice sheet: subglacial Pliocene marine sediments

Perry Spector - Past ice thickness at Taylor Dome to deconvolve ice-core stable-isotope records

John Goodge - Exploration of the glacial bed and subglacial bedrock in central East Antarctica

14:00 **Priority Wall**

For the subglacial realms and for the coming decade, participants will post 5 specific key science questions on the Priority Wall pertaining to subglacial access drilling.



14:45 Breakout group discussion for each realm

What are the key priorities for subglacial research? What common science themes and common geographic footprints can we identify? Divide the whole group into break-out groups defined by realm or environment, for discussions and preparation of a group presentation.

16:30 Reports from break-out groups

Summary presentation from each break-out group from the major realms, identifying the key science questions driving the research, and identifying associated geographic areas of interest, timelines, and required drilling technologies.

17:15 Round-table discussion of goal, priorities, and compatibilities – common ground? Shared footprint our resources?

17:50 Summary of the day and action items for tomorrow

18:00 Meeting adjourned for the day

SATURDAY MARCH 30

Breakfast on your own (inc with room cost). Coffee for the meeting will appear at 10:00.

8:00 Meeting convenes

8:15 Recap of yesterday and goals for the morning – Slawek Tulaczyk & Jill Mikucki

8:30 Whole group discussion – questions and comments

9:00 Breakout Group work – Writing of a draft 3-page white paper for each breakout group. Each white paper should address: **WHAT** is the scientific issue the program will address? **WHY** is it important? **WHAT** evidence from within or beneath the ice sheet is needed to advance the state of knowledge? **WHERE** will you gather the field evidence? **WHEN** do you hope to conduct the field season? **HOW** will you gather the evidence? **WHO** contributed to this white paper?

10:00 Coffee break

10:15 Breakout Group summaries – report on each draft white paper (~10 mins each)

11:00 Whole group final discussion – open mic

11:45 Electronic submission of draft breakout group white papers to Jill, Slawek & Mary

11:50 Meeting summary and next steps – Mary Albert

12:00 Meeting adjourned