

Preliminary Program
63rd Eastern Snow Conference

Wednesday June 7th

- 19:00 Registration Begins, Ice Breaker Reception, Commercial Exhibits and
Poster Paper Set-up
- 20:30 ESC Executive Pre-Conference Meeting

Thursday June 8th

- 07:00 Attendees Breakfast
- 07:45 Registration and Poster Paper Set Up Continues
- 08:00 Welcome and Announcements

Session 1 - Snow and Climate I

- 08:10 *Twentieth century North American snow extent trends: climate change*
Allan Frei, Gavin Gong, David A. Robinson, Gwangyong Choi and Debjani
Ghatak
- 08:30 *Issues with identification of trends in 20th Century U.S. snowfall*
David A. Robinson, Kenneth Kunkel, Michael Palecki, Kenneth Hubbard,
David Easterling, Kelly Redmond & Mathieu Gerbush
- 08:50 *Date of Snow Disappearance in the Arctic*
J. L. Foster, D. A. Robinson, D. K. Hall and Tom Estilow
- 09:10 *Synoptic-Scale Atmospheric Processes Associated with Snow Cover*
Ablation Events Across Eastern North American Stream Basins
Daniel J. Leathers and Gina Henderson
- 09:30 *Obtaining More Reliable Estimates of Arctic Precipitation by Adjusting*
for Gage Measurement Biases
David R. Legates, Daqing Yang, Tianna A. Bogart, Kathleen F. Freeman,
and Stephen M. Quiring

Session 2 – Snow and Climate Posters and Break

9:50 – 10:40

- 1 *Recent changes in the spatial patterns of North American winter duration*
as indicated by snow cover, surface temperature and upper atmospheric
circulation
Gwangyong Choi, David A. Robinson and Allan Frei
- 2 *Observed Differences between Snow Extent and Snow Depth Variability*
at Continental Scales
Yan Ge and Gavin Gong
- 3 *European snowcover extent variability: a climatology from 1967-2002*
Gina Henderson
- 4 *Climate variability, snowmelt distribution and effects on streamflow in a*
Cascades watershed
Anne J. Jefferson, Anne W. Nolin, Sarah L. Lewis, Meredith C. Payne, and
Gordon E. Grant

- 5 *A Synoptic-Scale Analysis of Snowfall-Producing Processes in the Northeastern United States and their Relative Contribution to Snow Depth*
Christopher C. Karmosky
- 6 *Characteristics and Trends in North American Snowfall from a Comprehensive Gridded Data Set* Daria B. Kluver
- 7 *Synoptic Patterns Associated with the Record Snowfall of 1960 in the Southern Appalachians*
Baker Perry and Charles E. Konrad II
- 8 *Influence of Snowfall Anomalies on Summer Precipitation in the Northern Great Plains of North America*
S. M. Quiring and D. B. Kluver
- 8 *Influence of Snowfall Anomalies on Summer Precipitation in the Northern Great Plains of North America*
Laura Read and Dr. Steven Neshyba
- 10 *An Improved Hemispheric Snow Cover Extent Climate Data Record*
David A. Robinson & Thomas Estilow
- 11 *Temporal Transferability of Snowpack Mass Loss Estimates at Six National Weather Service Meteorological Sites*
S.R. Fassnacht

Session 3 - Snow Climate II

- 10:40 *Coupling of a MM5 wind field library with a snow transport model*
Matthias Bernhardt, Günther Zängl, Glen E. Liston, Ulrich Strasser and Wolfram Mauser
- 11:00 *Sensitivity and Spatial Variability of Arctic Precipitation Bias Adjustments*
Tianna A. Bogart, David R. Legates and Daqing Yang

Session 4 - Snow Remote Sensing I

- 11:20 *Realization of Snow / Vegetation Interactions Using Field Spectroscopy and Automated Snow Depth Observations*
Thomas H. Painter and Noah P. Molotch
- 11:40 **Snow Spatial Scaling Analyses Using In Situ Measurements, Radiances, and Retrievals from CLPX-1**
Edward J Kim and Marco Tedesco
- 12:00 Announcements

12:00 – 13:00 Lunch

Session 5 - Snow Remote Sensing II

- 13:00 *The retrievals of snow cover extent and snow water equivalent from a blended passive microwave – interactive multi-sensor snow product*
Cezar Kongoli, Charles A. Dean, Sean R. Helfrich and Ralph R. Ferraro
- 13:20 *Assessing the Capability of Spaceborne Altimeter and Scatterometer Data for the Retrieval of Snow Water Equivalent in Canada*
Frédérique C. Pivot, Claude R. Duguay, Kyle C. McDonald, and Anne E. Walker
- 13:40 *Time series analysis and algorithm development for estimating SWE in Great Lakes Area using Passive Microwave*
Amir E Azar
- 14:00 *On the Evaluation of pan-Arctic SWE Estimates and Linkages with Observed River Discharge*
Michael A. Rawlins, Mark Fahnestock, Steve Froking, Cort J. Willmott and Charles J. Vorosmarty
- 14:20 *AMSR-E snow estimates for the Ob River*
Richard E.J. Kelly and James L. Foster

Session 6 - Poster Session 2 and Break

14:40-15:30

- 1 *Effectiveness of AMSR-E for Snowmelt Onset Detection, Upper Yukon River Basin, Canada*
Jeremy D. Apgar, Joan M. Ramage, Rose A. McKenney, Sarah E. Kopczynski, and Shannon L. Haight
- 2 *Combination of active and passive microwave to estimate snowpack properties in Great Lakes area*
Amir E Azar
- 3 *Enhancements and forthcoming developments to the Interactive Multisensor Snow and Ice Mapping System (IMS)*
Sean R. Helfrich, Donna McNamara, Bruce H. Ramsay and Tim Kasheta
- 4 *Monitoring the Surface of the Juneau Icefield Using Shape-from-Shading Algorithms Applied to Landsat Imager*
Linnea J. Koons and Bryan L. Isacks
- 5 *Inter-annual glacial and non-glacial hydrologic variability constrained by SSM/I, SAR and ground based observations, Matanuska Valley, Alaska*
Sarah E. Kopczynski, Joan M. Ramage, Edward B. Evenson and Daniel E. Lawson
- 6 *Reconstructing Snow Water Equivalent in the Rio Grande Headwaters Using Remotely Sensed Snow Cover Data and a Spatially Distributed Snowmelt Model*
Noah P. Molotch
- 7 *Spatial Variability of Snowmelt Timing from AMSR-E and SSM/I, Pelly River, Yukon Territory, Canada*

- Joan M. Ramage, Jeremy D. Apgar, Rose A. McKenney, Sarah E. Kopczynski, Wade Hanna and Shannon L. Haight
- 8 ***The Application of Multi-Scale Passive Microwave Data for Improving Snow Water Equivalent Retrieval in a Canadian Open Tundra Environment***
A. Rees, C. Derksen, M. English & A. Walker
- 9 ***Evaluation of snow errors in the MODIS snow data products***
George A. Riggs and Dorothy K. Hall
- 10 ***Validation, inter-comparison and development of electromagnetic models for passive microwave remote sensing of snow***
Marco Tedesco and Edward J Kim

Session 4 - Snow Pack Processes I

- 15:30 ***Snow cover patterns at different spatial scales: GEOtop model simulations and remote sensing observations***
S. Endrizzi, G. Bertoldi, M. Neteler and R. Rigon
- 15:50 ***Microstructural Analysis of Snow***
Ian Baker, Rachel Obbard, Katherine Sieg and Daniel Iliescu
- 16:10 ***Permeability Evolution of a Seasonal Snow Pack***
Mary R. Albert and Frank E. Perron, Jr
- 16:30 ***Capability of a water balance model with high temporal resolution for the modeling of ice- and snowmelt processes at high elevated sites***
Gernot R. Koboltschnig, Hubert Holzmann, Wolfgang Schoener and Massimiliano Zappa
- 16:50 ***The Influence of Snow-Soil Moisture Flux and Snow Pack Metamorphism in Late Winter and Early Spring***
Yi-Ching Chung and Anthony W. England
- 17:10 ***Distributed Snow Properties for Mobility Models***
Rae Melloh, Sally Shoop, Barry Coutermarsh, Rosa Affleck and Paul Richmond
- 17:30 ***Announcements and Adjourn***
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- 19:00 ***ESC Banquet***
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Friday June 9th

07:00 Attendees Breakfast
07:45 Poster Paper Set Up Continues
08:00 Announcements

Session 5 - Snow Pack Processes II

8:10 *Impact of Desert Dust on Meltrates and Runoff from Mountain Snowpacks*
Andrew P. Barrett, Thomas H. Painter and Christopher Landry
8:30 *Base cation solute enrichment of winter throughfall flux in a broadleaved deciduous forest in relation to meteorological conditions*
Delphis F. Levia
8:50 *Isotopic assessment of nitrate and sulfate mobility during winter in two adjacent watersheds in the Adirondack Mountains, New York*
John L. Campbell, Myron J. Mitchell and Bernhard Mayer

Session 6 - Glacial and Periglacial I

9:10 *Simulation and parameterization of basal ice formation*
Carl Egede Bøggild
9:30 *Impact of glacier recession on runoff from Alpine basins*
David N. Collins

Session 7 – Poster Session III and Break

9:50-10:40

- 1 *Periglacial Landforms of Southern New Jersey: Sites, Trails and Ancient Cultural Links*
Jack A. Cresson, Alan Mounier, Anthony Bonfiglio and Mark Demitroff
- 2 *Evidence of Cold Climate Slope Processes from the New Jersey Coastal Plain: Debris Flow Stratigraphy at Haines Corner, Camden County*
Wayne L. Newell presented by Mark Demitroff
- 3 *Treatise on the Preponderance of Designs over Historic and Measured Snowfalls or No Two Snowfalls are alike*
Mark Pilipski and Jacob D. Pilipski
- 4 *Active-Layer Thickness and Ground Surface Temperature in North-Central Alaska: Results from CALM's First Decade*
Melanie A. Schimek, Dmitry A. Streletskiy, Nikolay I. Shiklomanov, Frederick E. Nelson and Anna E. Klene
- 5 *Altitudinal Trends of Periglacial Landforms in the Appalachian Highlands, Eastern USA*
Michael T. Walegur, Kim Gregg and Frederick E. Nelson
- 6 *Snow Cover and Active-Layer Thickness on the Tibetan Plateau: A Case Study in 1997/98*
Meixue Yang Tandong Yao Frederick E. Nelson and Nikolay Shiklomanov

Session 8 - Glacial and Periglacial II

- 10:40 *The Equilibrium Flow and Mass Balance of the Taku Glacier, Alaska 1950-2005*
M.S. Pelto, G.W. Adema, M.J. Beedle, S.R. McGee, M.M. Miller, K.F. Sprenke, M.Lang
- 11:00 *An Embedded Sensor Network for Measuring Hydrometeorological Variability Within an Alpine Valley*
Robert Å. Hellström and Bryan G. Mark
- 11:20 *Canada-Wide Simulation of Lake Ice Cover Duration, Thickness, and Composition (1980-1996)*
Claude R. Duguay, Frédérique C. Pivot, Ross D. Brown, and Greg M. Flato
- 11:40 **The Extent of Periglacial Conditions within the Mid-Atlantic Region during the Last Ice Age**
Mary D. Lemcke
- 12:00 **Spungs, Cripples, Blue Holes and Savannahs: Wetlands of the Pine Barrens and their Cold-Climate Origin**
Mark Demitroff
- 12:20 Closing Remarks
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- 12:30 Field Trip
Cold, Dry and Windy, The Late-Pleistocene landscape of the Pine Barrens of southern New Jersey
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