

AGENDA
2019 Interdisciplinary Antarctic Earth Sciences Conference

Saturday, Oct. 12				
4:00 pm		Earliest possible check in at Camp Cedar Glen		
5:00	8:00	Badge pick up @ Camp Cedar Glen, dinner and social at Julian Brewing Co. (Participants pay) Rides available. See Christine Kassab to load Sunday presentations.		
Sunday, Oct. 13				
start	End	notes	Title	Authors
8:00	9:00	Breakfast with Safety Orientation from Camp staff. Badge pick up and load talks in Griffin Hall		
9:00	9:10		Welcome	<u>Organizing Committee</u> : B. Adams, B. Goehring, J. Isbell, K. Licht, K. Panter, L. Stearns, K. Tinto
9:10	9:20		NSF remarks	Mike Jackson
9:20	9:35		Processes acting on Antarctic mantle: Implications for flexure and volcanism	James M.D. Day
9:35	9:50		Sub-Ice Thermal Anomaly Mapping Using Magnetotellurics. Considering the U.S. Great Basin as an Analog	Phil Wannamaker , G. Hill, V. Maris, J. Stodt, Y. Ogawa
9:50	10:10		INVITED: Pre-glacial and glacial uplift and incision history of the central Transantarctic Mountains reevaluated using multiple low-temperature thermochronometers	Stuart N. Thomson , P. W. Reiners, J. He, S. R. Hemming, K.J. Licht
10:10	10:25		New single-crystal age determinations for basement rocks in the Miller Range of the Ross Orogen, Central Transantarctic Mountains	K.W. Parsons, Willis Hames , S. Thomson
10:25	10:45	Break		
10:45	11:05		INVITED: Antarctic Subglacial Limnology: Background, Challenges, and Opportunities for Transformative Interdisciplinary Earth Science	John E. Dore , J. Priscu, SALSA Science Team
11:05	11:20		The history of subglacial waters from the Wilkes Basin, East Antarctica from subglacial precipitates	Terrence Blackburn , G.H. Edwards, M. Scudder, S. Tulaczyk, J.T. Babbe, J. Zachos, B. Hallet
11:20	11:35		Evidence for Pathways of Concentrated Submarine Groundwater Discharge in East Antarctica from Helicopter-Borne Electrical Resistivity Measurements	Slawek M. Tulaczyk , N. Foley, D. Grombacher, P. T. Doran, J. Mikucki, K. F. Myers, N. Foged, H. Dugan, E. Auken, R. Virginia
11:35	11:55		INVITED: East Antarctic Ice Sheet evolution and paleoclimate of the Aurora Subglacial Basin since the Late Cretaceous: Proposed geologic drilling on the Sabrina Coast continental shelf	Amelia Shevenell , S. Gulick, T. Naish, A. Leventer, T. Williams, T. van De Flierdt, S. Warny, L. Armand, R. Levy, A. Aitken, G. Uenzelmann-Neben, R. McKay, J. Stoner, J. Biddle, A. Thompson
12:00	1:30	Lunch		
1:30	1:50		INVITED: Model-data integration to explore the influence of Transantarctic Mountain development on mid-Miocene climate and ice-sheet variability	Anna Ruth Halberstadt , H. Chorley, R. DeConto ¹ , R. Levy, T. Naish, E. Gasson, D. Kowalewski
1:50	2:05		What really happened in East Antarctica during the mid-Pliocene warm period?	Greg Balco
2:05	2:20		Extent and Age of Ross Sea drifts from the Last Two Glaciations, McMurdo Sound, Antarctica	Brenda Hall , G. Denton ¹ , S. Heath, G. Henderson, M. Jackson, T. Koffman, L. Mattas, M. Miles, T. Walther

2:20	2:35		Surface Changes at the Head of Law Glacier and the Interior EAIS during the last ~100, ~10,000, ~100,000 and ~0.5 million years	Michael Kaplan , K. Licht, G. Winckler, C. Kassab, J. Lamp, J. Schaefer, J. Graly
2:35	2:50		Early Holocene Retreat and Late Holocene Re-advance of the Grounding Line in the Ross Sea Sector	Sarah Neuhaus , S. Tulaczyk, N. Stansell, R. Scherer, R. Powell, J. Coenen
2:50	3:00	Break		
3:00	4:30		Public Understanding of Science: Challenges and Opportunities for Science Communication	Gale Sinatra
4:30	5:30		Posters in dining hall	
		Dinner		

Monday, Oct. 14				
8:00	9:00	Breakfast	Load presentations in Griffin Hall	
9:00	9:10		Housekeeping	
9:10	9:25		The Polar Rock Repository: An Earth Science Resource	Anne Grunow
9:25	9:45		INVITED: Identification of uninhabited surface soils in the Shackleton Glacier Valley	Nicholas Dragone , N. Fierer
9:45	10:00		Evolution of High-Latitude Early Mesozoic Vertebrates and their Paleoenvironments	Nathan D. Smith , P. J. Makovicky, J. A. McIntosh, C. A. Sidor, R. M. H. Smith, N. J. Tabor, M. R. Whitney, and Charles H Woolley
10:00	10:15		Cause and Effect: High-latitude floral transitions due to rapid global warming	Rudy Serbet , P. Ryberg, E. Taylor
10:15	10:30		Evaluating the significance of Permian-Triassic paleosols and floras from the Central Transantarctic Mountains, Antarctica	Neil Tabor , J. A. McIntosh, E.L. Gulbranson
10:30	10:45		Unanswered questions surrounding the end Cretaceous mass extinction in Antarctica	Tom Tobin , R.C. Mohr
10:45	11:05	Break		
11:05	11:20		Mapping Geothermal Heat Flux Using Permafrost Thickness Constrained by Airborne Electromagnetic Surveys on the Western Coast of Ross Island, Antarctica	Neil Foley , S. Tulaczyk, E. Auken, D. Grombacher, N. Foged
11:20	11:35		Continental Land Cover Mapping with High-Resolution Multispectral Data: Methods, Applications, and Community Benefits	Mark Salvatore , H. Eifert, B. Szutu, B. Spitzbart, H. Lynch, S. Jha
11:35	11:50		The Oregon State University Marine and Geology Repository: A New Resource for the Antarctic Research Community	Val Stanley , M. Cheseby, C. Fritz, A. Koppers, J. Stoner
12:00	1:30	Lunch		
1:30	2:45		Posters in dining hall with coffee/tea	
2:45	3:00		Early Miocene Volcanism, Upper Scott Glacier: Insights on Magma Origin and East Antarctic Ice Sheet Dynamics	Kurt S. Panter , J. L. Smellie
3:00	3:20		INVITED: The eruptive timescales of Mt. Waesche: Toward assessing West Antarctica Ice Sheet elevation during the last interglacial period	Matthew J. Zimmerer , C. Burrill, N. Iverson, R. P. Ackert Jr., N. W. Dunbar, W. C. McIntosh, S. Campbell
3:20	3:35		Volcanism in Marie Byrd Land, West Antarctica and the Volcanic Record of the West Antarctic Ice Sheet	Thomas I. Wilch , K. S. Panter, W. C. McIntosh
3:35	3:45	Discussion		
			Coffee/tea/snacks and time for informal discussion with colleagues	
	5:30	Dinner		

Tuesday, Oct. 15				
9:00	9:10		Housekeeping	
9:10	9:30		The Polar Geospatial Center – Products and Services	Cathleen Torres Parisian , P. Morin
9:30	9:45		Cosmogenic Nuclide Analysis of a Million-Year-Old Buried Ice Mass in Ong Valley, Antarctica	Marie Bergelin , J. Putkonen, G. Balco, D. Morgan
9:45	10:00		The DMC: ANTARCTICA project	Perry Spector , G. Balco
10:00	10:15		Geology beneath the Ross Ice Shelf, revealed with aerogeophysics	Kirsty Tinto , C. Siddoway, R. Bell, M. Tankersley, J. Norwine, Z. Krauss
10:15	10:30		Lithospheric structure and a new geothermal heat flux map of Antarctica determined by seismology	Weisen Shen , D. Wiens, A. Lloyd, A. Nyblade
10:30	10:45		Lithospheric thickness and upper mantle viscosity of Antarctica estimated from recent seismic models	Douglas A. Wiens , A J. Lloyd, W. Shen, A. Nyblade, R. C. Aster, T. Wilson
10:45	11:15		Discussion & Closing remarks	
12:00	1:00	Lunch		
Posters				
			Meteoric ¹⁰ Be: A Tracer for Physical and Chemical Subglacial Processes in East Antarctica	Eiríka Ö. Arnardóttir , J. Graly, K. Licht, M. Caffee
			Insights into earthquake initiation from ice stream stick-slip dynamics	Grace Barcheck , E. Brodsky, P. Fulton, M. King, M. Siegfried, S. Tulaczyk.
			Investigating Ultra-Low Velocity Zones in the Southern Hemisphere using an Antarctic Dataset	Samantha Hansen , S. Carson, E. Garnero, S. Yu, S. Rost
			South Polar Glaciation during the Late Paleozoic: Observations from the Shackleton Glacier Region, Transantarctic Mountains	Libby R.W. Ives , J. L. Isbell
			Using remote sensing to map Mt Acheron moraine structure, central Transantarctic Mountains, Antarctica	Christine Kassab , M. Salvatore, K. Licht
			Extending the Thinning Chronology of Marie Byrd Land using in situ Cosmogenic Carbon-14	Colby Lejeune , B. Goehring, G. Balco, J. Stone
			Surprises in the sediments collected from Mercer Subglacial Lake	Amy Leventer , B. Rosenheim and SALSAScience Team
			New Chronologies on the Sirius Group Deposits – Surface Exposure Ages from Bennett Platform, Transantarctic Mountains	Julia Lindow , M. D. Kurz, R. P. Ackert
			Relationships between the land-terminating Walcott and Howchin Glaciers and adjacent marine-grounded Ross Sea ice in the Royal Society Range, Antarctica	Maraina Miles , B. Hall, G. Denton
			Shallow radially anisotropic shear wave velocity structure beneath Thwaites Glacier and tectonic implications	Maeva Pourpoint , D. A. Wiens, Z. Zhou, W. Shen, R. C. Aster, A. A. Nyblade, T. J. Wilson
			Ancient ice potential source of paleo-proxies; Ong Valley, Antarctica	Jaakko Putokonen , M. Bergelin, G. Balco, D. Morgan
			Seismic evidence for pervasive surface fracturing near the grounding line of the Ross Ice Shelf	Em Schnorr , S. Schwartz, S. Tulaczyk, G. Barcheck, T. Paladino
			Geospatial comparison of meteorites recovered from the Miller Middle and Mare Meteoritic icefields, Transantarctic Mountains, Antarctica	P. W. Scholar, R. P. Harvey, J.M. Karner, John S. Schutt
			The Oregon State University Marine and Geology Repository: A New Resource for the Antarctic Research Community	Val Stanley , M. Cheseby, C. Fritz, A. Koppers, J. Stoner
			Late Holocene Deglaciation of the Southernmost Ross Sea	John Stone , J. Gombiner, J. Pelto B. Hall