

Programme

Monday 29. September

18:30 – 20:00 The welcome reception will be held at The Westfjords Heritage Museum. Invitation by Ísafjarðarbær

The Westfjords Heritage Museum is located in Neðstakaupstaður in Ísafjörður, and its exhibitions are in the Turnhúsið, which was built in 1784-1785. The museum's main is about fishing and its development in the Westfjords, as well as what the growing fishing industry meant for the people living there. In Neðstakaupstaður stands the oldest cluster of houses in the country, consisting of four houses that all belonged to Danish mer chants in the area.

Light refreshments will be served at the museum.

Tuesday 30. September

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08:00 Registration 08:30 Opening

09:00 Keynote 1 – Environment and Society

Designing for Safety and Liveability: Collaborative Approaches to Avalanche Defences in Iceland.

ÞÓRHILDUR ÞÓRHALLSDÓTTIR, LANDMÓTUN

09:30 - 10:00 Oral Sessions 1

09:30 O1.1 History of snow avalanches and settlements in hazard areas in Iceland.

HARPA GRÍMSDÓTTIR, ICELANDIC METEOROLOGICAL OFFICE

09:45 O1.2 Seven years of research on snow-avalanche in Nunavik, northern Quebec, Canada:

hazards and vulnerabilities.

ARMELLE DECAULNE, CNRS LETG

10:00 QA 10:15 Break

10:30 Keynote 2 – Risk management

Managing natural hazards risk: Perspectives from far-flung.

ANDREA TAURISANO, NVE

11:00 - 12:00 Oral Sessions 2

11:00 **O2.1** Development of a guidance for site-specific avalanche warning – needs, method, and content.

ANNA KARIN BERGBJØRN / PRISKA HELENE HILLER, NVE

11:15	O2.2	Towards an operational avalanche forecasting tool using RAMMS::Extended.
		CAM P. CAMPBELL, ALPINE SOLUTIONS
11:30	O2.3	Systems-Thinking Analysis of the Seyðisfjörður Landslide Programme: Understanding Feedback Control Mechanisms.
		SÓLVEIG THORVALDSDÓTTIR, UNIVERSITY OF ICELAND
11:45	O2.4	Temporary risk reduction methods in protected areas.
		ÓLIVER HILMARSSON, ICELANDIC METEOROLOGICAL OFFICE
12:00	QA	
12:15	Lunch	
13:15	Keyn	ote 3 – Planning, design, construction
		Avalanche and landslide protection measures in Iceland: 30 years of design innovations protecting ten
		Icelandic communities.
		KRISTÍN MARTHA HÁKONARDÓTTIR, THE MINISTRY OF THE ENVIRONMENT, ENERGY AND CLIMATE
13:45 - 15:00	Oral	Sessions 3
13:45	O3.1	Guidelines and digital toolboxes for mitigation measure planning and assessment from an Austrian Perspective.
		FELIX OESTERLE, AUSTRIAN RESEARCH CENTRE FOR FORESTS
14:00	O3.2	Numerical analysis of reinforced soil barriers subjected to avalanche dynamic loads.
		OLTION KORINI, GEOQUEST
14:15	03.3	Monitoring Umbrella Nets – A Full-Scale Test Site in Tirol.
		ENGELBERT GLEIRSCHER, BFW
14:30	03.4	HELIOPLANT® – PV structure in avalanche protection.
		THOMAS SÖNSER / ALEXANDER PLONER, I.N.N.
14:45	03.5	Preventive Avalanche Control on Arnøya – Securing Critical Infrastructure.
		THOMAS BERGER / SIIRI WICKSTRÖM/ SINDRE LINSTAD, MND FRANCE
15:00	QA	
15:15 - 15:45		x + Postersession 1
	P1.1	Avalanche control systems and traditional mitigation structures.
	71.4	INES WALTL, INAUEN SCHÄTTI AG
	P1.2	Avalanche Monitoring in Flateyri using Doppler Radar
	D1 2	LARS KRANGNES, CAUTUS GEO AS
	P1.3	Samuelsberg catching dam partial failure and rebuild – A case study
	D1 4	ÁRNI JÓNSSON, ORION CONSULTING SLF
	P1.4	Adapting and using active rigid modules in a passive way against avalanches
	D1 5	PHILIPPE BERTHET-RAMBAUD, ENGINEERISK
	P1.5	Detection of liquid water accumulations during snow block sliding experiments
	P1.6	JAMES GLOVER, UNIVERSITY OF APPLIED SCIENCES GRISONS Pacf cyclopela mitigation through photographic monel heating to induce controlled grown removal
	1 1.0	Roof avalanche mitigation through photovoltaic panel heating to induce controlled snow removal
15:45	WS1	JAMES GLOVER, UNIVERSITY OF APPLIED SCIENCES GRISONS The avalanche incidents 1995 documented through the camera
13.43	W 51	RAGNAR AXELSSON, RAX
16:15	WS2	Officers on duty during the avalanche incidents 1995.
10.13	11 02	RÖGNVALDUR ÓLAFSSON/HLYNUR SNORRASON, THE NATIONAL POLICE COMMISSIONERS OFFICE
16:45	WS3	A Historical Perspective: Events Leading Up to, During, and Following the 1995 Avalanches.
1∪.⊤J	1100	ÁRNI JÓNSSON, ORION CONSULTING SLF
17:15	End of	Tuesday program
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Programme (Continue)

Wednesday 1. October

09:00 – 17:30 – Field excursion / symposium tour

At 09:00 the buses will depart from the conference hall, heading first to Súðavík for a brief stop at the memorial site. From there, the tour continues to Flateyri, where we will observe the existing mitigation measures and ongoing construction projects.

A lunch break is planned at Café Gunna.

Afterward, we will travel to Bolungarvík to visit Iceland's highest catching dam. The final three stops of the day will be in Ísafjörður, where we will examine catching and deflecting dams. The tour is scheduled to conclude no later than 18:00.

Thursday 2. October

Time				
08:00	Venue	enue opens		
8:30 - 9:30	Oral	Sessions 4		
08:30	04.1	Are avalanche pressure requirements still necessary for the design of modern ropeways?		
		PHILIPPE BERTHET-RAMBAUD, ENGINEERISK		
08:45	O4.2	Mitigating the natural hazard risk in Longyearbyen, Svalbard		
		ÁRNI JÓNSSON, ORION CONSULTING SLF		
09:00	04.3	Swiss experience with direct avalanche protection measures on buildings		
		STEFAN MARGRETH, WSL INSTITUTE FOR SNOW AND AVALANCHE RESEARCH SLF		
09:15	04.4	Planning & structural limitations of RACS - making structures survive in avalanche release areas		
		MARTIN VENÅS, WYSSEN NORWAY		
09:30	QA			
09:45	Break			
10:00 - 11:30	Oral	Sessions 5		
10:00	05.1	Keeping the power on: Quantitative avalanche risk assessment and operational decision making for a		
		transmission in British Columbia, Canada		
		ALAN JONES, DYNAMIC AVALANCHE CONSULTING LTD		
10:15	O5.2	Comparing benefit-cost-analyses of snow avalanche mitigation measures obtained by two hazard and		
		risk analysis approaches		
		MICHAEL BRÜNDL, WSL INSTITUTE FOR SNOW AND AVALANCHE RESEARCH SLF		
10:30	05.3	Integral snow avalanche risk management for national roads in Norway		
		MARKUS ECKERSTORFER, NORWEGIAN PUBLIC ROADS ADMINISTRATION		
10:45	O5.4	The Pollfjellet powder snow avalanche: Building model scenarios for a mass dependent model and		
		mitigation Case study		
		HALLVARD SKAARE NORDBRØDEN, SKRED AS		
11:00	05.5	Risk management from natural hazards for the new European Road E10, Halogalandsveien		
		CHRISTIAN JAEDICKE, NORWEGIAN GEOTECHNICAL INSTITUTE		
11:15	O5.6	Land use and planning of settlements in hazard zones and under defense structures		
		MAGNI HREINN JÓNSSON, ICELANDIC MET OFFICE		

11:30	QA	
11:45	Lunch	
12:45	Keyno	ote 4 – Mitigation measures; simulations, experiments, experiences
		From granular mechanics to 3D modeling: Advancing avalanche hazard assessment and mitigation
		MICHAEL LUKAS KYBURZ, CHAIR OF ALPINE MASS MOVEMENTS, ETH ZÜRICH
13:15 - 14:15		
13:15	O6.1	Three-dimensional simulations of snow-avalanche flow for assessing the effectiveness of protections
		measures in the run-out zone
12.20	061	TÓMAS JÓHANNESSON, ICELANDIC METEOROLOGICAL OFFICE
13:30	O6.2	Turbulence-Based Modeling of Powder-Snow Avalanches and Air-Blast Pressures Using
		RAMMS::Extended
13:45	06.3	PERRY ANDERS BARTELT, RAMMS AG Large scale avalanche hazard indication modelling adapted for Iceland
13.43	00.5	YVES BÜHLER, WSL INSTITUTE FOR SNOW AND AVALANCHE RESEARCH SLF
14:00	O6.4	Bridging the Gap: Scenario-Based Avalanche Modeling vs. Back-Calculation of Events
11.00	00.1	LUKAS STOFFEL, WSL INSTITUTE FOR SNOW AND AVALANCHE RESEARCH SLF
14:15	QA	ECKIS STOTTEE, WISE INSTITUTE FOR SHOW IN INVIDENCE IE RESERVED SEE
14:30	Break	
14:45	Sponso	r session
15:00 - 15:45	Oral S	Sessions 7
15:00	O7.1	Towards a Physics-Based Quantification of Run-Up and Impact Pressure Using Numerical and
		Physical Experiments
		MICHAEL JOSEF KOHLER, WSL INSTITUTE FOR SNOW AND AVALANCHE RESEARCH SLF
15:15	O7.2	Use of OpenFOAM and $\mu(I)$ rheology in design of protective structures for avalanches for Flateyri.
		REYNIR LEVÍ GUÐMUNDSSON, VERKÍS
15:30	O7.3	Numerical simulation of slushflow and assessment of proposed protective measures in Patreksfjörður,
		Iceland.
15.45	0.4	RAGNAR LÁRUSSON, VERKÍS
15:45 16:00	QA Brook	x + Postersession 2
10.00	P2.1	Engineering Approaches to Avalanche Mitigation in Japan: Current Status, Challenges, and Future
	1 2.1	Perspectives.
		YUSUKE HARADA, CIVIL ENGINEERING RESEARCH INSTITUTE FOR COLD REGION
	P2.2	Snow net instrumentation at Snoqualmie Pass, Washington, USA.
		CHRIS WILBUR, WILBUR ENGINEERING, INC.
	P2.3	New experiments and measurments to improve operational practices for preventive avalanche
		triggering.
		PHILIPPE BERTHET-RAMBAUD, ENGINEERISK
	P2.4	Monitoring site Ranalt - Flexible barrier designed for catching avalanches exposed to an unexpected
		debris flow event.
		GERNOT STELZER, TRUMER SCHUTZBAUTEN GMBH
	P2.5	Snow fences on Eyrarfjall above Flateyri: A pilot study on avalanche risk reduction.
	De :	GÍSLI STEINN PÉTURSSON, VERKÍS
	P2.6	Development of a calculation method for flexible rockfall barriers under static and dynamic snow loads.
16.00	n • •	DENNIS GASTEIGER, GEOBRUGG AG
16:30		Thursday program
19:00	Dinner at Hótel Ísafjörður	

Friday 3. October

Time					
08:00	Venue o	e opens			
08:30 - 09:30	Oral S	1 Sessions 8			
08:30	O8.1	Artificial intelligence supported extra long-range Doppler radar: avalanche activity measurement and			
		RACS blasting verification in Evolène			
		MAXENCE CARREL, GEOPREVENT			
08:45	O8.2	Detailed, high temporal resolution snow surface monitoring for avalanche hazard management: A case study from a controlled avalanche release			
		PIA RUTTNER, WSL INSTITUTE FOR SNOW AND AVALANCHE RESEARCH SLF			
09:00	O8.3	Low-Cost Lidar Monitoring to Inform Planning and Implementation of Avalanche Mitigation			
		THOMAS GOELLES, UNIVERSITY OF GRAZ			
09:15	QA				
09:30	Break				
09:45 - 11:00	Oral S	Sessions 9			
09:45	09.1	Impact of Snow Depth Initialization on Avalanche Modeling: Comparing Station Data with			
		High-Resolution Measurements			
		JULIA GLAUS, WSL INSTITUTE FOR SNOW AND AVALANCHE RESEARCH SLF			
10:00	O9.2	Comparing simulated pressure profiles with measurements from a power line assembly at the Ryggfonn test site.			
		PETER GAUER, NORWEGIAN GEOTECHNICAL INSTITUTE			
10:15	09.3	Next-Generation Modular Avalanche Radar with Multi-Hazard Capabilities			
		SUSANNE WAHLEN, GRAVIMON LTD.			
10:30	O9.4	Development of snowsensors in Ísafjörður			
		ÖRN INGÓLFSSON / HARPA GRÍMSDÓTTIR, ICELANDIC METEOROLOGICAL OFFICE			
10:45	QA				
11:00	Break				
11:15 - 12:30					
11:15	010.1	Experiences in designing mitigation measures against slush flows			
		ELISE MORKEN, NORWEGIAN GEOTECHNICAL INSTITUTE			
11:30	O10.2	Slush Flows – A review of a poorly explored phenomenon and its protection measures			
		NADINE FEIGER, MOUNTAIN HAZARD ENGINEERING GMBH			
11:45	010.3	Advancing Snowdrift Forecasting with Physically-Based Snow Models and High-Resolution			
		Weather Data			
		SVEINN GAUTI EINARSSON, VEÐURVAKTIN			
12:00	O10.4	Can wind simulation help optimize function of snow avalanche mitigation measures?			
		ÁRNI JÓNSSON, ORION CONSULTING SLF			
12:15	QA				
12:30	Conference Closing				