



## National Snow Seminar

31.10. - 1.11.2024  
Rovaniemi



ARCTIC CENTRE  
University of Lapland



ILMATIETEEN LAITOS  
METEOROLOGISKA INSTITUTET  
FINNISH METEOROLOGICAL INSTITUTE



## 12th National Seminar on Snow

Thursday 31.10.2024

12:00-12:15 Opening

*Leena Leppänen and Sirpa Rasmus, Arctic Centre*

*Nicolas Gunslay, Chief Executive Producer, Science Centre Exhibition, Arctic Centre*

**12:15-13:50 Session: Arkinen ja arktinen lumi (Everyday snow, Arctic snow)**

*Chair: Leena Leppänen, Arctic Centre & Finnish Meteorological Institute*

12:15-12:35 The snow garden as a unique space for human-nature relations, *Hannah Strauss-Mazzullo, Arctic Centre, University of Lapland*

12:35-12:50 Lumitilaopas - ohjeet parempaan talveen, *Eeva Huuhtanen, Navico Oy*

12:50-13:05 Hydrological monitoring of snow at Syke -present status and recent activities, *Kati Anttila, Finnish Environment Institute*

13:05-13:20 Lumenkaatopaikan lumensulamisesien käsittely, *Heini Postila, Oulun yliopisto*

13:20-13:35 Remote: The new inland cryosphere project and its snow activities, *Mikko Strahlendorff, Finnish Meteorological Institute*

13:35-13:50 Citizen observations on lake/river ice and snow conditions in reindeer winter survival related data gathering, *Timo Pyhälähti, Finnish Environment Institute (Syke)*

13:50-14:20 Coffee break and Opening of the snow measurement season

**14:20-15:50 Session: FPCUP - Snow Load**

*Chair: Kati Anttila, Finnish Environment Institute*

14:20-14:40 Copernicus FPCUP Project, *Ali Nadir Arslan, Finnish Meteorological Institute*

14:40-14:55 Remote: Changes in extreme snow load in Europe associated with global warming levels, *Guillaume Evin, INRAE / IGE*

14:55-15:15 Snow load information systems for Uusimaa in Finland and Lombardi in Italy, *Ali Nadir Arslan, Finnish Meteorological Institute*

15:15-15:30 Remote: Estimation of snow load data using Copernicus and in-situ data, *Elisa Kamir, CNRS (France)*

15:30-15:50 A snow load information system for Bavaria (Germany), *Penelope Gehring, Deutscher Wetterdienst (DWD)*

15:50-16:00 Break

**16:00-17:35 Session: Snow & Art**

*Chair: TBD*

16:00-17:00 Keynote: Lumen tunne, *Antti Autti*

17:00-17:25 Farewell to Snow - Documentary Short Film Trilogy, *Sanni Priha, Film Director*

17:25-17:35 Exploring snow science in the Arktikum Science Centre, *Philip Burgess, Arctic Centre*

17:35-18:00 Posters

18:00- Dinner for registered participants

Friday 1.1.2024

**9:00-10:15 Session: Snow, ice and water**

*Chair: Pertti Ala-aho, University of Oulu*

9:00-9:15 Results of the Metadata survey in in-situ snow and sea ice data in Polar region, *Ali Nadir Arslan, Finnish Meteorological Institute*

9:15-9:30 Novel Approach to Spatiotemporal Analysis of Snow Cover Pattern using ERA 5 Dataset Over Finland, *Ramin Faal, University of Oulu*

9:30-9:45 UAV-based observations of albedo and HDRF over snow-covered boreal landscape in Sodankylä, Finland, *Henna-Reetta Hannula, Finnish Meteorological Institute*

9:46-10:00 Measuring lake ice thickness with SIMBA, *Ella Rantalainen, Finnish Environment Institute (Syke)*

10:00-10:15 Puhdasta lunta vai sulaa vettä? Arktis-biopoliittinen tulkinta eläinten hyvinvointilakiin, *Heli Koskinen*

10:15-10:45 Coffee break and posters

**10:45-11:50 Session: Snow and adaptation in the changing climate**

*Chair: Sirpa Rasmus, Arctic Centre*

10:45-11:05 Moottorikelkka lumisen maisemasuhteen rakentajana, *Tapio Nykänen, University of Oulu*

11:05-11:20 Estimating climate change impacts on breeding habitat of the endangered Saimaa ringed seal through lake ice and snow modelling, *Juho Jakkila, Finnish Environment Institute*

11:20-11:35 Kun talvi ei ole enää talvi: lumen muistot, merkitykset ja lumimuutokseen kytkeytyvä ekosuru, *Inkeri Markkula, Arktinen keskus*

11:35-11:50 Towards more sustainable snowmaking - the SnowApp climate service as a decision-support tool for winter tourism industry, *Ilona Mettiäinen, Arctic Centre, University of Lapland*

11:50-12:00 Break

**12:00-13:15 Session: Snow news**

*Chair: Anna Kontu, Finnish Meteorological Institute*

12:00-12:15 Recent activities related to snow and aerosols research at Pallas, Svalbard, Iceland, Greenland and Alps, *Outi Meinander, Finnish Meteorological Institute*

12:15-12:30 Near-Real-Time Monitoring of Northern Lake Ice, *Kirsikka Heinilä, Finnish Environment Institute (Syke)*

12:30-12:45 Ilmatieteen laitoksen lumivyöryennusteet 2024, *Kaisa Landon, Ilmatieteen laitos*

12:45-13:00 New snow and ice monitoring and research infrastructure for Northern Finland established in the CRYO-RI project, *Pertti Ala-aho, University of Oulu*

13:00-13:15 UArctic Thematic Network: Nordic Snow Network, *Ali Nadir Arslan, Finnish Meteorological Institute*

13:15 Closing

The seminar is organized together with UArctic Thematic Network Nordic Snow Network and Copernicus FPCUP SnowLoad Action.