

NSF Workshop: How Stable is the Greenland Ice Sheet?

Location: Workshop held at the Teddy Roosevelt Inaugural Site, 641 Delaware Avenue Buffalo, NY 14202

Sunday Sept 10	
3:00-4:00	Free tour of venue*
4:00-6:00	Icebreaker
6:00	Dinner on your own

* tour of Teddy Roosevelt Inaugural Site (<https://www.trsite.org/>); restored mansion, history of Buffalo, the assassination of McKinley and inauguration of TR (\$10 value)

Monday Sept 11		
8:00-9:00	sign in, load presentation files*, coffee/tea	
9:00-9:15	Welcome and introduction	Jason Briner/Steering Committee
9:15-9:45	Direct constraints about the Greenland Ice Sheet Stability from Cosmogenic Nuclide Analyses of the GISP2 bedrock core and 40Ar/38Ar-dating of basal ice of the GRIP ice core	Joerg Schaefer
9:45-10:05	Deciphering the history and processes of Greenland's Ice Sheet(s) over thousands to millions of years using cosmogenic nuclides	Paul Bierman
10:05-10:30	History from the dirt	Ole Bennike
10:30-11:00	coffee break	
11:00-11:30	Studying the Greenland Ice Sheet: Implications for climate past and present	Dorthe Dahl Jensen (KEYNOTE)
11:30-12:00	Discussion	Michael Bender
12:00-1:00	lunch (on site)	
1:00-1:20	Reconstructing the response of the south Greenland Icesheet (sGIS) to climate using marine sediments.	Robert Hatfield/Joe Stoner
1:20-1:25	Greenland Ice Sheet History from NW Greenland Margin Trough Mouth Fans	Anne Jennings
1:25-1:30	Using cosmogenic isotopes to reconstruct Greenland's minimum Holocene ice extent	Nicolás Young
1:30-1:35	A case for understanding Greenland Ice Sheet stability	Meredith Kelly
1:35-1:40	Discontinuous pre-glacial regolith preserved in at least three Greenland Ice Sheet locations	Joseph Graly
1:40-1:45	Past climates along the Greenland Ice Sheet margin: Essential inputs for assessing ice sheet stability	Yarrow Axford
1:45-1:50	Holocene climate reconstruction from Greenland ice cores: A data assimilation approach to forcing paleo ice-sheet models	Jessica Badgeley
1:50-1:55	Sampling Basal Ice Units in Greenland	Robin Bell
1:55-2:00	Does the Laurentide Ice Sheet ever disappear? CRN data constrain the stability of the Barnes Ice Cap	Gifford Miller
2:00-2:30	Discussion	Joerg Schaefer
2:30-3:00	coffee break	
3:00-3:30	Translating Climate Forcing to Ice Sheet Response	Jeremy Fyke (KEYNOTE)
3:30-3:35	Data-model integration for ice sheets	Andreas Born
3:35-3:40	Ice on Greenland during Eocene-Oligocene transition	Petra Langebroek
3:40-3:45	Constraining and understanding the deglacial history of the Greenland ice sheet	Glenn Milne
3:45-3:50	Coupled Long-Term Evolution of Climate and the Greenland Ice Sheet During the Last Interglacial	Bette Otto-Bliesner
3:50-4:50	Discussion	Richard Alley
4:50-5:00	Day 1 wrap up	Jason Briner/Steering Committee
5:00-6:00	Happy Hour (on site)	
7:00-10:00	Evening program, Big Ditch, 55 E Huron St, Buffalo, NY	

* presentation loading (power point presented on a mac) 8:00-8:45

Tuesday Sept 12		
8:00-9:00	load presentation files, coffee/tea	
9:00-9:15	opening remarks	Jason Briner/Steering Committee
9:15-9:45	Stability of the Greenland ice sheet: insights from ice sheet model intercomparison projects	Sophie Nowicki (KEYNOTE)
9:45-9:50	Modeling the response of Northwest Greenland to enhanced ocean thermal forcing and subglacial discharge	Mathieu Morlighem
9:50-9:55	Climatic controls on the initiation and persistence of ice in Greenland during the Pleistocene	Benjamin Keisling
9:55-10:00	Comparison of Transient Simulations of the Interglacial Climate Evolution over the Greenland in a Coupled Global Climate Model-the Holocene vs. the Eemian	Feng He
10:00-10:05	Dynamic response of Northern Greenland outlets glaciers to ice tongue loss and calving front retreat	Rachel Carr
10:05-10:10	Beyond the Ice Sheet (In)Stability Binary	Alexander Robel
10:10-10:15	GreenTrACS In Situ Surface Mass Balance Measurements from the Western Greenland Percolation Zone	Erich Osteberg
10:15-10:45	coffee break	
10:45-11:00	Greenland Ice Mapping Project: Measuring rapid ice flow	Ian Joughin
11:00-11:15	Ice Flow and Ice Sheet Stability in Greenland	Mark Fahnestock
11:15-12:00	Discussion	Kristin Poinar
12:00-1:00	lunch (on site)	
1:00-1:10	Geology and Ice Sheet Dynamics in Greenland	Beata Csatho
1:10-1:15	Seismic constraints on the crust and upper-mantle structure of Greenland	Meredith Nettles
1:15-1:20	3D image of the Greenland lithosphere using ambient seismic noise	Aurelien Mordret
1:20-1:25	Ice-sheet/lithosphere interactions and Greenland ice-sheet stability—ways forward	Richard Alley
1:25-1:30	"NEGIS: Tectonic setting, basal hydrology and surface features"	Sridhar Anandakrishnan
1:35-1:40	Radiostratigraphy of the Greenland Ice Sheet and its potential constraints on millennial-scale ice-sheet stability	Joe MacGregor
1:40-1:45	Joint Science-Technology Planning for Greenland by the U.S. Community: Elements of the U.S. Ice Drilling Program Long Range Science Plan	Mary Albert
1:45-1:50	IDDO Subglacial Sampling Drill Systems: Capabilities and Results from Initial Field Seasons	Tanner Kuhl
1:50-2:05	Acceleration of Greenland Ice Sheet's Sliding Motion in Response to Surface Meltwater Input	Joel Harper
2:05-2:10	Greenland firn aquifers: Remote sensing, field measurements, and modeling	Richard Forster
2:10-2:15	Using Radar Sounding to Constrain Temporal Changes in Subglacial Hydrology across the Greenland Ice Sheet	Winnie Chu
2:15-2:20	Greenland's slippery slope: examining subglacial hydrology development driven by high-elevation melt input variability.	Christine Dow
2:20-3:00	Discussion	Beata Csatho
3:00-3:30	coffee break	
3:30-4:15	break out groups	All
4:15-4:45	break out group presentations	
4:45-5:00	Wrap up, moving forward	Jason Briner/Steering Committee
5:00-6:00	Happy Hour (on site)	
6:00	Dinner on your own	

End of Workshop