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LINKS

2011 WAIS Workshop Agenda

Tuesday, September 20

Time	Topic	Speaker
4:00	WAIS Steering Group Meeting	
6:30	Dinner (pizza party)	

Wednesday, September 21

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Time	Topic	Speaker
7:15 to 8:30	Breakfast	
7:30	Registration	
8:45	Welcome	Ted Scambos
Session 1	Quadrophenia: Multi-discipline system science in WAIS (PIG, LARISSA, WISSARD, Ice2Sea)	
9:00	Sensitivity studies of ice flow acceleration in response to increased ice shelf melting in the region of Pine Island Glacier [Abstract] [Presentation]	Eric Larour

9:15	Bedforms and melt beneath Pine Island Glacier, results from the 2011 ground radar survey [Abstract] [Presentation]	Ed King
9:30	Balancing the water budget of the Whillans Ice Plain: Implications for the nature of the subglacial hydrologic system [Abstract] [Presentation]	Sasha Carter
9:45	LARISSA: Using integrated system science to understand the impact of climate change on an ice shelf system [Abstract] [Presentation]	Scott Ishman
10:00	LARISSA Glaciology – The Bruce Plateau Ice Cap: Ice Dynamics across the Antarctic Peninsula [Abstract] [Presentation]	Erin Pettit
10:15	LARISSA Glaciology: Ongoing studies of borehole-derived surface temperature history, and continuing AMIGOS results and plans [Abstract] [Presentation]	Ted Scambos
10:30	Panel and open discussion	
10:45	Break	
Session 2	Both Sides Now: Modern Climate and WAIS	
11:00	The Atmospheric Control Knobs of WAIS Climate [Abstract] [Presentation]	Ryan Fogt, keynote speaker
11:30	Antarctic sea ice variability and the West Antarctic ice sheet [Abstract] [Presentation]	Marilyn Raphael, invited speaker

11:45	Modeling the surface mass balance of the Antarctic ice sheet using RACMO2: recent progress and remaining uncertainties [Abstract]	Michiel van den Broeke
12:00	Temperature changes in West Antarctica since the IGY: Perspective from the reconstructed Byrd record [Abstract] [Presentation]	Julien Nicolas
12:15	Using In-situ Firn Temperatures to Track Melt Water Retention and Firn Densification in Greenland's Accumulation Area [Abstract] [Presentation]	Neil Humphrey
12:30	Lunch (90 min) and poster set-up	
Session 3	Back in Time: Climate, Ice Cores and WAIS	
2:00	Tropical forcing of Circumpolar Deep Water inflow and outlet glacier thinning in the Amundsen Sea Embayment, West Antarctica, and its relationship to "global warming" [Abstract]	Eric Steig
2:15	Is West Antarctica running a tropical fever? [Abstract] [Presentation]	David Schneider
2:30	Interdecadal Climate Variability over Antarctica and Linkages to the Tropics: Analysis of Ice Core, Instrumental, and Tropical Proxy Data for the 19–20th Centuries [Abstract] [Presentation]	Yuko Okumura
2:45	West Antarctic Ice Sheet temporal and spatial accumulation variability from five new snowpits and firn cores [Abstract] [Presentation]	Landon Burgener

3:00	Histories of ice dynamics and climate inferred from ice cores and radar-detected layers [Abstract] [Presentation]	Howard Conway, invited speaker
3:15	Panel and open discussion	
Poster Session	Signs	
3:30	Poster session introductions	
	Break (15 min)	
3:30 to 5:30	Poster session (2 hrs) [Abstracts]	Allard, Bauer, Bridgers, Das, Fudge, Fyke, Horgan, Koffman, Larour, Leonard, Lloyd, MacAyeal, Martin, McGrath, Morin, Moussavi, Muto, Porter, Siegfried, Spector, Urasky, Walter, Williams, Zoet
5:30	Free time	
7:00	Dinner	

Thursday, September 22

Time	Topic	Speaker
7:15 to 8:30	Breakfast	
8:30	Day Two beginnings	Ted Scambos
Session 4	Space Oddity: New Results from Satellite and Airborne Measurements, Satellites	

8:45	Initial Assessment of CryoSat-2 Performance [Abstract]	Andrew Shepherd, keynote speaker
9:15	Antarctic Ice Velocity Mapped from Space: A Game Changing New Product [Abstract] [Presentation]	Bernd Scheuchl
9:30	Mass Balance of the West Antarctic Ice-Sheet from ICESat Measurements [Abstract] [Presentation]	Jay Zwally
9:45	Ongoing Changes in Glacier Elevation and Mass, Larsen A and B Embayments, Antarctic Peninsula [Abstract] [Presentation]	Christopher Shuman
10:00	Viewing a PIG Under a Spaceborne Microscope [Abstract]	Robert Bindshadler
10:15	Integrating and Combining Ice Sheet Mass Balance Estimates through GRACE and ICESat datasets [Abstract] [Presentation]	MacFerrin/Colgan
10:30	Panel and open discussion	
10:45	Break	
Session 5	Fly Like an Eagle: New Results from Satellite and Airborne Measurements, Airborne	
11:00	Under the Antarctic ice: New data in the East, new approaches in the West [Abstract] [Presentation]	Duncan Young, invited speaker
11:30	Subglacial Rivers and Thermal Structure in Dome A, East Antarctica [Abstract] [Presentation]	Michael Wolovick

11:45	Basal topography of the Institute and Möller ice streams, West Antarctica: assessing the risk of grounding-line retreat [Abstract]	Neil Ross
12:00	NASA's Operation IceBridge: using instrumented aircraft to bridge the observational gap between ICESat and ICESat-2 laser altimeter measurements [Abstract] [Presentation]	Michael Studinger
12:15	Panel	
12:30	Lunch (90 min)	
2:00	"In The Year 2525" Future of WAIS Science and WAIS Workshop (open discussion)	
Session 6	The Logical Song: Hi Tech: Radar, Seismic, and Cosmogenic Results	
2:30	Radar Results from the Geophysics Site Characterization of Subglacial Lake Whillans, West Antarctica [Abstract]	Robert Jacobel
2:45	Dynamics of Subglacial Lake Whillans from WISSARD Radar, Seismic and GPS Surveys and Satellite Laser Altimetry [Abstract]	Knut Christiansen
3:00	The Micro Subglacial Lake Exploration Device (MSLED) [Abstract] [Presentation]	Alberto Behar
3:15	Seismic Analysis of the Subglacial Environment of Thwaites Ice, West Antarctica [Abstract] [Presentation]	Leo Peters

3:30	Rapid early- to mid-Holocene thinning of Pine Island Glacier detected using cosmogenic exposure dating [Abstract]	Joanne Johnson
3:45	Geophysical evidence of Ice-Magma interactions beneath the West Antarctic Ice Sheet in the West Antarctic Rift System [Abstract] [Presentation]	John Behrendt
4:00	Panel	
4:15	Free time	
7:00	Dinner – BBQ	

Friday, September 23

Time	Topic	Speaker
7:15 to 8:30 am	Breakfast	
8:45am	Welcome	Ted Scambos
Session 7	New Ideas in Ice Dynamics: Pushing the Boundaries – Honoring Barclay Kamb and Keith Echelmeyer	
9:00	Emergence of tidewater and ice shelf calving dynamics using a granular model of ice [Abstract] [Presentation]	Jeremy Bassis
9:15	Variability in the mass flux of the Ross Sea ice streams, Antarctica, over the last millennium [Abstract] [Presentation]	Ginny Catania, invited speaker

9:30	Englacial Seismic Reflectivity – Imaging Crystal Orientation Fabric in West Antarctica [Abstract] [Presentation]	Huw Horgan
9:45	Spatial variations in ice–crystal alignments deduced from englacial radar polarimetry, central West Antarctica [Abstract] [Presentation]	Kenichi Matsuoka
10:00	Sea ice and West Antarctic ice–shelf stability [Abstract] [Presentation]	Kelly Brunt
10:15	Flow variability and propagation behavior in the Ross Ice Shelf [Abstract] [Presentation]	Christine LeDoux
10:30	Panel	
10:45	Break	
Session 8	Somebody to Love: Ice Sheet and WAIS System Models	
11:00	Bumpy beds, what to do about them [Abstract] [Presentation]	Olga Sergienko, invited speaker
11:15	Using radar layers to infer migration of WAIS Divide [Abstract] [Presentation]	Michelle Koutnik
11:30	Control of the width of West Antarctic ice streams by internal melting in the ice sheet near the margins [Abstract] [Presentation]	Thibaut Perol
11:45	A viscoelastic flowline model applied to tidal forcing of Bindschadler Ice Stream, Antarctica [Abstract] [Presentation]	Ryan Walker
12:00	Basal Crevasses on the Larsen C ice shelf: Implications for ice shelf stability [Abstract] [Presentation]	Dan McGrath

12:15	Panel	
12:30	Lunch /closing remarks	
2:00	Adjourn	

Poster Session (Wednesday, September 21)

	Topic	Lead Author
	History of the Ross Sea ice sheet based on glacial and lake records from Marshall Valley, Antarctica [Abstract]	Stephanie Allard
	Long-term Glacial History of the Southern Ross Sea Embayment [Abstract]	Ann Bauer
	Temporal Reduction of the ECSU Ice Shelf in Pine Island Bay Antarctica: 1972 – 2003 [Abstract]	Ya'Shonti Bridgers
	Surface Morphology Variations over Dome A due to Ice Sheet Bed–Surface–Atmosphere Interaction [Abstract]	Indrani Das
	Annual Layers and Irregular Stratigraphy: Electrical Measurements of the WAIS Divide Ice Core [Abstract]	T.J. Fudge
	How might the ocean react to loss of the WAIS? [Abstract]	Jeremy Fyke
	Subglacial Lake Whillans: A Shallow Active Reservoir Beneath a West Antarctic Ice Stream [Abstract]	Huw Horgan

	New radiocarbon dates from glacial deposits in Miers Valley constrain the past behavior of the Antarctic Ice Sheet [Abstract]	Tobias Koffman
	JPL/UCI Symposium on ISSM (Ice Sheet System Model) Public domain release [Abstract]	Eric Larour
	Snowfall, Redistribution, and Accumulation over Antarctic Sea Ice [Abstract]	Katherine Leonard
	Upper Mantle Structure Beneath the Whitmore Mountains, West Antarctic Rift System, and Marie Byrd Land from Body-Wave Tomography [Abstract]	Andrew Lloyd
	Viscous buckling on the grounding line [Abstract]	Douglas MacAyeal
	The SeaRISE–Antarctica Experiments with PISM [Abstract]	Maria Martin
	Basal Crevasses on the Larsen C ice shelf: Implications for ice shelf stability [Abstract]	Daniel McGrath
	The State of Sub-meter Commercial Satellite Imagery for the Antarctic, the Arctic and the West Antarctic Ice Sheet [Abstract]	Paul Morin
	Characterizing ICESat-2's response to snow and ice surfaces; theory and experiment [Abstract]	Mahsa Sadat Moussavi
	Subglacial bathymetry beneath the Pine Island Glacier ice shelf from airborne gravity, constrained by autonomous underwater vehicle data [Abstract]	Atsuhiko Muto

	Using High-Resolution Commercial Satellite Imagery to Advance West Antarctic Ice Sheet Research Goals [Abstract]	Claire Porter
	Continuing the Whillans Ice Stream subglacial lake record with GPS [Abstract]	Matthew Siegfried
	Glacial-Interglacial History of the Transantarctic Mountains and the Southern Ross Sea Embayment [Abstract]	Perry Spector
	Hosting a PolarTREC Teacher: A Method to Facilitate Antarctic Outreach and Dissemination of Research [Abstract]	Lesley Urasky
	Starting and stopping basal sliding on ice streams: New insights from Whillans Ice Plain, West Antarctica [Abstract]	Jacob Walter
	Spatial and temporal isotopic patterns across the West Antarctic Ice Sheet Divide from five new snowpits and firn cores [Abstract]	Jessica Williams
	Repeating Ruptures at David Glacier Modified by Tidal Influences [Abstract]	Lucas Zoet

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