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LINKS

2006 WAIS Workshop Agenda

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| Wednesday, September 27, 2006 | | |
| 2:00 to 6:00 | Registration (Pack Hall) | Pack Hall |
| 6:00 | DINNER (Dining Hall) | Dining Hall |
| 7:00 | Munchie Reception (Pack Hall) | Pack Hall |
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| Thursday September 28, 2006 | | |
| 8:00 | BREAKFAST | Dining Hall |
| 8:00 | Registration | Pack Hall |
| 9:00 | Welcome and Agenda Review | Scott Hall |
| | <i>Topic #1. Up, Down and All Around – How is water moving under the ice sheet and what is its effect?</i> | |
| 9:15 | Bubbling beneath the ice streams: subglacial plumbing mapped from space [Abstract] [PDF (.1mb)] | Fricker |
| 9:30 | Finding subglacial water the "ICESat way" in rough terrain [Abstract] [PPT (2mb)] | Bindschadler |
| 9:45 | Towards repeat-track elevation rate estimates using ICESat data [Abstract] [PPT (4mb)] | B. Smith |
| 10:00 | Discovery of till deposition at the grounding line of Whillans Ice Stream and implications [Abstract] [contact sak@essc.psu.edu] | Anandakrishnan |
| 10:15 | BREAK (30 min.) | |

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| 10:45 | Radar Studies on Kamb Ice Stream [Abstract] [PDF (7mb)] | Pettersson |
| 11:00 | Geothermal controls on a pervasive water sheet at the head of Kamb Ice Stream, West Antarctica [Abstract] | Blankenship |
| 11:15 | Radar evidence for past melting and present water distribution beneath Rutford Ice Stream, West Antarctica [Abstract] [PPT (9mb)] | King |
| 11:30 | Thanks SO Much for ALL the Data: The Amundsen Sea Sector Data Set: Applications with UMISM: Where and How Much WATER? What WILL happen in the future? [Abstract] [PPT (6mb)] | Fastook |
| 11:45 | Poster Introductions (1–2 min. each) | |
| 12:15 | LUNCH (1 hr. 45min.) plus view posters | Dining Hall |
| | Topic #2. A Wider Shade of Paleo – How have expanding observations increased our knowledge of past West Antarctic size and behavior? | |
| 2:00 | The RABID Project: Attempts to drill to the bed of Rutford Ice Stream [Abstract] [PPT (29mb)] | A. Smith |
| 2:15 | Glacial History of the Ellsworth Mountains, Weddell Sea Embayment West Antarctica [Abstract] [PPT (2mb)] | Bentley |
| 2:30 | Post-LGM & Holocene accumulation rates in West Antarctica: steady-state or not? [Abstract] [PPT (21mb)] | Welch |
| 2:45 | Towards a suite of US ITASE West Antarctic paleoclimate records [Abstract] [PPT (4mb)] | Dixon |
| 3:00 | On the effects of ice divide motion on Raymond bumps [Abstract] [PDF (4mb)] | Martin |
| 3:15 | BREAK (30 min.) | |
| | Session #3. Accumulation | |
| 3:45 | Maybe the Siple Dome Ice Core Records Surging Ice Streams? [Abstract] | Taylor |
| 4:00 | Statistical properties of Antarctic ice cores [Abstract] [PPT (1mb)] | Steig |
| 4:15 | Basement control and history of ice-sheet expansion in the Amundsen Sea Embayment – First results of recent RV Polarstern and RRS James Clark Ross cruises [Abstract] [PPT (6mb)] | Gohl |
| 4:30 | Late Quaternary deglaciation in the Amundsen Sea sector of the West Antarctic ice sheet: Preliminary results from recent cruises of RRS James | J. Smith |

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| | Clark Ross and RV Polarstern [Abstract] [contact jaas@bas.ac.uk] | |
| 4:45 | Numerical modeling of ocean circulation over the continental shelf and beneath the ice shelves in the Amundsen Sea, Antarctica [Abstract] [PPT (5mb)] | Holland |
| 5:00 | Poster Viewing | |
| 6:00 | DINNER | Dining Hall |
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| Friday, September 29, 2006 | | |
| 8:00 | BREAKFAST | Dining Hall |
| | <i>Topic #3. Filling the Gap – How can observations better meet the needs of improved predictive West Antarctic models?</i> | |
| 9:00 | Above, below and within the ice: Polar technologies NASA and JPL are developing for Earth and Space | Behar |
| 9:15 | Radar Measurements and Results from the WAIS Core Site [Abstract] [PPT (21mb)] | Gogineni |
| 9:30 | Detection of in-situ ice fabric anisotropy using polarimetric radar method near the WAIS divide [Abstract] [PPT (8mb)] | Matsuoka |
| 9:45 | Modeling radar attenuation at Siple Dome using ice-core chemistry and temperature data [Abstract] [PPT (1mb)] | MacGregor |
| 10:00 | How is the Ice Stream C doing on a daily basis? [Abstract] [PPT (9mb)] | Tung |
| 10:15 | BREAK (45 min.) | |
| 11:00 | Basal Shear Stress for Pine Island and Thwaites glaciers, Antarctica [Abstract] [PPT (27mb)] | Joughin |
| 11:15 | Inversion of ice stream surface measurements for basal conditions [Abstract] [PPT (10mb)] | Sergienko |
| 11:30 | Resolution and informational aspects of surface inversion on ice streams [Abstract] [PPT (2mb)] | Gudmundsson |
| 11:45 | A high spatial resolution record of near-surface temperature over WAIS during the past 5 decades [Abstract] [PPT (2mb)] | Monaghan |
| 12:00 | Verifying thermocoupled ice sheet models: whence the warm spokes [Abstract] [PDF (4mb)] | Bueler |
| 12:15 | LUNCH (1 hr. 45 min.) | Dining Hall |
| 2:00 | Roosevelt Island – a good place for an ice core [Abstract] [PPT (3mb)] | Conway |

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| 2:15 | Calculating the Floating Fraction of Basal Ice Along Byrd Glacier, Antarctica, Using Only the Force Balance [Abstract] [PPT (2mb)] | Ashley |
| 2:30 | Calculating the Floating Fraction of Basal Ice Along Byrd Glacier, Antarctica, Using the Force Balance and the Mass Balance Connected by the Flow and Sliding Laws of Ice [Abstract] [PPT (2mb)] | Jones |
| 2:45 | Tracing past Antarctic ice flow paths and modern transport processes with TAM till [Abstract] [PPT (32mb)] | Licht |
| 3:00 | A DEM of West Antarctica from MODIS and ICESat -- Method, Accuracy, and Applications [Abstract] [PPT (35mb)] | Scambos |
| 3:15 | Recent observations show that WAIS is influenced by sea swell generated in tropics and in Northern hemisphere [Abstract] | MacAyeal |
| 3:30 | BREAK (45 min.) and Poster Viewing | |
| 4:15 | What have I learned? | Dahl Jensen |
| 4:30 | What have I learned? [PPT (16mb)] | Andrews |
| 4:45 | What have we learned? | |
| 6:00 | DINNER | Dining Hall |
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| Saturday, September 30, 2006 | | |
| 8:00 | BREAKFAST | Dining Hall |
| | Topic #4. Black on White – Joint Proposals, IPY, ASEP and Our Future | |
| 8:30 | Ocean–Ice Interaction in the Amundsen Sea: The Keystone of West Antarctic Stability [Abstract] [PPT (2mb)] | Bindschadler |
| 8:45 | Amundsen Sea Influence on the West Antarctic Ice Sheet [Abstract] [PPT (5mb)] | Jacobs |
| 9:00 | Flow dynamics of two Amundsen Sea Glaciers: Thwaites and Pine Island [Abstract] [PDF (1mb)] | Anandakrishnan |
| 9:15 | Deglaciation of the Amundsen Sea Embayment – the Prelude to Recent, Rapid Ice Retreat [Abstract] [PDF (17mb)] | Stone |
| 9:30 | Amundsen Sea Embayment Project: Glacial Dynamics of Thwaites Tributaries (GlaDTT) [PPT (.2mb)] | Tulaczyk |

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| 9:45 | Constraining the Mass–Balance Deficit of the Amundsen Coast's glaciers [Abstract] [PPT (11mb)] | Joughin |
| 10:00 | The Next Generation: A Community Ice Sheet Model for scientists and educators, with demonstration experiments in the Amundsen Sea Embayment region [PPT (.1mb)] | Johnson |
| 10:15 | Are we headed in the right direction? | Bindschadler |
| 10:45 | BREAK (30 min.) | |
| 11:15 | WAIS Program: Activities, Actions and Needs | Bindschadler |
| 11:15 | IPY Revision of Science Plan–committee needed | Bindschadler |
| 11:30 | IPY Education and Outreach–web and beyond | Comberiate |
| 11:45 | IPY Future WAIS workshops | Bindschadler |
| 12:00 | Adjorn | |
| 12:00 | LUNCH | Dining Hall |
| 1:00 | Depart for Mt. Rainier | |
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| | Posters | |
| | Surface exposure ages from the LGM trimline in the Ohio Range, Horlick Mountains [Abstract] | Ackert |
| | Communicating science to lay audiences | Andrews |
| | National Snow and Ice Data Center: Antarctic Data Management Support [Abstract] | Bauer |
| | LIMA: Progress on the Landsat Image Mosaic of Antarctica: an IPY Project [Abstract] | Bindschadler |
| | Why Don't they Match? The Evolution of Flow Stripes and Internal Layers on Kamb Ice Stream [Abstract] | Campbell |
| | Sea–swell interaction with ice shelves: Observations at a site on the Ross Ice Shelf and a model of swell–excited ice–shelf vibration [Abstract] [PDF (2mb)] | Cathles |

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| | Impacts of an accumulation hiatus on the physical properties of firn at a low-accumulation polar site [Abstract] | Courville |
| | What Gravity Can Tell Us About West Antarctica: A Close Look at Thwaites Glacier and a Plan for Future Holistic Studies [Abstract] | Diehl |
| | Basement control and history of ice-sheet expansion in the Amundsen Sea Embayment – First results of recent RV Polarstern and RRS James Clark Ross cruises [Abstract] | Gohl |
| | Crossing the "T" in Antarctica [Abstract] [JPG (3mb)] | Hamilton |
| | Aeromagnetic results from the Thwaites Glacier catchment, West Antarctica [Abstract] | Holt |
| | Analysis of Bed Properties on Kamb Ice Stream with Constant Midpoint Radar Profiles [Abstract] | Jacobel |
| | Surface exposure dating using cosmogenic isotopes: a field campaign in Marie Byrd Land and the Hudson Mountains [Abstract] [PDF (.1mb)] | Johnson |
| | Better physics using full momentum solver in 2D vertical slice domain, where does longitudinal stress really matter? Application to the Thwaites Glacier flowline [Abstract] [PDF (1mb)] | Kenneway |
| | The dynamic drift of mega-icebergs in the Ross Sea [Abstract] | Kim |
| | The delights of DELORES: the new B.A.S. DEep LOok Radio Echo Sounder [Abstract] | King |
| | Histories of Accumulation and Ice Dynamics from Radar Layers and Ice-Flow Inverse Methods [Abstract] [PDF (4mb)] | Koutnik |
| | Mapping the Antarctic's near-surface air temperature trends using satellite and in-situ observations | Mitchell |
| | Rebuilding glacial retreat histories using inverse methods and surface exposure age data [Abstract] | Todd |
| | A Two-Dimensional Coupled Model for Ice Shelf-Ocean Interaction [Abstract] | Walker |
| | Spatial variability in McMurdo Dry Valleys snow and firn – the role of local soil input [Abstract] | Williamson |
| | Grounding zone geometry of Thwaites, Pope and Smith Glaciers, Amundsen Sea Embayment [Abstract] | Young |

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