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2012 WAIS Workshop Agenda

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Wednesday, September 19

Time	Topic	Speaker
7:00 p	Dinner	
8:00	WAIS Committee Meeting	

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Thursday, September 20

Time	Topic	Speaker
7:30 a – 8:30	Breakfast in dining hall, registration for late arrivals	
9:15	Welcome and the Future of WAIS Workshop	Eric Steig
Session 1	Mcorrhizae: observations and modeling of the base of the ice sheet	
9:40	Controls on the Geometry of Accretion Reflectors [Abstract]	Michael Wolovick

10:00	Subglacial lakes and logical extensions thereof [Abstract]	Sasha Carter
10:20	Ice stream stick-slip, sticky spots and rate-and-state friction [Abstract]	Jeremy Bassis
10:40 – 11:00	Coffee Break	
11:00	The role of subglacial drainage and basal freeze-on for ice streams [Abstract]	Marianne Haseloff
11:15	Evidence for Ice-Flow-Coupled Subglacial Water Systems beneath West Antarctica's Potentially Unstable Thwaites Glacier [Abstract]	Dustin Schroeder
11:30	Grounding Zone Heterogeneity of Whillans Ice Stream, West Antarctica [Abstract]	Knut Christianson
11:45	The influence of stick-slip motion on the present deceleration of the Whillans Ice Stream [Abstract]	Paul Winberry
12:00 – 1:30	Lunch	
1:30	WAIS Divide Ice Core Project: How did we do? [Abstract]	Don Voigt
1:45	High Basal Melt at the WAIS-Divide ice-core site [Abstract]	T.J. Fudge
2:00	Subglacial volcanism beneath the West Antarctic Ice Sheet in the West Antarctic Rift System, from aeromagnetic and radar ice sounding – Thiel Subglacial Volcano as possible source of the ash layer in the WAISCORE [Abstract]	John Behrendt
2:15	Panel and Open Discussion	

2:50	Coffee Break	
Session 2	Riparian Zone: what's new on and under the ice shelves	
3:15	Influence of ocean circulation patterns on ocean heat transport to ice shelves [Abstract]	Pierre St-Laurent
3:30	Ice shelves in cold and warm oceanic environments [Abstract]	Olga Sergienko
3:45	Increased melting of Pine Island Ice Shelf: Cause or effect? [Abstract]	Chris Little
4:00	The dynamic response of Pine Island Glacier to a calving event inferred from Elmer/Ice [Abstract]	Olivier Gagliardini
4:15	Ice-2-O: Interactions between ice shelves, sea ice and ocean [Abstract]	Laurence Padman
4:30	Panel and Open Discussion	
5:00 – 8:00	Poster Viewing	
6:00	Dinner	

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Friday, September 21

Time	Topic	Speaker
7:30 a – 8:30	Breakfast in dining hall	
Session 2	Riparian Zone (cont.)	

8:30	Intermittent rift propagation in the Amery Ice Shelf [Abstract]	Catherine Walker
8:50	Near-continuous monitoring of Antarctic ice shelf and sub-ice shelf ocean temperatures [Abstract]	David Holland
9:10	Potential Antarctic contributions to future sea level through the eyes of the SeaRISE Project [Abstract]	Robert Bindshadler
9:30	Changes in Pine Island Glacier from Time Series of ICESat GLAS Data [Abstract]	Ute Herzfeld
9:45	Panel and Open Discussion	
10:00	Coffee Break	
Session 3	Understory: surface mass balance and atmospheric variability	
10:20	Perspective on the West Antarctic warming from the reconstructed Byrd temperature record (1957–2012) [Abstract]	Julien Nicolas
10:40	New, High-Resolution Spatio-Temporal Accumulation Rate Measurements and Their Validation of Climate Models and Implication for the Recent Sea-Level Contribution from West Antarctica [Abstract]	Brooke Medley
10:55	Changing Influences on the Climate of West Antarctica and the Antarctic Peninsula during Austral Spring [Abstract]	Kyle Clem
11:10	WAIS Divide: recent climate change in West Antarctic in the context of the last 2000 years [Abstract]	Eric Steig

11:25	The Losers Next Door: Mass loss from Thwaites, Pope and Smith glaciers [Abstract]	Ben Smith
11:40	Mass Balance of the northern Antarctic Peninsula from image- and ICESat-based dH/dt [Abstract]	Ted Scambos
12:00 – 1:00	Lunch	
Session 4	Canopy: results from satellites, airborne measurements, or state-of-the art models	
1:30	Systematic analysis of the resolution of inversions of airborne gravity data for bathymetry beneath floating ice [Abstract]	James Cochran
1:45	Bed topography of the Byrd Glacier trunk from airborne radar soundings of the ICECAP Project [Abstract]	Jack Holt
2:00	Along-stream evolution of melt under the Pine Island Glacier ice shelf, West Antarctica [Abstract]	Pierre Dutrieux
2:15	Evolution of Antarctic Ice Sheet surface elevation and thickness changes from ICESat laser altimetry, 2003–2009 [Abstract]	Bea Csatho
2:30	Model-Based Analysis of Ice Sheet Thinning in the Amundsen Sea Embayment [Abstract]	Ian Joughin
2:45	Sub-meter imagery status of WAIS [Abstract]	Paul Morin
3:00	Coffee, Panel and Open Discussion	

3:30	Linkage between Grounding Line Dynamics and Geological Observations in the Weddell Sea Sector of Antarctica [Abstract]	Kat Huybers
3:45	Insights on WAIS history from a high-resolution Eemian record collected at the Allan Hills Blue Ice Area, Antarctica [Abstract]	Nicole Spaulding
4:00 – 4:30	Wrap-up Discussion	
4:30 – 8:00	Poster Viewing	
6:00	Dinner	

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Saturday, September 22

Time	Topic	Speaker
7:30 a – 8:30	Breakfast	
9:00	WAIS Committee Meeting	

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Poster Abstracts

Topic	Lead Author
Analyzing the Sensitivity of Grounding-Line Dynamics in Response to Periodic Forcing [Abstract]	Erkut Aykutlug

An observed negative trend in West Antarctic accumulation rates from 1975 to 2010: evidence from new observed and simulated records [Abstract]	Landon Burgener
Late Cenozoic glacial history of Shackleton Glacier, Antarctica [Abstract]	Elizabeth Dengler
Detailed basal topography of the floating portion of Pine Island Glacier, West Antarctica [Abstract]	Pierre Dutrieux
Ice mechanics, basal water and the stagnation of Kamb Ice Stream, Antarctica [Abstract]	Mason Fried
Glacial Geomorphology of the Pensacola Mountains, Weddell Sea Sector, Antarctica [Abstract]	Matthew Hegland
Effects and feedbacks of the basal sliding parameter on ice and water flow beneath an ice-stream [Abstract]	Justin Hiester
Big or little? Patterns of change on the Ross Ice Shelf [Abstract]	Christina Hulbe
History of the Ross Sea Ice Sheet in Salmon Valley During the Last Glaciation [Abstract]	Margaret S. Jackson
Propagation of an active rift in the Ross Ice Shelf, Antarctica [Abstract]	Christine LeDoux
A community model for transient thermo-mechanical evolution of firn density [Abstract]	Jessica Lundin
Subglacial till body underneath a contemporary grounding zone [Abstract]	Kenny Matsuoka
Gravity survey on the Ross Ice Shelf at the mouth of Whillans Ice Stream, West Antarctica [Abstract]	Atsuhiko Muto

Sea-ice ocean interactions in a high-resolution global climate model [Abstract]	Emily Newsom
Nested ice-sheet modeling of long-term variations in the Pine Island-Thwaites Glacier basins [Abstract]	David Pollard
Automated Production of High Resolution Commercial Imagery Mosaics of Antarctica [Abstract]	Claire C. Porter
Antarctic Data at NSIDC: Continued Data Collection, Archiving, and Distribution of Results of NSF-OPP Funded Research in Antarctic Glaciology [Abstract]	Ted Scambos
Thermal migration of ice stream shear margins [Abstract]	Christian Schoof
Quantifying Ice-sheet/Ice-shelf Dynamics and Variability with Meter-scale DEM and Velocity Timeseries [Abstract]	David Shean
A comparison of grounding zone features and flexure dynamics in two geometries over a 12-hour tidal range [Abstract]	Matthew Siegfried
Long-term glacial history of the central Transantarctic Mountains [Abstract]	Perry Spector
Physical Properties in Thin Sections from WAIS Divide Core WDC06A; Fabric, Bubbles, Grains and More [Abstract]	Don Voigt
Ice-shelf tidal flexure and subglacial pressure variations [Abstract]	Ryan T. Walker
Inferring the seasonality of past precipitation from ice core impurity records [Abstract]	Mai Winstrup

<p>GIMBLE: Geophysical Investigations of Marie Byrd Land Evolution: a new airborne survey of the linchpin of the West Antarctic Ice Sheet</p> <p>[Abstract]</p>	Duncan Young
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