EGU 2020

CR3.3

Snow avalanche dynamics: from basic physical knowledge to mitigation strategies

Co-organized by NH3

Chat room open :
Friday, 8 May 2020
16:15 – 18:00

Convener: Thierry Faug
Co-conveners: Jan-Thomas Fischer, Florence Naaim-Bouvet, Betty Sovilla

Organisation

Moderators: Thierry Faug (INRAE UGA, France), Jan-Thomas Fischer (BFW, Austria)

Scheduling: Friday, 08 May, 16:15–16:00
Introduction // 5 min break // 1 block (5 displays) // 5 min break // Block 2 (5 displays)

Authors are invited to post 2 sentences about their work and to clearly identify themselves (name visible, author status indicated, display number :
e.g. *Xingyue Li (author) display2220*)

Authors are invited to post 2 sentences regarding the highlights of their work at the beginning of their block

Schedule (for guidance)

16h15-16h30 : Session introduction

.useful information will be displayed by the conveners
.all participants are invited to look at the summary session video available here :
https://meetingorganizer.copernicus.org/EGU2020/displays/34950

5 min break

16h35-17h15 : Block 1

D2220 Xingyue Li et al. // D2221 Guillaume Chambon et al. // D2222 Camille Ligneau et al. // D2225 Michael L. Kyburz et al. // D2226 Hippolyte Kern et al.

5 min break

17h20-18h00 : Block 2

D2227 Michael Neuhauser et al. // D2228 Taline Zgheib et al. // D2229 Adrien Favillier et al. // D2230 Stephan Harvey et al. // D2231 Gregor Ortner et al.

BLOCK 1 : 16:35 – 17h15 (for guidance)

SNOW AVALANCHES DYNAMICS : mechanics, physical processes, geomorphology, etc.

D2220 | EGU2020-2153
Numerical modeling of snow avalanche dynamics based on the Material Point Method
Xingyue Li, Betty Sovilla, Stephanie Wang, Chenfanfu Jiang, and Johan Gaume

D2221 | EGU2020-18607
Simulating the propagation of wet snow avalanches: challenges and perspectives
Guillaume Chambon, Thierry Faug, Mohamed Naaim, and Nicolas Eckert

D2222 | EGU2020-18565
Avalanche flow regime transitions in a changing climate
Camille Ligneau, Betty Sovilla, and Johan Gaume

D2225 | EGU2020-18391
How obstacle geometry and snow properties influence avalanche impact pressure
Michael L. Kyburz, Betty Sovilla, Johan Gaume, and Christophe Ancey

D2226 | EGU2020-22006
Relationships between corridor morphological variables and avalanche deposits volumes
Hippolyte Kern, Vincent Jomelli, Nicolas Eckert, and Delphine Grancher

BLOCK 2 : 17:20 – 18h00 (for guidance)

SNOW AVALANCHES : hazard, mapping, mitigation strategies, risk assessment, etc.

D2227 | EGU2020-21938
Flow-Py: Identifying protection forests and their effects on gravitational natural hazard processes on a regional scale
Michael Neuhauser, Christopher D'Amboise, Michaela Teich, and Jan Thomas Fischer

D2228 | EGU2020-165
Impact of land cover on avalanche hazard: how forest cover changes affect return periods and dynamical characteristics simulated by a statistical-numerical avalanche model.
Taline Zgheib, Florie Giacona, Anne-Marie Granet-Abisset, Samuel Morin, and Nicolas Eckert

D2229 | EGU2020-17597
Impacts of land-cover changes on dendrogeomorphic reconstructions of snow avalanches: Insights from the Queyras massif (French Alps)
Adrien Favillier, Robin Mainieri, Jérôme Lopez-Saez, Mélanie Saulnier, Nicolas Eckert, Jean-Luc Peiry, Markus Stoffel, and Christophe Corona

D2230 | EGU2020-11465
Automatic high-resolution mapping and classification of avalanche terrain regarding potential release, triggering and run-out zones
Stephan Harvey, Günter Schmudlach, Yves Bühler, Dürr Lukas, Andreas Stoffel, and Marc Christen

D2231 | EGU2020-8490
From Large Scale Hazard Mapping to Risk Assessment
Gregor Ortner, Michael Bruendl, David N. Bresch, and Yves Bühler