



**AGU Chapman Conference on
EXPLORATION AND STUDY OF
ANTARCTIC SUBGLACIAL AQUATIC ENVIRONMENTS (SAE)**

**Baltimore, MD, USA
15-17, March 2010**

Time	Monday March 15	Tuesday March 16	Wednesday March 17
08.30. – 09.00	Coffee	Coffee	Coffee
	Introductions Session 1. SAE as Habitats for Life	Session. 3 Sedimentary Records	Session 5. SAE Project Updates
09.00-09.30	Introductions by Co-Chairs: Martin Siegert (UK) and Chuck Kennicutt (US)	3.1 Keynote, Michael Bentley (UK) (774090) Subglacial Lake Sedimentary Processes and Sediments: Potential Recorders of Past Climate and Ice Sheet Changes	5.1 Valery Lukin (RUS) (790556) Russian Plans/Activities for Drilling into and Sampling Subglacial Lake Vostok
09.30- 10.00	1.1 Keynote, Mark Skidmore (US) (788714) Microbial Communities in Antarctic Subglacial Aquatic Environments (SAE)	3.1 Keynote (cont.)	5.2 Neil Ross (UK) (787435) Subglacial Lake Ellsworth: its History, Recent Field Campaigns and Plans for its Exploration.
10.00-10.30	1.1 Keynote (cont.)	3.2 – Eugene Domack (US) (787536) Subglacial Lake Environment and Facies Revealed by Larsen B Ice Shelf Disintegration	5.3 WISSARD Slawek Tulaczyk (UC Santa Cruz) (786551) The Whillans Ice Stream Subglacial Access Research Drilling (WISSARD) Project: an Integrated Study of Marine Ice Sheet Stability and Subglacial Life Habitats in West Antarctica

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10.30-11.00	1.2 Jill Mikucki (US) SAE (787606) Blood Falls, Antarctica: Insights into Subglacial Microbial Energetics	3.3 – Slawek Tulaczyk (US) (799325) Formation and Preservation of Long-Term Paleoclimatic and Paleoenvironmental Records in Subglacial Lake	5.4 – Robin Bell (US) (799998) Melt and Freeze Couplet in Central East Antarctica
11.00-11.30	Break	Break	Break
	Introductions Session 1. SAE as Habitats for Life (cont.)	Session 4. SAE Technology Challenges	Session 5. SAE Project Updates (cont.)
11.30-12.00	1.3 – David Pearce (UK) (802774) The Search for Life in Former Subglacial Lake Hodgson, Antarctica	4.1 Keynote, Peter Doran (US) (781456) Environmental Protection and Stewardship of Subglacial Aquatic Environments.	5.5 – Reed Scherer (US) (787613) What Can Tiny Fossils Teach Us About WAIS History & Subglacial Processes?
12.00-12.30	1.4 – Jemma Wadham (UK) (784567) Examining the Potential for Methanogenesis in Antarctic Subglacial Aquatic Environments	4.1 Keynote (cont.)	5.6 Sun Bo (CHINA) (783170) Glaciological and Geophysical Studies in Dome A, East Antarctica
12.30-12.30	Lunch	Lunch	Lunch
13.30-14.30	Poster Session	Poster Session	Poster Session
	Session 2. SAE Hydrology and Ice Sheets Interactions	Session 4. SAE Technology Challenges (cont.)	Session 5. SAE Project Updates (cont.)
14.30-15.00	2.1 Keynote, David Marchant (US) Subglacial Floods (785500) The Geomorphic Signature of Subglacial Floods	4.2 Matthew Mowlem (UK) (788555) Probe Technologies for The Direct Measurement and Sampling of Subglacial Lake Ellsworth	5.7 Robert Bindschadler (US) (794141) Surprises Seen in the Sub-Ice Shelf Environment
15.00-15.30	2.1 Keynote (cont.)	4.3 David Blake (UK) (787425) The Development of a Hot-Water Drill to Access Sub-Glacial Lake Ellsworth	5.8 Christoph Mayer (GER) (787528) Subglacial Lake Regimes for Different Lake Categories

Time	Monday March 15	Tuesday March 16	Wednesday March 17
15.30 – 16.00	Break	Break	Break
	Session 2. SAE Hydrology and Ice Sheet Interactions (cont.)	Session 4. SAE Technology Challenges (cont.)	Session 6. General Discussion and Future Directions
16.00-16.30	2.2, Adrienne Block (US) (787671) The Role of Subglacial Lakes in the Onset and Maintenance of Recovery Ice Stream, East Antarctica	4.4 Michael Gerassimoff (US) (799480) UW-Wisconsin (ICDS) WISSARD Drilling Program: Environmental Stewardship, Engineering, and Scientific Objectives	6.1 Panel Discussion #1 – SAE Habitats, Hydrology and Ice sheet Interactions - Speakers from Day 1
16.30-17.00	2.3, Leigh Stearns (US) (787566) Subglacial Drainage Events Under Outlet Glacier End-members: Byrd Glacier and Whillans Ice Stream	4.5 – Bill Stone (US) (787392) ENDURANCE: Two Missions to Antarctica and Paths to Advanced Sub-Glacial Science Autonomy	6.2 Panel Discussion #2 - Sedimentary Records and Technological Challenges – Speakers from Day 2
17.00-17.30	2.4 – Timothy Creyts (US) (800002) Drainage of Subglacial Water Systems Beneath Ice Sheets	4.6 Alberto Behar (US) (801014) The Subglacial Lake Exploration Device (SLED) Camera	6.3 Panel Discussion #3 - Future Plans for SAE Exploration and Research - Speakers from Day 3
17:30-18.00	2.5 – Jacob Walter (US) (787310) How Well Do Subglacial Lakes Act as Hydraulic Jacks?	4.7 Ross Powell (US) (781228) Assessing Grounding Zones and Sub-Ice-Shelf Cavity Processes Using Direct Sampling and Robotic Instrumentation	6.4 General Discussion Concluding Remarks – Co-Conveners
19.00 -21.00	Dinner On your own	Chapman Conference Dinner (reservation/prepaid)	Dinner On your own