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2008 WAIS Workshop Agenda

AGENDA

Wednesday, October 8, 2008

4:00 to 6:00	Registration	Main Building
7:00 to 9:00	INFORMAL DINNER (Pizza and Drinks)	Cottage #1

Thursday, October 9, 2008

8:00	BREAKFAST	Main Building
8:00	Registration	Main Building
9:00	Welcomes and Introductions	Main Building
	<i>Topic #1: "Mirror, mirror, on the wall" - Looking at the past to see forward</i>	
9:30	History of the grounded ice sheet in the Ross Sea sector, Antarctica, at and since the LGM [Abstract]	Hall

9:45	Swinging Gate or Saloon doors: Do we need a new model of Ross Sea deglaciation? [Abstract] [PPT (4mb)]	Ackert
10:00	Late Quaternary fluctuation of Scott Glacier in response to grounding-line retreat in the Ross Sea Embayment [Abstract] [PPT (30mb)]	Bromley
10:15	Evidence for Rapid Surface Elevation Changes Around Siple Dome During the Deglacial [Abstract] [PPT (6mb)]	Taylor
10:30	BREAK (30 min.)	
11:00	Glaciology of the Bottleneck [Abstract] [PPT (3mb)]	Hughes
11:15	Rapid Early Holocene Sea-level Rise: Laurentide or Antarctic Ice? [Abstract] [PPT (18mb)]	Cronin
11:30	Mega-scale glacial lineations beneath Rutford Ice Stream [Abstract] [PDF (33mb)]	King
11:45	Poster Introductions (30 min.)	
12:15	LUNCH (90 min.)	
1:45	ENSO Modulation of West Antarctic Climate [Abstract]	Bromwich
2:00	Megapackets and Megapseudosynclines in East Antarctica [Abstract] [PPT 36mb]	Arcone
2:15	PANEL DISCUSSION (30 min.)	Plenary
2:45	BREAK (30 min.)	
	Topic #2: "ANDRILL" – A Neat Data Recovery Initiative to Learn Lots about WAIS	

3:15	Evidence of long- and short-term responses of the West Antarctic Ice Sheet during the Plio-Pleistocene and their implications: ANDRILL-McMurdo Ice Shelf Project [Abstract] [PPT (64mb)]	Powell
3:30	Plio-Pleistocene evolution and variability and the West Antarctic Ice Sheet from the ANDRILL, AND-1B geological record [Abstract] [PPT (6mb)]	Naish
3:45	WAIS collapse before GIS collapse! (~1 million years ago) [Abstract] [PPT (13mb)]	Scherer
4:00	BREAK (30 min.)	
4:30	Expanding provenance constraints on Ross Embayment till to assess LGM input of ice from the WAIS [Abstract] [PPT (31mb)]	Licht
4:45	Climatic forcing of WAIS mass balance on glacial-interglacial and longer timescales [Abstract] [PPT (18mb)]	DeConto
5:00	WAIS in ANDRILL future planning [Abstract] [PPT (7mb)]	Rack
5:15	PANEL DISCUSSION (30 min.)	Plenary
5:45	BREAK (15 min.)	
6:00	DINNER	Main Building
Friday, October 10, 2008		
9:00	Recent flow history of Pine Island Glacier [Abstract] [PPT (14mb)]	Scott

9:15	Dynamic glacier thinning in the Larsen B Embayment, Antarctica, 2002–2008 [Abstract] [PPT (21mb)]	Shuman
	Topic #3: "When you need a friend, I'll be there" – How my model can help your model	
9:30	Modeling West Antarctic Ice Sheet Growth and Retreat through the last 5 million years [Abstract] [PPT (43mb)]	Pollard
9:45	Modified Morland–MacAyeal model for ice–stream flow [Abstract] [PDF (1mb)]	Sargent
10:00	Toward a next-generation community ice sheet model: Progress and plans [Abstract] [PDF (2mb)]	Lipscomb
10:15	BREAK (45 min.)	
11:00	Cyberinfrastructure Opportunities for Antarctic Research [Abstract] [PPT (4mb)]	Lubin
11:15	Effect of Climate Cycling and Meltwater Plumbing on Ice–Sheet Grounding–Line Migration [Abstract] [PPT (7mb)]	Parizek
11:30	Hydrostatic equilibrium: a good assumption for the position of grounding lines? [Abstract] [PPT (3mb)]	Nowicki
11:45	Hydraulic Fracture along Glacier Beds by Turbulent Flow of Meltwater [Abstract] [PPT (7mb)]	Rice
12:00	Possible Mechanisms for Glacial Earthquakes [Abstract] [PPT (0.5mb)]	Tsai
12:15	LUNCH (90 min.)	
1:45	Stick/Slip Behavior of Ice Streams: Modeling Investigations [Abstract] [PDF (11mb)]	Sergienko

2:00	Simulation of glaciogenic tsunamis generated by the Wilkins Ice Shelf collapse of 2008 [Abstract] [PDF (55mb)]	MacAyeal
	Topic #4: "Older, yes, but wiser?" – How to improve predictions of future WAIS behavior	
2:15	Springing Forward: The Need for Viscoelastic Ice–Flow Modeling [Abstract] [PPT (0.3mb)]	Alley
2:30	How to improve predictions of future WAIS behavior [Abstract] [PDF (4mb)]	Fastook
2:45	Reaching for the Grail: Predicting Sea–Level Contributions from Dynamic Ice Sheets for 2100 before 2100 [Abstract] [PPT (0.2mb)]	Bindschadler
3:00	BREAK (45 min.)	
3:45	PANEL DISCUSSION (30 min.)	Plenary
4:15	Report of the FRISP/WAIS Workshop September 18–20, 2008	
4:30	GUEST FEEDBACK	
5:00	WAIS business	
5:30	Adjourn	
6:00	DINNER	Main Building
Posters		
	Megapackets and Megapseudosynclines in East Antarctica [Abstract]	Arcone

Initial Observations and Inferences from New Field Work on Pine Island Ice Shelf [Abstract] [PPT (6mb)]	Bindschadler
Characterization of Internal layers and Basal Conditions at the WAIS Divide Drill Site using a VHF Surface Based Radar [Abstract]	Blake
Reconstructing Holocene ice–marginal fluctuations with relict algal mats at Reedy and Scott Glaciers [Abstract]	Hall
Surface elevation changes at the front of the Ross Ice Shelf; Implications for basal melt [Abstract]	Horgan
Accumulation Patterns and Basal Conditions from Radar Observations Along the US–ITASE Traverse in East Antarctica [Abstract] [PPT (14mb)]	Jacobel
Surface melt magnitude retrieval over Ross Ice Shelf, Antarctica using coupled MODIS optical and thermal satellite measurements during the 2002–03 melt season [Abstract]	Karmosky
Evaluating a model of the current dynamical state of the Antarctic ice sheet using the Parallel Ice Sheet Model [Abstract]	Khroulev
Carlson Inlet – fast or slow? [Abstract]	King
How ice shelf morphology controls the longitudinal distribution of basal melting [Abstract] [PPT (3mb)]	Little
Modeling the spatial variation of ice–sheet radar attenuation [Abstract]	MacGregor
Mapping Internal Layers Using a 12–18 GHz Plane Wave Radar [Abstract]	O'Sadnick
A New Digital Elevation Model of the West Antarctic Ice Sheet from Altimetry and Images [Abstract]	Scambos
Possible Mechanisms for Glacial Earthquakes [Abstract]	Tsai
Transient subglacial water–flow [Abstract]	Winberry

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