



D-BAUG Workshop on Natural Hazards

Programme

Thursday, 08 June 2017
ETH Hönggerberg, HCI J3



Morning Programme

Introduction

- 08:30-08:35 **Prof. Thomas Vogel** (Head of department D-BAUG)
Introduction
- 08:35-08:45 **Prof. Sarah Springman** (Rector of ETH Zurich)
Welcoming address

Session 1 - Landslides and Earthquakes

- 08:45-09:30 **Prof. Eduardo Alonso** (Politechnical University of Catalonia - Invited)
Modelling fast landslides: the case of Vaiont
- 09:30-09:45 **Prof. Alexander Puzrin** (IGT)
Submarine landslides: unifying shear band propagation approach
- 09:45-10:00 **Dr. Helge Fuchs** (VAW)
Impulse waves generated by granular submarine slides
- 10:00-10:15 **Philipp W. Oberender** (IGT)
Observation guided constitutive modelling for creeping landslides
- 10:15-10:40 Coffee Break
- 10:40-10:55 **Prof. Božidar Stojadinović** (IBK)
Earthquake (and natural hazard) resilience of communities
- 10:55-11:10 **Dr. Marco Broccardo** (IBK)
Uncertainties in seismic hazard and risk analyses: the good, the bad and the way ahead
- 11:10-11:25 **Prof. Markus Rothacher** (IGP)
Contributions of GNSS to earthquake hazard monitoring and assessment
- 11:25-11:40 **Prof. Alain Geiger** (IGP)
Determination of tectonic and landslide strain patterns from geodetic deformation observation and analysis
- 11:40-11:55 **Daisy Lucas** (IGT)
Study of the seasonal response of a steep scree slope in the Swiss Alps
- 11:55-12:10 **Prof. Jan Carmeliet** (ITA/D-BAUG)
3D DEM study of stick-slip in granular fault gouge; effect of vibration and fluid saturation
- 12:10-12:25 Summary panel on landslides and earthquakes
- 12:25-13:30 Lunch

Afternoon Programme

Session 2 - Floods and Cryosphere-related Hazards

13:30-14:00	Prof. Günter Blöschl (Technical University Vienna - Invited) <i>Understanding flood regime changes in Europe</i>
14:00-14:15	Prof. Bryan T. Adey (IBI) <i>Challenges in assessing road related risk to plan risk-reducing interventions</i>
14:15-14:30	Dr. João P. Leitão (IfU/Eawag) <i>The potential of new data sources to improve urban flood modelling</i>
14:30-14:45	Elena Leonarduzzi (IfU) <i>Forecast and warning concept for landslides in Switzerland based on rainfall triggering thresholds and multiscale hydrological modelling</i>
14:45-15:00	Samuel J. Peter (VAW) <i>GPU accelerated BASEMENT enabling Monte-Carlo simulations for flood risk analysis</i>
15:00-15:25	Coffee Break
15:25-15:55	Prof. Michael Krautblatter (Technical University of Munich - Invited) <i>Destabilization of permafrost slopes: Mechanical modelling approaches and application to high-alpine infrastructure</i>
15:55-16:10	Prof. Andreas Wieser (IGP) <i>Terrestrial remote sensing of glaciers using laser scanning and radar interferometry</i>
16:10-16:25	Fabian Lindner (VAW) <i>Seismic monitoring of the 2016 outburst flood of Lac des Faverges on Glacier de la Plaine Morte</i>
16:25-16:40	Ana Stritih (IRL) <i>Quantifying avalanche protection in forests using remote sensing</i>
16:40-16:55	Summary panel on floods and cryosphere-related hazards

Conclusion

16:55-17:10	Conclusions and end of workshop
17:10	Apéro