

第2回 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：2018年12月7日～10日



12月7日（金）

ニセコ雪崩ミーティング（18：30 開始）

第I部「雪崩発生予測の最前線」

ニセコの冬の気象

半田晋二郎（日本気象協会）

Avalanche hazard forecasting by Météo-France

Pascal Hagemuller（フランス気象局） 通訳あり

Snow avalanche warning in Switzerland: Tradition and Technology

Michael Lening（スイス雪・雪崩研究所、スイス連邦工科大学ローザンヌ校）通訳あり

防災科学技術研究所による雪崩予測について

山口 悟（防災科学技術研究所）

第II部 ディスカッション

司会：新谷暁生

Workshop on “SNOW PHYSICS”
積雪の物理に関するワークショップ

Saturday, December 8

Wet snow

9:10 “Introduction of snow physics studies by NIED”

Satoru Yamaguchi (NIED)

9:40 " Experimental study on water infiltration into snowpack"

Hiroki Tsuji (Nagoya Univ.)

10:10 "Observation of fingering flow and lateral flow development in layered dry snowpack by using MRI"

Takafumi Katsushima (FFPRI)

10:40 – 11:00 Break

11:00 "Comparison between a 3D water transport model and SNOWPACK for liquid water infiltration with preferential flow"

Hiroyuki Hirashima (NIED)

11:30 "Improving the simulation of capillary pressure in snow with a non-equilibrium Richards equation model"

Nicolas Romain Leroux (Univ. of Saskatchewan)

12:00 – 13:30 Lunch 🍴

13:30 "Estimation of Effective Porosity of Seasonal Snow"

Hayato Arakawa (NIED)

14:00 " An investigation on crystal shape of artificial surface hoar crystals"

Toshihiro Ozeki (Hokkaido Univ. of Education)

14:30 " Microstructure-based modeling of snow mechanics"

Pascal Hagenmuller (Météo-France - CNRS)

15:00 – 15:20 Break

Workshop on “BLOWING SNOW”

吹雪に関するワークショップ

Saturday, December 8

15:20 “Wind-tunnel experiments on splash process: three-dimensional particle track with high-speed cameras”

Hirofumi Niiya (Niigata Univ.)

15:50 “Splash process due to a grain impact on granular bed”

Akihiro Tanabe (Meiji Univ.)

16:20 “Development of a large-eddy simulation coupled with Lagrangian snow transport model”

Tsubasa Okaze (Tokyo Tech)

16:50 “Investigating Dynamics of Sand Dunes Using Combination of Lattice-Boltzmann Method and Sand-Particles-in-Cell Model”

Hiraku Nishimori (Hiroshima Univ.)

Sunday, December 9

9:00 “Observation of the spatio-temporal variability of blowing snow”

Masaki Nemoto (NIED)

9:30 "Coherence of Alpine Turbulence and Blowing Snow "

Nikolas Aksamit (ETH)

10:00 “Drifting and blowing snow investigations at different scales”

Benjamin Anders WALTER (SLF)

10:30 – 10:45 Break

10:45 “Blowing snow experimental test site Col du Lac Blanc (French Alps) : past and on going researches”

Florence Naaim BOUVET (IRSTEA)

11:15 “Snow deposition and snow mass balance in extreme environments”

Michael Lening (SLF, EPFL)

11:45 “Development of avalanche warning system in Hokkaido, Japan “

Asami Komatsu (JWA)

12:15 – 13:30 Lunch 🍴

Workshop on “SNOW AVALANCHES”

雪崩に関するワークショップ

13:30 “Numerical simulation of debris flow on the basis of two dimensional continuum body model”

Hiroshi Takebayashi (DPRI, Kyoto Univ.)

14:00 “Simulation of avalanche occurred in Nasu-machi, Tochigi prefecture, 2017”

Kenichi Oda (Nihon Univ.)

14:30 “Application of the pyroclastic flow friction model to the snow avalanches”

Kae Tsunematsu (Yamagata Univ.), *Fukashi Maeno* (ERI, Univ. of Tokyo)

15:00 “Thermal equilibrium and flow regime transitions in snow flows”

Jan Thomas Fischer (BFW)

15:30 – 15:40 Break

15:40 “Slushflows induced by an extreme rain-on-snow event on 9 March 2018, Hokkaido, Japan”

Katsuhisa Kawashima (Niigata Univ.)

16:10 “Slush avalanches and its observation plan at Mount Fuji”

Ryo Honda (MFRI)

16:40 “Seismic detection and location of avalanches and slush flows at Mt.Fuji, Japan”

Cristina Perez-Guillen (Barcelona Univ.)

17:10 “Snow avalanche experiments in Niseko 2016-2018 - progress in 3 years-

Yoichi Ito (NIED)

17:40 “Full-scale avalanche experiment in Niseko, 2019”

Kouichi Nishimura (Nagoya Univ.)

Closing

12月10日(月)

ワークショップ (9:00 開始)

ニセコ雪崩情報発信のこれからを考える