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2013 WAIS Workshop Agenda

Sunday, September 29		
Time	Topic	Location
4:00–7:00 p.m.	Workshop Check In	Algonkian Conference Center
5:00 p.m.	WAIS Steering Group Meeting	Cabin No. 10
7:00 p.m.	Icebreaker/dinner (pizza and beer)	Cabin No. 7

Monday, September 30		
Time	Topic	Speaker
7:30 a.m.	Breakfast and workshop check in	Lobby of Conference Center
8:30	Welcome	Anandakrishnan and Detwiler

Session 1	<i>Land Of Oz</i> – "The land you know, the story you don't..." Subglacial environments, lakes, grounding lines	
8:40	WISSARDs and GLIDERs: Season Recap and Forecast [Abstract] [Presentation]	Scherer
8:55	Invited speaker Some Lessons on Basal Physics of Ice Motion from Flow Variability of Whillans Ice Plain: the WISSARD GPS Experiment (in a Shadow of a Borehole) [Abstract] [Presentation]	Tulaczyk
9:15	Tidal Pacing, Stick Slip, and the Slow Down of the Whillans Ice Stream [Abstract] [Presentation]	Winberry
9:30	What Basal Crevasses Reveal About Stress State at the Ice–Ocean Interface of Whillans Ice Stream [Abstract] [Presentation]	Jacobel
9:45	Subglacial water and sediment transport across the grounding zone of Whillans Ice Stream, West Antarctica [Abstract] [Presentation]	Christianson
10:00	Bathymetry and geological structures beneath the Ross Ice Shelf at the mouth of Whillans Ice Stream, West Antarctica, modeled from ground-based gravity measurements [Abstract] [Presentation]	Muto
10:15	Panel and open discussion / coffee break	
10:35	Address by NSF and NASA Program Managers, and discussion with Alex Isern, Jessie Crain, Tom Wagner, and Marco Tedesco	
Session 2	<i>Hurricane</i> – "There is only one safe place...in each others' arms" Policy, preparedness, outreach	
11:10	Travelling the Last Mile: Communicating Cryospheric Knowledge [Abstract] [Presentation]	Bindschadler

11:25	Abrupt Climate Change and WAIS [Abstract] [Presentation]	R. Alley
11:40	Invited Speaker Melting west Antarctic Ice sheets fuels high biological productivity in the coastal ocean [Abstract] [Presentation]	Arrigo
12:00	Invited speaker Ice Velocity Mapping in Antarctica – Achievements, Challenges and the Way Forward [Abstract]	Scheuchl
12:20	Why Philosophy-of-Science Is Important When Assessing the Outlook for the Ice Sheets [Abstract] [Presentation]	Wikman-Svahn
12:35	Lunch (85 min) Poster set up	Conference Center
Session 3	<i>Ice Quake</i> – "Nature unleashed" Ice and solid-earth interactions	
2:00	Deep troughs dissect the Marie Byrd Land subglacial highland: Initial results of the GIMBLE survey [Abstract]	Young
2:15	Invited speaker The Structure and Seismicity of West Antarctica and Implications for the Evolution of the West Antarctic Ice Sheet [Abstract] [Presentation]	Wiens
2:35	Invited speaker Influence of subglacial conditions on ice stream dynamics: Seismic and potential field data from Pine Island Glacier [Abstract] [Presentation]	A. Smith
2:55	Panel and open discussion / coffee break	

3:10	The Sedimentary Record of Meltwater Intensive Glacial Erosion in Pine Island Bay, West Antarctica and Implications for Glacial Dynamics [Abstract] [Presentation]	Anderson
3:25	Dynamic Stick–Slip at the Base of Ice Sheets Generates Massive Internal Deformation [Abstract] [Presentation]	Wolovick
3:40	Rib–like patterns in basal shear of ice streams [Abstract] [Presentation]	Sergienko
3:55	Exposure history of West Antarctic nunataks [Abstract] [Presentation]	Spector
4:10	Panel and open discussion / coffee break	
Poster Session		
4:30	Poster session introductions	One slide per person, 45 sec to introduce
4:50 to 6:30	Poster session	Behrendt (invited poster) Bentley [History] Bittner Chan Child Holschuh Jefferson Koutnik Minzoni Moussavi Pope Seroussi Shuman E. Smith J. Smith Stearns Stevens St–Laurent Tressel Vornberger R. Walker Zoet

6:30	Dinner	Conference Center
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Tuesday, October 1		
Time	Topic	Speaker
7:30 a.m.	Breakfast	Conference Center
Session 4	Titanic – "Collide with destiny" Ice/ocean interactions / PIG – ASE	
8:30	Sensitivity of Thwaites Glacier to Ice Shelf Melting [Abstract] [Presentation]	Joughin
8:45	New constraints on the ocean cavity beneath the Pine Island Glacier Ice Shelf, Antarctica [Abstract] [Presentation]	Anandakrishnan
9:00	Invited speaker New constraints on the ocean cavity beneath the Pine Island Glacier Ice Shelf, Antarctica [Abstract] [Presentation]	Bindschadler
9:20	Bathymetry beneath the Abbot Ice Shelf from IceBridge gravity data: Implications for ocean–ice interactions [Abstract] [Presentation]	Cochran
9:35	High basal shear stress vs. high basal melt: accelerations on the Getz Ice Shelf, West Antarctica [Abstract] [Presentation]	K. Alley
9:50	The effect of geometry on ice–shelf ocean cavity ventilation: a laboratory experiment [Abstract] [Presentation]	Stern

10:05	What Can Radar Scattering Tell Us About the Relative Character of Past and Future Retreats in the Amundsen Sea Embayment? [Abstract] [Presentation]	Schroeder
10:20	Panel and open discussion / coffee break	
Session 5	<i>The Thaw</i> "Extinction will find you:" Mass balance and processes of the Amundsen Sea Sector	
10:45	Radar characteristics of an ice stream marginal crevasse zone: analysis of a high resolution, three-dimensional GPR dataset from the margin of Rutford Ice Stream, West Antarctica [Abstract] [Presentation]	E. King
11:00	Evidence of rapid subglacial water piracy under Whillans Ice stream [Abstract] [Presentation]	Carter
11:15	Deformation-induced melting in the margins of the West-Antarctic ice streams [Abstract] [Presentation]	Suckale
11:30	Subglacial flood event observed using in situ GPS data, CryoSat-2 altimetry, and MODIS image differencing on the Whillans Ice Plain, West Antarctica [Abstract] [Presentation]	Siegfried
11:45	Crevasse forming in wind-glazed surfaces of East Antarctica [Abstract] [Presentation]	Byers
12:00	Invited speaker The Neglected Middle Child – Snow, Firn, and Water Storage in the Ice Sheet Percolation Zone [Abstract] [Presentation]	Pettit
12:20	Panel and open discussion	
12:35	Lunch (85 min)	
Session 6	Titanic Part 2 Ice / Ocean Interactions	

2:00	<p>Invited speaker</p> <p>Improved elevation change records for Antarctic ice shelves from satellite radar and laser altimetry, 1992–2012</p> <p>[Abstract]</p>	Fricker
2:20	<p>Invited speaker</p> <p>Differential melting of wAP glaciers by modified upper circumpolar deep water along a latitudinal gradient</p> <p>[Abstract] [Presentation]</p>	Vernet
2:40	<p>Invited speaker</p> <p>Antarctic Peninsula ice surface elevation change – preliminary analysis of CryoSat–2 data</p> <p>[Abstract] [Presentation]</p>	Briggs
3:00	<p>Invited speaker</p> <p>What goes down must come up: viscoelastic deformation in the Antarctic Peninsula</p> <p>[Abstract] [Presentation]</p>	M. King
3:20	Panel and open discussion / coffee break	
3:45	<p>Evolution of basal crevasses links ice shelf stability to ocean forcing</p> <p>[Abstract] [Presentation]</p>	Bassis
4:00	<p>Evolving Toward the Next Antarctic Ice Shelf Disintegration: Recent Ice Velocity, Climate, and Ocean Observations of the Larsen B Ice Shelf Remnant at Scar Inlet</p> <p>[Abstract] [Presentation]</p>	Scambos
4:15	<p>Seabed topography beneath Larsen C Ice Shelf from seismic soundings</p> <p>[Abstract] [Presentation]</p>	Brisbourne
4:30	<p>Controls and consequences of rapid environmental change on the atmosphere-sea ice-ocean system in the Larsen Ice Shelf area</p> <p>[Abstract] [Presentation]</p>	Cape
4:45	<p>ENSO and SAM Relationships Across the Antarctic Peninsula in Contrast to West Antarctica</p> <p>[Abstract] [Presentation]</p>	Clem

5:00	Panel and open discussion		
Poster Session Part Two			
5:15	Poster session (another opportunity)		
6:30	Dinner		Conference Center

Wednesday, October 2		
Time	Topic	Speaker
7:30 a.m	Breakfast	
8:30	WAIS Planning	
Session 7	<i>Zoolander</i> Models of ice, ocean, sediments, water	
9:30	Nested Ice-Sheet Modeling of Long-Term Variations in the Pine Islands-Thwaites Glacier Basins [Abstract] [Presentation]	Pollard
9:45	SIA vs Higher Order: Greenland tests, and thoughts on Antarctica [Abstract] [Presentation]	Parizek
10:00	Response of ice motion to bold tidally influenced subglacial hydraulic systems discussed in large Arial Font [Abstract] [Presentation]	Creyts
10:15	Panel and open discussion / coffee break	
10:35	Rapid grounding line migration induced by internal variability of a marine-terminating ice stream [Abstract] [Presentation]	Robel

10:50	Icepod: Imaging of Ice Sheets from Top to Bottom [Abstract] [Presentation]	Bell
11:05	Determination of local slope using photon-counting laser altimetry [Abstract] [Presentation]	Brunt
11:20	Using zigzags to quantify surface melt (in Greenland) [Abstract] [Presentation]	Tinto
11:35	Panel and open discussion	
12:00	Closing remarks	Anandakrishnan
12:15	Adjourn	

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