



**ARCTIC
SAFETY
CENTRE**
AT THE UNIVERSITY
CENTRE IN SVALBARD

Arctic Safety Conference 2021 Program

Tuesday 09.11.21		
1500-1630	Registration	
Plenary		
1630-1730	Welcome to UNIS	<i>Jøran Moen</i>
	What is Arctic Safety Centre?	<i>Martin Indreiten, Eirik Albrechtsen</i>
	The longest march: Biomarkers of stress, appetite, and nutritional status during a 93-day unsupported solo crossing of Antarctica	<i>Bjørn Helge Johnsen</i>
Dinner		
1900-1930	Mingling	
1930-2030	Dining	
2030-2130	Entertainment	

Wednesday 10.11.21

Plenary

0900-0930	Learnings from the most ambitious environmental project in Norway. Planning the work and working the plan in Arctic conditions	<i>Ole Kristian Madsen, Pernille Meyer, Ove Haugen, Sverre Kvalheim, Gudmund Løvli</i>
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0930-0945	Break	
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Group Sessions

0945-1045	Session A: Risk governance of climate-related systemic risk in the Arctic: research at UNIS		Session B: Emergency preparedness and response	
	Handling uncertainty - a way to improve risk management in local avalanche warning systems	<i>Martin Indreiten, Eirik Albrechtsen</i>	Flying against the clock – risk management and resilience in Arctic search and rescue and casualty evacuation flights	<i>John Ash</i>
Developing a permafrost and meteorological climate change response system to build resilience in Arctic communities (PermaMeteoCommunity)	<i>Hanne Hvidtfeldt Christiansen, Marius Jonassen, Aleksey Shestov, Graham L. Gilbert, Knut Tveit, Arne Instanes, Einar Jensen, Kjersti Olsen-Ingerø</i>	Maritime Mass Rescue Operations in the Arctic	<i>Bjørn Ivar Kruke, Lise Berntsen Penne, Snorre Hagen, Espen Olsen</i>	
Uncertainty in risk-informed decision-making processes in snow avalanche risk management in the Arctic	<i>Martin Keng He, Eirik Albrechtsen</i>	Computer-assisted management training for professionals in High Arctic SAR -operations.	<i>Gunhild Sætren, Hege Christin Stenhammer, Natalia Andreassen, Odd Jarl Borch</i>	

1045-1115	Break	
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1115-1215	Session A: Risk governance of climate-related systemic risk in the Arctic: experience exchange		Session B: Building resilient Arctic communities	
	Local IoT-based landslide early warning system	<i>Ivan Depina</i>	Civic Organizing for Environmental Stewardship: A Program from the Institute for Civic Organizing Piloting in Three Arctic Communities	<i>Hannah Zimmerman, Nora Sweeney, Elliott Zornitsky</i>
Climate Change Impact on Rock Fall Risk – preliminary results from large-scale modelling in Switzerland	<i>Michael Bründl, Maria-Sophia Völk, Alice Zaugg, Gregor Ortner, Marc Christen</i>	The risk-based approach to dimensioning of Arctic rescue services – real and perceived emergency response in Greenland and Svalbard	<i>Bjørn Ivar Kruke, Jacob Taarup-Esbensen</i>	
Resilience-based monitoring of climate adaptation	<i>Knut Øien</i>			

1215-1315	Lunch	
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Wednesday 10.11.21

Group Sessions

		Session A: Women on Arctic Fieldwork	Session B: Technology performance in cold climate
1315-1500	Equality or health? A forced choice for many women	Karen Messing, Inger Jennings	Criteria-Based Risk Analysis of Wind Farms in Cold Climate Regions <i>Albara Mustafa, Abbas Barabadi</i>
	Making remote polar fieldwork more inclusive for women: Lessons from the Australian Antarctic Program	<i>Meredith Nash, Inger Jennings</i>	Windtech - A novel sensory device for cold climate regions risk management <i>Amir Leyli</i>
	Women in polar fieldwork - how small details make a big difference and why we should talk about it	<i>Verena Mohaupt</i>	Atmospheric icing as a hazard to unmanned aircraft applications <i>Richard Hann</i>
	Q/A	<i>Inger Jennings, Élise Devoie</i>	Resilience of Wind Farms in The Arctic: A Probabilistic Approach Using Bayesian Networks <i>Albara Mustafa, Abbas Barabadi</i>
			Sea spray icing estimation dependence on spray flux in Arctic-Norwegian waters <i>Sushmit Dhar, Eirik Mikal Samuelsen, Masoud Naseri, Kåre Edvardsen</i>
1500-1515	Break		
1515-1645	Safety in Field Operations		
	The role of experiential learning in safety awareness development among guides working in polar adventures tourism- case study on Arctic Nature Guides program on Svalbard	<i>Barbara Olga Horyn</i>	
	A resource perspective on Arctic field safety management	<i>Jacob Taarup-Esbensen</i>	
	SIOS's airborne remote sensing platforms for identifying surface crevasses in Svalbard for field safety	<i>Shridhar Jawak, Richard Hann, Veijo Pohjola, Agnar Sivertsen</i>	
	Arctic Heritage at Risk 2021: Safety, Analysis, Preparation and Response	<i>Bryan Lintott, Gareth Rees</i>	
Near miss incident (it's development and consequences) on a student free time trip to backcountry in Greenland	<i>Martin Kotal</i>		
1645-1700	Break		
Plenary			
1700-1730	TBA	<i>Faisal Khan</i>	
1800	Excursion		

Thursday 11.11.21

Group Sessions

		Session A: Risk management in changing Arctic conditions	Session B: Maritime operations in the Arctic
0900-1030	The influence of complex and changing Arctic conditions on historic waste disposal sites - a multi-criteria risk assessment	<i>Gijs D. Breedveld, Regula Frauenfelder, Unni Eidsvig, Christian Jaedicke, Ørjan Nerland, Kjersti Gisnås, Luca Piciullo, Gudny Okkenhaug</i>	Future Risk Pictures of the Northern Sea Route <i>Stig A. Johannessen, Ove T. Gudmestad</i>
	Gridded snow maps for Svalbard	<i>Heidi B. Strandén, Tuomo Saloranta, Jess Andersen</i>	Synergies between a Safe Arctic Ocean and a Safe Southern Ocean: Hazard Mitigation and Adaptation and the U.N. Southern Ocean Decade <i>Thomas Chen</i>
	Slushflow early warning in Arctic areas	<i>Monica Sund, Heidi A. Grønsten</i>	Can expedition cruise vessels be utilized in Arctic oil Spill Preparedness and Response? <i>Synnøve Lunde, Frigg Jørgensen, Jason Scott</i>
	Natural hazards in Svalbard settlements: a historical overview	<i>Christian Jaedicke, Erik Hestnes, Graham Gilbert, Steinar Bakkehøi</i>	Tailored probabilistic weather and sea-ice forecasting services for Arctic marine operators <i>Malte Müller, Jelmer Jeuring, Erin Emily Thomas, Laurent Bertino, Bjørn Åge Hjøllo, Ståle Høylandskjær, Berill Blair, Machiel Lamers</i>
	Improve safety by learning from previous cases. Arctic accident GIS and story map	<i>Nataly Marchenko</i>	Navigational problems and dangerous ice phenomena in Spitsbergen Fjords <i>Aleksey Marchenko</i>
	Plenary		
1045-1130	Northguider, stranded Trawler at 80° N, an environmental rescue operation under extreme conditions.		<i>Rune Bergstrøm</i>
1130-1230	Lunch		
1230	Conference Over		