

Monday, October 18, 2010

Session Chairs: Knox Williams, Karl Birkeland, Ben Hatchett, Travis Feist

Instrumentation and Measurement / Snowpack Modelling / Snow Stability Tests / Structure, Variability, and Metamorphism

0800-0820	ANNOUNCEMENTS	
0820-0840	Simple and Reliable Methodology to Check Your Avalanche Beacon in the Sense of Useful Range, Multiple Burial, and the Strength of the Third Antenna	Markus Eck
0840-0900	Remote detection of snow avalanches in Switzerland using infrasound, geophones and Doppler radars	Lorenz Meier
0900-0920	Continuous monitoring of the seasonal snowpack evolution utilizing upward-looking GPR technology	Achim Heilig
0920-0940	Suitability of infra-red thermography to examining temperature profiles in snowpack	Paul Brusseau
0940-1000	Use of Thermal Photography to Measure Snowpack Properties	Cora Shea
1000-1030	COFFEE BREAK	
1030-1050	Field and Analytical Examination of Near-surface Facets	Andrew Slaughter
1050-1110	An explicit nonlinear numerical model of explosive airblast on snow and implications for avalanche control	Daniel Miller
1110-1130	Application of a numerical snowpack model to estimate full-depth avalanche danger	Hiroyuki Hirashima
1130-1150	Deformation Analysis of the Propagation Saw Test	Chris Borstad
1150-1210	The effect of changing slope angle on extended column test results	Karl Birkeland
1210-1340	LUNCH	
1340-1400	The SLAB test – The missing link in stability testing?	Kjetil Brattlien
1400-1420	Snow shear strength under different stress rates and avalanche release	Pavel Chernous
1420-1440	Experimental analysis of snowpack effects induced by blasts	Barbara Frigo
1440-1500	Spatial variability of surface hoar and near-surface facets at the mountain range scale	Matthew Borish
1500-1530	COFFEE BREAK	
1530-1550	Shear Deformation of Radiation Recrystallized Near Surface Facets	David Walters
1550-1610	Spatial variability of snow depth and weak layers in steep couloirs	Zach Guy
1610-1630	Spatial variations in snowslope stability: insights from observations during active control and rain-on-snow	Howard Conway
1630-1650	Slope-scale snowpack stability derived from multiple SnowMicroPen measurements and high-resolution terrestrial FMCW radar surveys	Christine Pielmeier
1650-1710	Characterizing microstructural arrangement and effective properties of dry snow: thermal conductivity	Richard Shertzger
1710	Instrumentation, Stability Tests, Modeling, Structure POSTER BREAK / BEER SOCIAL	

Tuesday, October 19, 2010

Session Chairs: Gary Murphy, Lynne Wolfe, Evan Salke

Avalanche Education and Risk Management / Avalanche Forecasting

0800-0820	ANNOUNCEMENTS	
0820-0840	The North American Public Avalanche Danger Scale	Grant Statham
0840-0900	On the practical knowledge about snow and avalanches -What are the improvements in the last century or do we still use well-known findings?	Peter Hoeller
0900-0920	Exploring the 'it depends' – How do mountain guides assess avalanche situations?	Pascal Haegeli
0920-0940	Pitfalls in development of avalanche accident risk reduction tools	Bob Uttl
0940-1000	What does your gut say and should you listen? The intuitive-analytical decision making continuum in mechanized ski guiding.	Iain Stewart-Patterson
1000-1030	COFFEE BREAK	
1030-1050	Should we stay or should we go now: assessing the effectiveness of an interactive avalanche terrain hazard and route-identification learning tool	Ranae Kowalczuk
1050-1110	Legal Issues in Avalanche Hazard Forecasting and Mitigation	John Fagan
1110-1130	Characterizing Wet Slab and Glide Slab Avalanche Occurrence along the Going To The Sun Highway	Erich Pietzsch
1130-1150	Predictors for deep slab avalanches. Are there any?	David Tracz
1150-1210	Which obs for which avalanche type?	Bruce Jamieson
1210-1340	LUNCH	
1340-1400	Predicting the avalanche danger level from field observations	Juerg Schweizer
1400-1420	Predicting Wet Snow Avalanches at the Arapahoe Basin Ski Area	Leif Borgeson
1420-1440	Experience Is Not Enough, Persistent Weak Layers in Western Canada 2007-2010	Karl Klassen
1440-1500	State of the Explosives Industry	Everett Clausen
1500-1600	Avalanche Education and Risk Management POSTER BREAK	
1600-1620	The Canadian Avalanche Centre's long-range forecasting programme	Ilya Storm
1620-1640	Web based display of avalanche events using google map application programming	Bob Comey
1640-1700	Snowpack properties of unstable wet snow slopes: observations from the Swiss Alps	Frank Techel

Thursday, October 21, 2010

Session Chairs: Brandon Schwartz, Cam Campbell, Lel Tone, Larry Heywood

Avalanche Forecasting / Fracture Mechanics and Avalanche Dynamics / Hazard Mitigation

0800-0820	ANNOUNCEMENTS	
0820-0840	Avalanche Hazard Management without Mitigation action	Jay Bright
0840-0900	Features ranking for avalanche forecasting: method and results for north-western Himalaya	B. Chandra
0900-0920	How snow fails	Ingrid Reiweger
0920-0940	New insights into skier-triggering of slab avalanches	Joachim Heierli
0940-1000	The effect of additional snow load on fracture propagation	Ron Simenhois
1000-1030	COFFEE BREAK	
1030-1050	Numerical Modeling of Fracture Propagation in Slabs	Chris Borstad
1050-1110	On the sustainability and arrest of weak layer fracture in whumpfs and avalanches	Dave Gauthier
1110-1130	A field method for measuring slab stiffness and weak layer fracture energy	Alec van Herwijner
1130-1150	Daisy Bell demonstration	Eric Lieberman
1150-1210	Daisy Bell demonstration	Eric Lieberman
1210-1340	LUNCH	
1340-1400	Post Control Avalanches: Definition, history, causes and the future	Michael Ferrari
1400-1420	I-90 Snoqualmie Pass Project: Evolution of an Interstate Highway Avalanche Program	Craig Wilbour
1420-1440	The BIG loss: JHSP's avalanche mitigation fatality and the resulting program changes	Mike Rheam
1440-1500	COFFEE BREAK	
1500-1530	Estimating Extreme Avalanche Runout for the Lizard Range, Fernie, British Columbia, Canada	Katherine Johnston
1530-1550	A light-weight splitting wedge – unique avalanche protection for a lattice tower on the Snettisham transmission line, Southeastern Alaska	Chris Wilbur
1550-1610	Avalanche hazard management at the Toba-Montrose Creek Hydroelectric Project, South Coast Range, British Columbia	Alan Jones
1610-1630	A new environment-friendly device for avalanche preventive release: O'Belx	Philippe Berthet-Rimbaud
1630-1650	A quick winter solution for hazard mitigation in the deposition area – Application in the Aosta Valley – NW Italian Alps	Valerio Segor
1650	Forecasting, Fracture Mechanics, Avalanche Dynamics POSTER BREAK / BEER SOCIAL	

Friday, October 22, 2010

Session Chairs: Bill Williamson, Kevin Quinn, Janet Kellam

Hazard Mitigation / Avalanche Accidents and Rescue / Case Studies

0800-0820	ANNOUNCEMENTS	
0820-0840	Safety concept for hazards from ice avalanches from the Whymper glacier in the Mont Blanc massif	Stefan Margreth
0840-0900	Fighting the worst case – avoiding loss of transmitting range and directional irritations for perpendicular buried transmitting beacons	Franz Kroell
0900-0920	Avalanche Rescue: The United States Experience, 1999/00 to 2008/09	Dale Atkins
0920-0940	Avalanche Risk Reduction in the Continental Climate: How to Implement an Effective Boot Packing Program	Karen Sahn
0940-1000	A comparison of avalanche survival patterns in Canada and Switzerland	Jeff Boyd
1000-1100	Hazard Mitigation, Case Studies, Accidents and Rescue POSTER BREAK	
1100-1120	Under the Radar: Exploiting "new school" media to capture unreported avalanche incidents	Bruce Edgerly
1120-1140	Snow Anchors for Belaying and Rescue	Don Bogie
1140-1200	Natural Avalanches in the Clark and Heather Drainages, Mt. Hood Oregon	Nicholi Stoyanoff
1200-1330	LUNCH	
1330-1350	2010 Saddle Peak Avalanche: Sidecountry challenges, misconceptions, and lessons	Doug Chabot
1350-1410	Playing CSI: A Case Study of the November 12, 2009 Bozeman, Montana Snow Event	Benjamin Hatchett
1410-1430	Anatomy of a post-control release: the Liberty Bowl event at Big Sky Resort	Scott Savage
1430-1450	The diversities of large slushflows illustrated by eight case studies	Erik Hestnes
1450-1510	Taking artificial release to Norway (again)	Njal Farestveit