2009 WAIS Workshop Agenda

Saturday, September 26, 2009		
4:00 to 6:00	Registration	Scott Hall
7:00 to 9:00	DINNER (Pizza and Drinks)	Dining Hall
Sunday, September 27, 2009		
8:00	BREAKFAST	Dining Hall
8:00	Registration	Scott Hall
9:00	Welcomes and Introductions	Scott Hall
	Topic #1: "Shelf-Life" – How intense is the interaction of the ocean with the ice shelves and what is expected in the future?	

9:30	Using oceanographic data to calculate the melt rate at an ice shelf's base [Abstract] [PPT]	Nicholls
9:45	Ocean circulation and water mass transformation beneath Filchner–Ronne Ice Shelf: results from a three dimensional ocean model [Abstract] [PPT]	Makinson
10:00	Modelling Amery Ice–Shelf/Ocean Interaction [Abstract] [PDF]	Galton–Fenzi
10:15	Overturning of the Antarctic Slope Front and ice shelf melting along the coast of Dronning Maud Land [Abstract] [PPT]	Nost
10:30	BREAK (30 min.)	
11:00	Bathymetry beneath Pine Island Glacier revealed by Autosub3 and implications for recent ice stream evolution [Abstract] [PPT]	Jenkins
11:15	Ocean properties beneath Pine Island Glacier revealed by Autosub3 and implications for circulation and melting [Abstract] [PDF]	Dutrieux
11:30	Effects of waves on ice shelves [Abstract] [PDF]	Sergienko
11:45	Seismic Studies of Glacier Calving [Abstract] [PPT]	Walter
12:00	Poster Introductions (30 min.)	
12:30	LUNCH (90 min.)	Dining Hall

2:00	Idiosyncrasies of Measurements and Mixing in Seawater Near Freezing [Abstract] [PDF]	McPhee
2:15	Grounding line basal melt rates determined from internal stratigraphy [Abstract] [PDF]	Catania
2:30	Analysis of ice plains on Ross and Filchner/Ronne ice shelves using ICESat data [Abstract] [PPT]	Brunt
2:45	Antarctic ice shelf thickness estimates derived from satellite altimetry [Abstract] [PPT]	Griggs
3:00	A Time-Dependent Model of Pine Island Glacier Constrained by Satellite Observations [Abstract] [PPT]	Joughin
3:15	BREAK (30 min.)	
3:45	GPS velocity from the Pine Island Glacier drainage area [Abstract] [PDF]	Truffer
4:00	Wind Effects on Circumpolar Deep Water Intrusions on the West Antarctic Peninsula Continental Shelf [Abstract] [PPT]	Dinniman
4:15	Marine ice in Larsen Ice Shelf [Abstract] [PPT]	Holland, P.
4:30	Antarctic Ice Shelf Environmental Survey and Oceanographic Capability: Interdisciplinary Science Plans and Prospects [Abstract] [PPT]	Rack
4:45	PANEL DISCUSSION (30 min.)	Plenary

5:15	BREAK (45 min.)	
6:00	DINNER	Dining Hall
7:00	Poster session (2 hr.)	
Monday, September 28, 2009		
8:00	Breakfast	Dining Hall
	Topic #2: "Answering the Call" – How are models being used to predict the future of the ice sheet and future sea level?	
9:00	Inferring Transients in Ice Flow, Ice Thickness, and Accumulation Rate from Internal Layers near the WAIS Divide ice-core site [Abstract] [PPTX]	Koutnik
9:15	The interaction of context and structural uncertainty in ice sheet modeling [Abstract] [PPT]	Little
9:30	High-resolution simulation of the extent and flow of Antarctic Peninsula glaciers [Abstract] [PDF]	Golledge
9:45	The failure of fracture mechanics: (Or can fracture mechanics be used to predict when melt ponds will drain?) [Abstract] [PDF]	Bassis
10:00	Ice sheet water models: routing, timing, and pressure distribution [Abstract] [PPT]	Carter
10:15	BREAK (30 min.)	

10:45	The Dilemma of RESOLUTION: How good MUST it be? [Abstract] [PPT]	Fastook
11:00	Response of the Antarctic Ice Sheet to increased ice-shelf oceanic melting [Abstract] [PDF]	Pollard
11:15	The heroic age of ice sheet modeling: Glimmer, CISM and all that [Abstract] [PDF]	Lipscomb
11:30	SeaRISE: Addressing "How bad could it get"? [Abstract] [PPTX]	Bindschadler
11:45	The Life Cycle of Ice Streams [Abstract] [PPT]	Hughes
12:00	PANEL DISCUSSION (30 min.)	Plenary
12:30	LUNCH (75 min.)	Dining Hall
	Topic #3: "Up & Down We Go" – Active subglacial hydrology and what it might mean for West Antarctica's future	
1:45	Basal Reflectivity and Bed Conditions Along the US-ITASE Traverse, Taylor Dome to South Pole [Abstract] [PPT]	Jacobel
2:00	Active sub-glacial lakes beneath two more Antarctic outlet glaciers appear to cause rapid speed and elevation changes [Abstract] [PPT]	Scambos
2:15	What are your lakes doing to my glaciers? [Abstract] [PPT]	Smith, B.
2:30	Stability and drainage of subglacial water systems [Abstract] [PPT]	Creyts

2:45	BREAK (30 min.)	
3:15	Progress in modeling sheet-flow outburst flooding [Abstract] [PDF]	Rice
3:30	Of Bubbles and Bergs: Underwater Acoustics at the Ice/Ocean Boundary [Abstract] [PPT]	Pettit
3:45	The Whillans Ice Stream Subglacial Access Research Drilling (WISSARD) Project [Abstract] [PPT]	Fricker
4:00	PANEL DISCUSSION (30 min.)	Plenary
4:30	BREAK (15 min.)	
	Topic #4: "Doctors with a Drill" – Where, why and when should the next deep ice core in West Antarctica be drilled?	
4:45	Modelling and measurements of vertical strain-rates under ice domes and ridges [Abstract] [PDF]	Gillet-Chaulet
5:00	Antarctic temperature change and its relevance to future ice core drilling efforts [Abstract] [PDF]	Steig
5:15	PANEL DISCUSSION (30 min.)	Plenary
5:45	BREAK (15 min.)	
6:00	DINNER	Dining Hall
7:00	Poster Session (2 hr.)	

Tuesday, September 29, 2009		
8:00	Breakfast	Dining Hall
	Topic #5: "Exposed!" – If the ice sheet were largely removed during the last interglacial, what would we find at the bottom of WAIS Divide or elsewhere revealing this history?	
9:00	Reconstructing past Antarctic ice flow paths using detrital zircon provenance [Abstract] [PPT]	Schilling
9:15	Subglacial Landform Analysis and Reconstruction of Miocene Paleotopography of Marie Byrd Land [Abstract] [PPT]	Spector
9:30	Preservation of Pliocene age surfaces beneath the WAIS: Insights from emergent nunataks in the Ohio Range [Abstract] [PDF]	Ackert
9:45	Active-Recent Volcanism Associated With the West Antarctic Rift System Interpreted From Aerogeophysical Observations, and Possible Effects on the Stability of the West Antarctic Ice Sheet [Abstract] [PPT]	Behrendt
10:00	AGAP: Exploring the Gamburtsev Subglacial Mountains with Aerogeophysical Surveys during the IPY [Abstract] [PDF]	Studinger
10:15	BREAK (30 min.)	
10:45	Variation in Subglacial Roughness in West Antarctica: What does this mean for pre ice sheet sediment provenance? [Abstract] [PPT]	Young

11:00	Pleistocene WAIS history from marine sediment cores [Abstract] [PPT]	Scherer
11:15	A Probabilistic Assessment of the WAIS and Greenland Contributions to Sea Level during the Last Interglacial [Abstract]	Oppenheimer
11:30	Anisotropic basal roughness at scales close to the transition wavelength beneath upper Thwaites Glacier [Abstract] [PPT]	MacGregor
11:45	PANEL DISCUSSION (30 min.)	Plenary
12:15	LUNCH (90 min.)	Dining Hall
	Topic #6: "Life on the Edge" – What is happening, once happened or might happen beyond the ice sheet margin that relates to the future of West Antarctica?	
1:45	Is ice mechanical heterogeneity controlling the stability of the Larsen C ice shelf? [Abstract] [PPT]	Kulessa
2:00	Numerical model investigation of Crane Glacier response to collapse of Larsen-B Ice Shelf, Antarctic Peninsula [Abstract] [PDF]	Campbell
2:15	Factors Regulating Post-LGM Retreat of the Pine Island and Marguerite Ice Streams [Abstract] [PDF]	Anderson
2:30	PANEL DISCUSSION (15 min.)	
	WAIS/FRISP business	
3:00	Adjourn	

	Posters	
	West Antarctic Ice Sheet Elevations near the Ice Divide prior to the LGM [Abstract]	Ackert
	The Antarctic Glaciological Data Center An Archive for NSF Antarctic Program Glaciological Research [Abstract]	Bauer
	Decadal flow variations of Whillans and Kamb Ice Streams from high resolution GPS measurements [Abstract]	Beem
	Peering Beneath the Ice Sheet: AGAP Evidence for a More Dynamic East Antarctica [Abstract]	Bell
	A second MODIS Mosaic of Antarctica: MOA-2009 [Abstract]	Bohlander
	Analogue modeling of water flow under ice; what can we learn? [Abstract]	Catania
	Geometric enhancement of the absorption of incoming insolation on complex terrain [Abstract]	Cathles
	Changes in the surface velocity of Thwaites Glacier from differential GPS observations [Abstract]	Christianson
	A comparison of geophysical observations of a Greenlandic supraglacial lake drainage using commercial instruments and a low-cost experimental alternative [Abstract]	Christianson

	Constraints on the Timing of the Last Deglaciation of Antarctica [Abstract]	Clark
	Oceanographic Observations Pertinent to the Petermann Glacier [Abstract]	Falkner
	Past Flow Conditions of Thwaites Glacier revealed by radar-detected internal layer patterns [Abstract]	Fudge
	Modeling Abrupt Change in Global Sea Level due to Ocean-Ice-sheet Interaction [Abstract]	Gladish
	Surface Elevation Changes at the Front of the Ross Ice Shelf; Implications for Basal Melting [Abstract]	Horgan
	Convection-driven melting near the grounding lines of ice shelves and tidewater glaciers [Abstract]	Jenkins
	A Closer look at evidence for subglacial drainage systems in Pine Island Bay, Antarctica [Abstract]	Kirshner
	Using the level set method to track ice sheet boundaries [Abstract]	Lindsey
	Examining the slope-driven control of basal melting [Abstract]	Little
	Glaciology of the Bottleneck, Amery Ice Shelf [Abstract]	Lurie
	Limits to WAIS Predictability? [Abstract]	MacAyeal

	Estimating englacial radar attenuation using depth profiles of the returned power, central West Antarctica [Abstract] [PNG]	Matsuoka
	Assessing Assessments: a sociocultural history of the West Antarctic Ice Sheet [Abstract]	O'Reilly
	Glaciology of the Bottleneck [Abstract]	Pingree
	Subglacial Landform Analysis and Reconstruction of Miocene Paleotopography of Marie Byrd Land [Abstract]	Spector
	Provenance Implications of Cenozoic Basalt in East Antarctica [Abstract]	Townsend
	Recent thinning and migration of the Western Divide, central West Antarctica [Abstract]	Waddington
	Initial effects of oceanic warming on a coupled ocean–ice shelf–ice stream system [Abstract] [PDF]	Walker
	Autonomous unmanned platforms and sensors for polar research applications [Abstract]	Wardell
	Analyzing TAMSEIS for Seismic Events of High Temporal Regularity Beneath David Glacier in the Transantarctic Mountains [Abstract]	Zoet

2023 WAIS Workshop

2022 WAIS Workshop

2022 Agenda

2021 WAIS Workshop

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Previous Meetings