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LINKS

2005 WAIS Workshop Agenda

Wednesday, September 28, 2005		
2:00 to 6:00	Registration	Floyd
7:00	Pizza, beer and snacks (cottage #1)	Bindschadler
Thursday September 29, 2005		
8:00	CONTINENTAL BREAKFAST	
8:00	Registration	Floyd
8:30	Welcome and Agenda Review	Bindschadler
8:45	NSF Remarks	Palais/Borg
	<i>Session #1. Ice Coring</i>	
9:15	US ITASE Phase 2 Taylor Dome – South Pole Update and Opportunities [PPT]	Mayewski
9:30	Signals of climate change and the Southern Annular Mode in Antarctic stable isotope records [Abstract] [PPT]	Schneider
9:45	A new Deep Ice Sheet Coring (DISC) drill for coring to the bed at the WAIS Divide site [Abstract] [PPT]	Bentley
10:00	ASEP-Coring [Abstract] [PPT]	Alley
10:30	BREAK (30 min.)	
11:00	In Cold Pursuit: the Devious Designs of NSF Grantee W-218-M [Abstract] [PPT]	Andrews

11:15	Poster Introductions (1–2 min. each)	
12:00	Poster Viewing (30 min.)	
12:30	LUNCH (1 hr. 30 min.)	
	Session #2. More History	
2:00	Glacial Geology of the Ohio Range, Antarctica: Constraints on Ice Elevation during the Last Glaciation [Abstract] [PDF]	Ackert
2:15	Post-LGM evolution of Reedy Glacier, Antarctica, as an indicator of current ice sheet stability [Abstract] [PPT]	Bromley
2:30	Evolution of Reedy Glacier from the last glacial maximum to present [Abstract] [PPT]	Todd
2:45	Glacial history of the ridge between Mercer and van der Veen Ice Streams [Abstract] [PPT]	Conway
3:00	Grounding-line incursion into the southernmost Ross Sea – a comparison of lower Scott and Reedy Glaciers [Abstract] [PDF]	Stone
3:15	Can sulfate signatures in ice cores verify the source volcano? [Abstract] [PDF]	Kurbatov
3:30	ASEP–Terrestrial Geology [PDF]	Stone/Hall
4:00	BREAK (45 min.)	
	Session #3. Accumulation	
4:45	Impacts of Accumulation Rate on Firn Properties [Abstract]	Courville
5:00	Mapping accumulation rate by observing the characteristic time scale of microwave emission [Abstract] [PPT]	Steig
5:15	Inferred accumulation and thickness histories near the Ross/Amundsen divide, West Antarctica [Abstract] [PPT]	Neumann
5:30	Influence of ice dynamics on firn layers in the WAIS [Abstract] [PPT]	Gray
5:45	Snow Surface Height Change Induced by 2 Decades Surface Air Temperature Variations Over Antarctic Ice Sheet [Abstract] [PPT–contact author]	Li

6:00	Poster Viewing	
6:30	DINNER	
Friday, September 30, 2005		
8:00	CONTINENTAL BREAKFAST	
	<i>Session #4. Ice Dynamics</i>	
8:30	WAIS Elevation changes estimated by the ICESat mission so far [Abstract] [PPT]	Smith
8:45	Modeling of Negative Magnetic Anomalies Over the WAIS Partially Constrains Age of Sub-glacial Volcanic Activity [Abstract] [PPT]	Behrendt
9:00	Discontinuous Sediment Cover and "Fast" Ice Flow: Observations from the Upper Reaches of Tributary C1B [Abstract] [PPT]	Peters
9:15	Sediment transport and erosion, and water redistribution, on decadal timescales beneath Rutford Ice Stream [Abstract] [PPT]	Smith
9:30	Control of ice stream stick-slip dynamics by frictional healing [Abstract] [PPT]	Winberry
9:45	Radar Studies of the Trunk and 'Sticky Spot' of Kamb Ice Stream [Abstract] [PPT]	Jacobel
10:00	Subglacial conditions of inland West Antarctica from US-ITASE deep radar reflection analysis [Abstract] [PPT]	Welch
10:15	BREAK (30 min.)	
10:45	ScITESEN – a scientific drilling traverse in West Antarctica investigating the influence of ice-ocean-lithosphere interaction on ice sheet stability, by direct means [Abstract] [PPT]	Vogel
11:00	Integrating satellite observations with modeling: basal shear stress of the Filcher-Ronne Ice Streams, Antarctica [Abstract] [PPT]	Joughin
11:15	Glacier changes in Pine Island Bay and the Antarctica Peninsula from Radarsat-1 2000–2005 [Abstract]	Rignot
11:30	Pine Island Glacier Basin – we have the data, now what does it all mean? [Abstract] [PPT–contact author]	Vaughan
11:45	The rough and the smooth: what the radar saw in PIG [Abstract] [PPT]	Corr
12:00	Summary of the 2004–05 Airborne Geophysical Survey of the Amundsen Sea Embayment, Antarctica (AGASEA) with preliminary	Holt

	results for the Thwaites Glacier catchment [Abstract]	
12:15	Boundary conditions on the Thwaites Glacier Catchment and Walgreen Coast of the West Antarctic Ice Sheet from the AGASEA survey [Abstract]	Young
12:30	ASEP–Ice Dynamics [PPT]	Anandakrishnan/Joughin
1:00	LUNCH (1 hr. 30 min.)	
	Session #5. Ocean–Ice Interactions	
2:30	Interaction of the Great Sumatra Earthquake with an Antarctic ice shelf rift: Preliminary results from GPS and seismic observations of a rift on the Amery Ice Shelf 2004–2005 [Abstract] [PPT]	Bassis
2:45	Subsurface melting on iceberg C16 (Ross Sea) [Abstract] [PPT 1 of 2] [PPT 2 of 2] [MOVIE]	Sergienko
3:00	Icebergs Behaving Shelf–ishly: why wait for the Larsen C? [Abstract] [PPT]	Scambos
3:15	Getting into the Zone: Ice Shelf Margins from ICESat [Abstract] [PPT]	Padman
3:30	BREAK (45 min.)	
4:15	Grounding Line Zone Studies Using a Tethered and Well Instrumented ROV/AUV & The world beneath the ice shelves: Let's have a look! [Abstract] [PPT]	Scherer
4:30	IPY in the Antarctic Peninsula–Ice Shelves, Oceans, and Climate [Abstract] [PPT]	Domack
4:45	ASEP–Ocean/Ice Interactions [Abstract]	Holland/Jacobs
5:15	Poster Viewing	
6:00	DINNER	
Saturday, October 1, 2005		
8:00	CONTINENTAL BREAKFAST	
	Session #6. Modeling	
8:30	Investigating feedbacks between basal sliding, frictional melting, and longitudinal–stress transmission [Abstract] [PPT]	Price

8:45	Effects of anisotropy on ice flow at Siple Dome, West Antarctica [Abstract] [PPT]	Pettit
9:00	Wind-Blown Snow Infilling of a Rift in the Ross Ice Shelf [Abstract] [PPT] [MOVIE]	Leonard
9:15	Recent Antarctic accumulation variability and trends from Polar MM5 [Abstract] [PPT]	Monaghan
9:30	Numerical modelling of ocean-ice interactions under Pine Island Bay's ice shelf [Abstract] [PPT]	Payne
9:45	BREAK (30 min.)	
10:00	Embedded Models: Application to the Ross Sea and Amundsen Sea Sectors, Retreat from LGM [Abstract] [PPT]	Fastook
10:30	Better Physics in Embedded Models: Iceberg arcing and Lake-surface profiles [Abstract] [PPT]	Sargent
10:45	ice streams stop and start: numerical model interpretation of Ross Ice Shelf surface [Abstract] [PDF] [MOVIE-contact author]	Hulbe
11:00	Elevation Change Anomalies in West Antarctica – New Windows Into Dynamics of Subglacial Water Flow [Abstract] [PPT]	Tulaczyk
11:15	ASEP-Modeling [Abstract] [PPT]	Johnson/Hulbe/Payne
11:45	Comments by Invited Guests	
12:00	WAIS Program: Activities, Actions and Needs	Bindschadler
12:30	Adjourn	
	Posters	
	New High-resolution VIS/NIR Satellite Image Mosaics of Greenland and Antarctica: MOG and MOA [Abstract]	Bohlander
	Evidence for rapid ice stream margin migration and sudden narrowing of Kamb Ice Stream, Antarctica [Abstract] [TIF]	Catania
	IC, ICPMS and Water Isotope Measurements From the 2002 and 2003 US ITASE [Abstract] [PPT]	Dixon
	Progress on Radiocarbon Dating of Antarctic Marine Sediments [Abstract]	Domack
	The Importance of Small Ice Shelves to Inland Ice [Abstract]	Dupont

	New aeromagnetic and aerogravity survey over the drainage basin of Pine Island Glacier [Abstract] [PPT]	Ferraccioli
	An ultra wideband plane wave radar for mapping near-surface isochronous layers [Abstract]	Gogineni
	Tectonics and glacial-marine sedimentation in Pine Island Bay: Survey plan of an upcoming RV Polarstern cruise [Abstract]	Gohl
	The Holocene Radiocarbon Reservoir Effect in the Western Ross Sea [Abstract]	Hall
	Relict Algal Mats at Reedy Glacier: Radiocarbon Dating at 86S; [Abstract]	Hall
	Headwall Initiation of Ice Stream and Outlet Glacier Onsets: Evidence from Satellite Imagery [Abstract] [PDF]	Hamilton
	Comparing velocity profiles of Byrd Glacier with a simple 2D flow model [Abstract] [PPT]	Hofstede
	Dynamics of the Grounding Line of Whillans Ice Stream [Abstract]	Horgan
	Relating Longitudinal Tension, Basal Shear, and Side Shear To Ice-Bed Coupling Beneath Ice Streams [Abstract]	Hughes
	Global Ice Sheet Mapping Orbiter [Abstract] [PDF]	Jezek
	NRC Decadal Survey [DOC]	Jezek
	Seismic Studies of the Amery Ice Shelf, East Antarctica [Abstract] [PPT]	McMahon
	Wideband Radars for Imaging the Bed and Mapping Internal Layers [Abstract]	Paden
	Radar Wave Speed and Attenuation Studies Using Constant Midpoint Profiles on Kamb Ice Stream [Abstract]	Pettersson
	Ice-flow sensitivity to sticky spots, side shear, and buttressing [Abstract]	Parizek
	Proposal for a Collaborative REU Site Program: REAL ICE – Research Experience in Antarctica Linking Ice and Climate Education [Abstract] [PPT]	Pettit
	Flow and thickness history of Siple Dome, West Antarctica [Abstract] [PDF]	Price
	Laboratory Study of Till Rheology [Abstract]	Rathbun
	Self-organizing maps in review: recent applications in polar (paleo)climatology_ [Abstract]	Reusch
	What ever happened to the Byrd "Snow Cruiser"? [Abstract]	Scambos
	Forget WAIS, Totten is submarine too [Abstract]	Shepherd

	ICESat Altimetry – Lots of Data, Lots of Details [Abstract]	Shuman
	ASTER Imagery of Antarctica: Geographic Coverage, Data Availability and Glaciological Applications [Abstract] [PPT]	Stearns
	Deglaciation of the southern Ellsworth Mountains, Weddell Sea Sector of the West Antarctic Ice Sheet	Todd
	Will Kamb Ice Stream Restart or Get Captured by Whillans Ice Stream? Preliminary Insights From Changes in Ice Surface Velocities in the UpC Area Between 1996 and 2004 [Abstract]	Tulaczyk
	A most beautiful view of Antarctica for the IPY: the Landsat-7 mosaic [Abstract] [PDF]	Vornberger
	Transition Flow of Ice Surrounding Subglacial Lake Vostok [Abstract]	Wang

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