

## Preliminary Program of Events - 59<sup>th</sup> Eastern Snow Conference

### Wednesday, June 5<sup>th</sup>

- 19:00 Ice Breaker, Registration Begins, Commercial Exhibits and Poster Paper Set-Up  
19:30 ESC Executive Pre-conference Meeting

### Thursday, June 6<sup>th</sup>

- 06:30 Attendees Buffet Breakfast  
07:30 Registration and Poster Paper Set-Up Continues  
08:00 Welcome and Announcements; Ken Rancourt

#### **ORAL SESSION 1: Remote Sensing**

Chair: John Pomeroy

- 08:10 **Invited Presentation:** "Cold Land Processes Mission: Implications for the Future of Snow Science"; *Donald Cline*, Snow Hydrologist, National Operational Hydrologic Remote Sensing Center, U. S. National Weather Service, NOAA.
- 08:50 Reduction of Cloud Obscuration in the MODIS Snow Data Product; *Riggs, G. and D. K. Hall*
- 09:10 Comparison of Satellite-Based Snow-Water-Equivalent Data with Modeled Snowpack Water Content for Open and Forested Areas; *Gidda, C., H. Whiteley, I. Rubinstein, and B. Corner*
- 09:30 **Poster Paper Highlights (2- min presentation by Author)**

Related Poster Papers:

Validation of Satellite Snow Cover Maps in the United States and Norway; *Hall, D. K., R. Solberg, J-G Winther, and G. A. Riggs*

Comparison of MODIS Snow Albedo Retrievals and In-Situ Observations during the 2000-2001 Snow Season; *Klein, A.G*

Estimating Fractional Snow-Cover from MODIS Using the Normalized Difference Snow Index (NDSI); *Salomonson, V.V., and I. Appel*

Remote Sensing of Snow Cover for Climate Monitoring in the Canadian Subarctic: A Comparison between AMMR-SSM/I and NOAA AVHRR Sensors; *Pivot, F.C., C.R. Duguay, R.D. Brown, and C. Kergomard*

Comparisons of MODIS and NOHRSC Snowcover Products for the Upper Rio Grande River Basin During the 2000-2001 Snow Season; *Barnett, A., and A. G. Klein*

- 09:45 **Coffee and Poster Session**

#### **ORAL SESSION 2: Soils, Forests, and Radiation**

Chair: Claude Duguay

- 10:20 Attenuation of Solar Radiation by the Snowpack in Dronning Maud Land; *Lavoie, C., H. B. Granberg, N. O'Neill*
- 10:40 Scaling of Seasonal snow Accumulation in Cold Climate Forests; *Pomeroy, J., and D. Gray*
- 11:00 Attenuation of Snowmelt Rate Following Balsam Fir Stands Recovery after Clearcutting, Montmorency Forest, Quebec; *Plamondon, A.P., D. Aube, D. Levesque, and M. Prevost*
- 11:20 All Seasons Near-Surface Soil Moisture; *Albert, M., and E. Perron*
- 11:40 **Poster Paper Highlights (2- min presentation by Author)**

Related Poster Papers:

Spatial Distribution of Snowmelt Infiltration Scaling Parameters in Relation to Topographic and Vegetative Indices Within a Subarctic Mountainous Watershed; *Janowicz, J.R., D.M. Gray, and J.W. Pomeroy*

Soil Frost Modeling in a Northern Hardwood Forest: Past and Present; *Hardy, J.P., R. Jordan, C. Driscoll, and T. Fahey*

Monitoring of Artificial Ice Layers Using a Fluorescent Tracer in a Natural Snow Cover; *Fortin, G., M. Bernier, G.H. Jones, and M. Schneebeli*

Simulation of Ice Phenology on Large Lakes in the Mackenzie River Basin (1960-2000); *Menard, P., C.R. Duguay, G.M. Flato, and W.R. Rouse*

A Parameterized Albedo/Reflectance Model of Littered Forest Floor Snow; *Melloh, R.A., Hardy, J.P., R. Bailey, and T. Hall*

Modeling of Snow-Soil Interaction in Conceptual Watershed Models; *Koren, V.*

Sensitivity of the Winter Hydrology of a Northern Climate Watershed to Variations in Incoming Solar Radiation Fluxes; *Voisin, N., H. Leighton, R. Soulis, J. Feng, F. Seglenieks*

Midwinter Snowpack and Temperature Relationships Across Treeline, Churchill, Canada; *Kershaw, G.P.*

Spatial Variability of Longwave and Shortwave Radiation Under Pine Canopies; *Pomeroy, J., J. Hardy, D. Marks, K. Elder, R. Melloh*

12:00 Lunch

**ORAL SESSION 3: Modeling**

Chair: Janet Hardy

13:30 Simulating Wind fields and Snow Redistribution Using Terrain-Based Parameters to Model Snow Accumulation and Melt over a Mountainous Watershed; *Winstral, A. and D. Marks*

- 13:50 Assessment and Intercomparison of Model and Passive Microwave Derived Snow Water Equivalent Data for North America; *Derksen, C., R. Brown, A. Walker, and B. Brasnett*
- 14:10 Boundary Layer Integration Approach to Advection of Sensible Heat to a Patchy Snow Cover; *Granger, R.J., and J. W. Pomeroy*
- 14:30 Improving the Representation of Snow Hydrology in Global and Regional Climate Models; *Marshall, S., and R. J. Oglesby*
- 14:50 **Poster Paper Highlights (2- min presentation by Author)**

Related Poster Papers:

Evaluation of the Cold Regions Hydrological Model in Open Environments for Snow-Covered through Post-Snowmelt Periods; *Hedstrom, N.R., R.J. Granger, J.W. Pomeroy, D.M. Gray, and T. Brown*

Development of a Gridded North American Snow Depth and Water Equivalent Dataset for GCM Validation – Results With an Enhanced Snowpack Model; *Brown, R., B. Brasnett, and D. Robinson*

Development and Testing of a Distributed Energy and Mass Balance Model for Supraglacial Snowpacks; *Fox, A. M., I.C. Willis, and N. S. Arnold*

A Physical Model for Quantifying Snow Depth and Density Changes for Northern Ecosystems; *Zhang, Y., W. Chen, and J. Cihlar*

Simulating Patterns of Snow Deposition, the Snow Cover Energy Balance, Melt, and Runoff over a Mountainous Watershed; *Marks, D., A. Winstral, and M. Seyfried*

Spatial and Temporal Data to Improve Snow Water Equivalent Mapping over a Large Alpine Domain; *Fassnacht, S. R., N.P. Molotch, R.C.Bales, and J. VanderKwaak*

Using SNTHERM to Simulate the Extreme Snow Melt Event that led to the 1997 Red River Floods; *Dyer, J. L.*

15:05 Coffee Break

**ORAL SESSION 4: Meteorology, Instrumentation, and Applications**

Chair: Mary Albert

- 15:20 Comparison of Runoff from Adjacent Watersheds with and without Ski Resort Development in Northern Vermont; *Denner, J. C., J.B. Shanley, and B. Wemple*
- 15:40 One for the History Books: The Winter of 2000-2001 in St. John's, Newfoundland; *Whiffen, B.*
- 16:00 Acquisition and Use of Snow Water Equivalent Data at the Northeast River Forecast Center; *Econopouly, T.W.*
- 16:20 The Hotplate Snowgauge; *Rasmussen, R. M., J. Hallett, R. Purcell, J. Cole, M. Tryhane*

16:40 Microwave Interaction with Snowpack at 2-18 GHz; *Koh, G., N. D. Mulherin, J. P. Hardy, R. E. Davis, and A. Twombly*

17:00 **Poster Paper Highlights (2- min presentation by Author)**

Related Poster Papers:

Field Comparisons of Gauge-Measured Frozen Precipitation Using Six Windshield Designs; *Duchon, C.E., C. G. Wade, and J.A. Cole*

Trial Study of the Judd Ultrasonic Snow Depth Sensor; *Cripe, D., and N. Doesken*

A Series of Misleading Snow Storms Across Southern Ontario During the Winter of 1999; *Fassnacht, S.R., F. Yusuf, R.C. Bales, and N. Kouwen*

Water Vapor Transport Associated with Lake-effect Snowfall over Southern Ontario; *Liu, A.Q.*

17:10 Announcements, and End of Thursday Sessions

18:00 Cash Bar; Poster Paper Session Continues

19:00 ESC Awards Banquet, Business Meeting,  
Evening Presentation by John Morton, former Olympic biathlete, biathlete coach, designer of nordic ski trails, author, and storyteller .

## Friday, June 7<sup>th</sup>

07:55 Announcements

### ORAL SESSION 5: Snowpack and Runoff Chemistry

Chair: Ross Brown

08:00 STUDENT PAPER AWARD Presentation (To Be Announced at the Banquet)

08:20 Analysis of Total Mercury Deposition in Snow, Mount McKinley, Alaska; *Torizzo, A.O., M. A. Mast, D. H. Campbell, and D.P. Krabbenhoft*

08:40 Winter Chemical Leaching from Deciduous Tree Branches as a Function of Branch Inclination Angle in Central Massachusetts; *Levia, D. F., and S. R. Herwitz*

09:00 Evaluating How Uncertainties in the Snowmelt Isotopic Composition Affect Hydrograph Separation; *Taylor, S., X. Feng, M. Williams, and J. McNamara*

09:20 Net Ecosystem Exchange of CO<sub>2</sub> During Snow Cover at a Peatland in Southern New Hampshire; *Bubier, J., P. Crill, and A. Mosedale*

09:40 **Poster Paper Highlights (2- min presentation by Author)**

Related Poster Papers:

Effects of Urbanization on Winter Baseflow Stream Chemistry in the Croton Watershed, New York; *Boyer, E.W., C-L. N. Lee, and J. M. Hassett*

Inert Gas Diffusion in Seasonal Snow; *Cathles, L.M., and M.R. Albert*

Linkages Between Snowpack  $d^{18}O$  Signatures and Winter Meteorological Conditions Within a Mountainous Basin; *Hopkinson, C., and S. Munro*

Mass Balance Assessment of the Taku Glacier, Alaska; *Pelto, M., G.W. Adema, S.R. McGee, M.M. Miller, K.F. Sprenke, and M. Lang*

Climatic Variation, Discharge, and Water Quality in an Alpine Glacierised Basin; *Collins, D.N.*

09:50 Coffee Break

**ORAL SESSION 6: Climatic Influences and Historical Perspectives**

Chair: Andrew Klein

10:10 Development of a Historical Ice Database for the Study of Climate Change in Canada; *Lenormand, F., C. Duguay, and R. Gauthier*

10:30 Historical Trend in Ice Thickness on the Piscataquis River, near Dover-Foxcroft, Central Maine; *Huntington, T. G.*

10:50 Patterns and Trends in Snowpack Water Equivalent at a Northern Vermont Site, 1960-2000; *Shanley, J. B., S.F. Clark, and J. C. Denner*

11:10 Effects of the El Nino/Southern Oscillation on Temperature, Precipitation, Snow covered Area, and Resulting Streamflow in the Upper Rio Grande River Basin; *Lee, S., A. Klein, T. Over*

11:30 Going...Going...Gone? Earths' Disappearing Tropical Glaciers; *Leffler, R.J.*

12:00 Closing Remarks, End of Oral Sessions

12:30 ESC Executive Post-Conference Meeting

13:30 Meet and Depart in Vans for Sleepers River Watershed Field Trip

04/15/2002