

国際 雪・雪崩シンポジウム in ニセコ

プログラム

場所：ニセコ町民センター（北海道虻田郡ニセコ町富士見 95）

日時：2015 年 12 月 9 日～12 日



12 月 9 日（水）

オープンシンポジウム （17：30 開始）

「雪崩発生危険度を予測する」

安全・安心のための気象情報の活用

半井小絵（気象予報士）

ニセコにおける雪崩事故防止とその考え方

新谷暁生（ニセコ雪崩調査所）

ニセコを対象とした雪崩発生予測の試み

西村浩一（名古屋大学）

Avalanche hazard forecasting in France : missions, tools and prospects

Samuel Morin （フランス気象局） 通訳あり

Swiss avalanche warning service

Nander Wever （スイス雪・雪崩研究所）通訳あり

防災科学技術研究所における雪崩予測への取り組みの紹介

山口 悟（防災科学技術研究所）

Workshop on “MICROSTRUCTURES OF SNOW”

積雪構造に関するワークショップ

Thursday, December 10

9:00 “Advances and prospects in physically-based snowpack modeling”

Samuel Morin (Météo-France - CNRS)

9:30 "Specific surface area of new snow"

Satoru Yamaguchi (National Research Institute for Earth Science and Disaster Prevention)

10:00 "Shape modelling of ice particles using micro-CT data for snow radiative transfer calculations"

Hiroshi Ishimoto (Meteorological Research Institute)

10:30 – 10:45 Break

10:45 "Dynamics of idealized snow stratifications: Time-lapse tomography of near-crust metamorphism"

Henning Löwe (WSL Institute for Snow and Avalanche Research SLF)

11:15 "Shear Strength Tests of Artificial Surface Hoar Formed in a Wind Tunnel"

Toshihiro Ozeki (Hokkaido University of Education)

11:45 "Mobile shear-box for snow"

Evgeny Podolskiy (Hokkaido University)

12:15 – 13:30 Lunch 

13:30 "Visualization of liquid distribution in wet snow using X-ray CT and MR"

Satoru Adachi (National Research Institute for Earth Science and Disaster Prevention)

14:00 "Modeling of Liquid water infiltration using three-dimensional model in the snowpack"

Hiroyuki Hirashima (National Research Institute for Earth Science and Disaster Prevention)

Workshop on “AVALANCHE DYNAMICS”
雪崩(なだれ)ダイナミクスに関するワークショップ

Thursday, December 10

14:30 “Infrasound tripartite array for detection and estimation of locations of snow avalanches”

Nobuo ARAI (Nagoya University)

15:00 – 15:30 Break

15:30 “Snow avalanches from a seismological point of view (1995-2015)”

Emma Suriñach (Universitat de Barcelona)

16:00 “Variations in snow glide rates prior to full-depth avalanche release on shrub slopes in the temperate heavy-snow region of Japan”

Katsuhisa Kawashima (Niigata University)

16:30 “Snow-atmosphere interactions driving snow accumulation in steep terrain”

Rebecca Motto (WSL Institute for Snow and Avalanche Research SLF)

17:00 “CFD prediction of snowdrift around a building based on two transport equations of drifting snow densities”

Tsubasa Okaze (Tohoku University)

Friday, December 11

9:00 “Investigation of the 2015 Langtang ice-rock avalanche induced by the 2015 Gorkha Earthquake, Nepal Himalaya”

Koji Fujita (Nagoya University)

9:30 "Assessing wet snow avalanche risks from detailed snowpack simulations"

Nander Wever (WSL Institute for Snow and Avalanche Research SLF)

10:00 “Forcing snow avalanche dynamics calculations with modelled snowcover data: applications in Switzerland and Chile”

Cesar Vera Valoro (WSL Institute for Snow and Avalanche Research SLF)

10:30 – 10:45 Break

10:45 “Simulation of snow avalanche based on snowpacked model”

Kenichi Oda (Nihon University)

11:15 “Simple particle model for granular flow with head-tail structure”

Hirofumi Niiya (Nagoya University)

11:45 “Probabilistic hazard map with a Polynomial Chaos Quadrature method
-Application for a northern slope of Mount Fuji-“

Kae Tsunematsu (Mount Fuji Research Institute), *Kouich Nishimura* (Nagoya University), *Keisuke Mori* (CTC)

12:15 – 13:30 Lunch 🍴

13:30 “Mathematical Approach for Pattern Dynamics on the Surface of Granular Bed”

Hiraku Nishimori (Hiroshima University)

14:00 “Splash Process due to Grain Impact on Granular Bed”

Takahiro Tanabe (Hiroshima University)

14:30 “Swimming in sand: velocity, efficiency, controlling, and interaction”

Takashi Shimada (University of Tokyo)

15:00 – 15:30 Break

15:30 “Grain-size segregation by the shear”

Ryo Itoh, Takahiro Hatano (Earthquake Research Institute, University of Tokyo)

16:00 “Avalanche contribution to shear modulus of granular materials near jamming”

Michio Otsuki (Shimane University)

16:30 “Granular Avalanche driven by vertical vibration”

Daisuke Tsuji, Hiroaki Katsuragi (Nagoya University)

17:00 “Pressure in vibrated granular bed”

Hiroaki Katsuragi (Nagoya University)

Saturday, December 12

9:00 “Taconnaz and Lautaret full-scale avalanche test-site and 3935 other French
avalanche paths”

Florence Naaim (IRSTEA)

9:30 "On the internal structure of snow avalanches from data collected at the Vallée de
la Sionne test site"

Betty Sovila (WSL Institute for Snow and Avalanche Research SLF)

10:00 "Dynamical lessons from the Vallée de la Sionne test site"

Jim McElwaine (Durham University)

10:30 "Future directions in avalanche dynamics research: lessons learnt from the Ryggfonn experiments, knowledge gaps and new opportunities"

Dieter Issler (Norwegian Geotechnical Institute)

11:00 "Full-scale snow avalanche experiment in Niseko"

Kouichi Nishimura (Nagoya University)

Discussion