

WAIS 2016 Agenda (as of 9/29/16)

Held at Algonkian Regional Park -- in The Woodlands at Algonkian conference center
47001 Fairway Drive, Sterling, VA

Monday, October 3

Time	Topic	
4:00pm to 8:00pm	Registration: pick up badges	Algonkian Regional Park - Cottage 7
4:00pm to 7:00pm	Poster set up	The Woodlands at Algonkian - Fairfax room
4:30 to 6:30pm	WAIS Science Steering Group Meeting	QuarterMaster's Lodge
7:00 to 9:00	Informal pizza & salad dinner / icebreaker Please bring cash to contribute to the food and drink Presenters - upload talks (7p-9p) with Allen Pope or use Dropbox	Quartermasters Lodge

Tuesday, October 4

Time	Topic	Speaker
7:30-8:15am	Breakfast at respective lodging sites (hotels)	
8:15 to 8:25	Arrive at Algonkian Regional Park, The Woodlands at Algonkian Pick up badges	Loudon Room
8:30am to 8:40	Welcome and logistics Ted Scambos	Loudon Room
Session 1	Ross Ice Shelf and Feeder Glaciers 1 Session Chair: Robin Bell	
8:40 to 9:45 4 talks (15 min + 1 min	Aerogeophysical surveys of the Ross Ice Shelf: results from the ROSETTA-Ice project	Tinto 233

transition)	[Abstract] [Presentation]	
	Radar polarimetry at Crary Ice Rise, Antarctica, reveals details of ice-flow reorganization over the last millennium [Abstract] [Presentation]	Martin 220
	Evolution of Roosevelt Island revisited [Abstract] [Presentation]	Conway 248
	Complex post-LGM ice sheet retreat history in Ross Sea: Changing Controls on Marine Ice Sheet Stability [Abstract] [Presentation]	Anderson 239
9:45 to 9:55	Open discussion	
9:55 to 10:10	Coffee break (15 min to include poster set up) Poster set up (Fairfax Room)	
Session 2	Wind and Waves: The Climate and Ocean of West Antarctica Session Chair: David Vaughan	
10:10 to 11:45 6 talks (15 min + 1 min transition)	Coastal climate of West Antarctica resolved by high-resolution climate modeling [Abstract] [Presentation]	Lenaerts 271
	Reconstructing 250 years of snow accumulation over West Antarctica [Abstract] [Presentation]	Medley 268
	Rapid response of West Antarctic ice shelves to El Niño and La Niña [Abstract]	Paolo 250
	Ocean temperature thresholds for Last Interglacial West Antarctic Ice Sheet collapse [Abstract] [Presentation]	Sutter 241
	Uncertainty in Antarctic climate change projections and the pivotal role of sea ice [Abstract]	Schneider 230
	Nature playing tricks: The big West Antarctic melt event of January 2016 [Abstract]	Nicolas 223

11:45 to 11:55	Open discussion	
11:55 to 12:05	Break	
Session 3	Brief poster introductions (optional)	
12:05 to 12:40	Poster presenters can introduce their posters briefly (more info to come)	
12:40 to 2:00	Lunch	Loudon Room
Session 4	Ross Ice Shelf and Feeder Glaciers 2, Lonely: Life in Antarctica Session Chair: Erin Pettit	
2:00 to 3:20 5 talks (15 min + 1 min transition)	Surface and basal properties and structure of the Ross Ice Shelf, Antarctica [Abstract] [Presentation]	Das 265
	Concentrated Subglacial Drainage Across the Grounding Zone of Kamb Ice Stream [Abstract]	Horgan 245
	Melting ice enhances coastal biological productivity [Abstract] [Presentation]	Yager 266
	Looking at Antarctic subglacial environments through a microbial lens [Abstract] [Presentation]	Mikucki 261
	WISSARD's world beneath the WAIS: There's more going on at the Ross Sea grounding line than you may think [Abstract] [Presentation]	Scherer 282
3:25 to 3:35	Open discussion	
3:35 to 3:45	Coffee break	
Session 5	Models Great and Small Session Chair: Byron Parizek	
3:45 to 5:05 5 talks (15 min + 1 min transition)	Experimental Evidence for Healing at the Bases of Ice Streams [Abstract] [Presentation]	Zoet 218
	Drainage mass balance constraints on tidal modulation of ice stream sliding	Creyts 270

	[Abstract]	
	Grounding line advance caused by ice-shelf grounding in the Weddell Sea, West Antarctica [Abstract] [Presentation]	Kingslake 242
	Widespread and rapid changes in flow of the Antarctic Ice Sheet in response to thinning ice shelves [Abstract] [Presentation]	Gudmundsson 283
	The effect of ice shelves on the ice flux at the grounding line and implications for marine ice sheet stability [Abstract]	Haseloff 228
5:05 to 5:10	Quick Break	
5:10 to 6:45	Poster Session (see last 2 pages) Presenters - upload and test talks Get drinks from golf pro shop	Fairfax Room
7:00 to 8:30	Dinner	Loudon Room

Wednesday, October 5

7:00am to 8:15am	Breakfast at your lodging	
8:15 to 8:25	Arrive to The Woodlands at Algonkian	Loudon Room
Session 6	Ice on the Run:Thwaites and Peninsula 1 Session Chair: Knut Christianson	
8:30 to 10:05 6 talks (15 min + 1 min transition)	Geoengineering Ice Streams with Artificial Sills [Abstract] [Presentation]	Wolovick 226
	Predicting the sea-level contribution from WAIS: what will it take? [Abstract]	Arthern 224
	Ice-Cliff Failure via Retrogressive Slumping [Abstract]	Parizek 219

	Results of the GIMBLE aerogeophysical survey of coastal Marie Byrd Land [Abstract]	Young 257
	Changes in glacier dynamics after Ice Shelf Breakup in northern Antarctic Peninsula [Abstract] [Presentation]	Marinsek 281
	Four-decade record of pervasive grounding line retreat along the Bellingshausen margin of West Antarctica [Abstract] [Presentation]	Bingham 273
10:05 to 10:20	Open discussion	
10:20 to 10:30	Coffee break	
Session 7	Ice on the Run: Thwaites and Peninsula 2 Session Chair: Brooke Medley	
10:30 to 12:05 6 talks (15 min + 1 min transition)	The influence of short wavelength topography on WAIS glaciers [Abstract] [Presentation]	Vaughan 269
	Monitoring ice dynamics and mass balance of Totten Glacier and Denman Glacier, East Antarctica for the past decades [Abstract] [Presentation]	Li 260
	Fast-ice/ice-shelf interactions in the Larsen B embayment [Abstract] [Presentation]	Pettit 256
	Ocean driven glacier retreat in the Antarctic Peninsula [Abstract] [Presentation]	Cook, presented by D. Vaughan 249
	Assessing the trajectory of ice sheet retreat in the Amundsen Sea -- a longer-term perspective [Abstract]	J. Smith 240
	Upper-crustal structures beneath Thwaites Glacier revealed by active-source seismic and aerogravity data [Abstract] [Presentation]	Muto 222

12:05 to 12:15	Open discussion	
12:15 to 12:30	NASA - views from HQ [Presentation]	Tom Wagner
12:30 to 1:40	Lunch	Loudon Room
Session 8	How Much How Fast discussions Sessions Chairs: Ted Scambos and Robin Bell	
1:40 to 3:30	NASA, NSF, BAS/NERC PIs HMHF- Robin Bell [Presentation]	(HMHF?) Ted Scambos and Robin Bell BAS (David Vaughan et al.) NSF (Eric Saltzman, Paul Cutler et al.)
3:30 to 5:00	Free time	Mini golf, hiking, canoes, nature tours
5:00 to 6:30	Poster Session Presenters - upload and test talks Get drinks from golf pro shop	Fairfax Room
7:00 to 8:30	Dinner	Loudon Room

Thursday, October 6

7:00 to 8:15	Breakfast at your lodging, check out of your hotel/lodging	
8:15 to 8:25	Arrive to The Woodlands at Algonkian	Loudon Room
8:30 to 8:35	Announcements	
Session 9	Water Beneath the Ice Session Chair: Tim Creyts	
8:30 to 10:25 7 talks (15 min + 1 min transition)	The effects of basal topography on subglacial water flow [Abstract] [Presentation]	Sergienko 238
	Tidal modulation of ice stream buttressing stress and subglacial meltwater production [Abstract] [Presentation]	Robel 244

	Pressure Changes in Subglacial Lakes [Abstract]	Lipovsky 232
	Hydrologic control of ice stream margin location [Abstract] [Presentation]	Riverman 267
	Efficient subglacial drainage induces rapid ice flow rearrangement on the Siple Coast [Abstract] [Presentation]	Elsworth 246
	Antarctic Ice Sheet retreat influenced by subglacial meltwater outbursts [Abstract] [Presentation]	Simkins 229
	Meltwater River on the Nansen Ice Shelf [Abstract]	Bell 278
10:25 to 10:35	Open discussion	
10:35 to 10:45	Coffee break	
Session 10	Tools of the Trade Session Chair: Helen Fricker	
10:45 to 12:05 5 talks (15 min + 1 min transition)	ICESat-2: An overview of science objectives, status, data products, and expected performance [Abstract] [Presentation]	Neumann 264
	Improved Ice-Fabric Inference Using Sonic Velocity and Thin-Section Data [Abstract] [Presentation]	Hay 247
	A framework for interpreting internal layer slopes as a record of past and present ice-sheet boundary conditions [Abstract] [Presentation]	Holschuh 225
	Using Repeating Glacial Earthquakes to Study Decadal-Scale Temporal Variability in Subglacial Conditions [Abstract] [Presentation]	Winberry 251
	Creep and stick-slip in subglacial granular beds forced by variations in water pressure [Abstract] [Presentation]	Damsgaard 274

12:05 to 12:15	Open discussion	
12:15 to 12:20	Wrap up	
12:20 to 1:30	Lunch	Loudon Room

Posters -- in Fairfax Room

Positive Feedback Between West Antarctic Ice Sheet (WAIS) Deglaciation, Decompression-melt-induced Volcanism and resultant Sea-level Rise [Abstract]	Behrendt 280
A New Digital Elevation Model for Hercules Dome, Antarctica, from CryoSat-2 Altimetry -- Toward Site Selection for the Next Antarctic Deep Ice Core [Abstract]	Christianson 221
Oceanic Forcing and Seismic Events near the Grounding Line of Beardmore Glacier, Antarctica [Abstract]	Cooley 277
WAIS retreat from the eastern Ross Sea continental shelf during Meltwater Pulse-1a and -1b: evidence from foraminiferal radiocarbon dates [Abstract]	DeCesare 275
Structure of Crary Ice Rise, Antarctica, revealed by ultra-high frequency radio echo sounding [Abstract]	T. Hillebrand 235
Does Byrd Glacier buttress the Ross Ice Shelf? [Publication]	Hughes 276
Radiocarbon chronology of the local Last Glacial Maximum and subsequent recession alongside Hatherton Glacier, Antarctica [Abstract]	C. King 231
Evidence for a palaeo-subglacial lake in Pine Island Bay, Antarctica [Abstract]	Kuhn 237
Experimental results with phase-sensitive radar at WAIS Divide [Abstract]	Lok 262
The UK Antarctic Seismic and GNSS Network (UKANET):	O'Donnell

Probing crustal and upper mantle structure in the southern Antarctic Peninsula and Ellsworth Land to constrain models of Glacial Isostatic Adjustment [Abstract]	236
Effects of Tides on Ice Sheet Marine Margins: New High-Resolution Models for Greenland and the Antarctic Peninsula [Abstract]	Padman 259
Modeling past and future variations of the Antarctic Ice Sheet with a coupled ice-Earth-sea level model [Abstract]	Pollard 227
Potential Controls on a Rapidly Propagating Rift on the Larsen C Ice Shelf, Antarctica [Abstract]	Pope 253
Detection of variability in surface processes with GPS interferometric reflectometry: application on Whillans Ice Plain [Abstract]	Siegfried 263
Deformation of the WAIS Divide Borehole: The Role of Ice Microstructure and Impurities [Abstract]	Sinkler 272
Variability of physical parameters influencing the bloom of the most productive Antarctic coastal polynya (Amundsen Sea Polynya) [Abstract]	St-Laurent 255
Crustal motion measurements from the POLENET Antarctic Network: comparisons with glacial isostatic adjustment models [Abstract]	Wilson 258