

# **Glacier Hazard Workshop 2009 Vienna – Poster sessions:**

## **(1) Climate Change and Slope Stability in High Mountains (J. Clague, S. Evans)**

1.1

S.K. Allen, S.C. Cox, I.F. Owens

Recent bedrock failures occurring from permafrost affected slopes in the Southern Alps of New Zealand

1.2

M. Avian

Assessment of recent slope instabilities in glacial and permafrost environments in the Central Austrian Alps

1.3

M. Chiarle, M. Geertsema, S. Gruber, G. Mortara

Cryosphere conditioning to debris flow development

1.4

L. Fischer, C. Huggel, A. Kaeaeab, R.S. Purves, J. Noetzli, H. Eisenbeiss, F. Amann, J.R. Moore, W. Haeberli

On the influence of topographic, geological and cryospheric factors on slope instabilities in steep periglacial rock walls

1.5

A. Kaeaeab, T. Strozzi, R. Delaloye, C. Ambrosi

Paraglacial rock mass movements in response to glacier retreat. Examples from Aletsch Glacier, Swiss Alps

## **(2) Hazards related to volcano-ice interactions (H. Delgado Granados)**

2.1

R. Worni, B. Pulgarin, C. Cardonas, C. Huggel, M. Stoffel, D. Schneider

Challenges of modelling recent, very large lahars at Nevado del Huila Volcano, Columbia

2.2

R. Worni, B. Pulgarin, A. Agudelo, M. Stoffel, C. Huggel  
Glacier – volcano interactions and related hazards during the 2007 eruptive crisis at Nevado del Huila, Columbia

2.3

D. Schneider, J. Caplan-Auerbach, C. Huggel, P. Bartelt  
Iliamna Volcano (Alaska): a field laboratory for large rock-ice avalanche modelling

### **(3) Political economy and sociology of glacier disasters (C. Jurt, G. Greenwood)**

3.1

M. Brook, J. Holland  
Glacier hazards and tourism at Fox Glacier, South Westland, New Zealand

3.2

C. Jurt, M. Grote, M. Buchecker, H.-R. Wicker & B.S. Orlove  
Natural Hazards in their Context: Risks from Inside and Outside in the South Tyrolean Alps

### **(4) Climate change & glacier lakes: hazards or potential water resource? (J.F. Schneider, M. Stoffel)**

4.1

D. Binder, W. Schoener, B. Hynek, G. Weyss, J. Abermann, M. Olefs  
A.P. Olsen Ice Cap: A Glacial Lake Outburst Flood?

4.2

C. Narama, A. Kaeaeb, M. Duishonakonov, M. Dayrov  
Glacier lake outburst floods during 2000-2009 in the Tien Shan Mountains, Central Asia

4.3

H. Frey, W. Haerberli, C. Huggel, A. Linsbauer  
A multi-scale strategy for anticipating future glacier lake formation and associated hazard potentials

4.4

I. Severskiy, P. Borodavko, G.E. Glazirin, J. Herget  
Hazard assessment and outburst flood estimation of naturally dammed lakes in Central Asia

4.5

S.D. Richardson, D.J. Quincey, N. Nasab

The 2008 glacier outburst floods from Ghulkin Glacier, Karakoram, Pakistan

4.6

Wang Xin et al.

Hazard assessment of moraine-dammed lake outburst floods in the Himalayas, China

4.7

C. Huggel, M. Stoffel, N. Salzmann

Scientific basis for climate change adaptation projects in the Andes and Himalayas: water resources and hazards

## **(5) Modeling mass movements and floods in high-mountain environments (C. Huggel)**

5.1

P. Dalban Canassy

Flow dynamics of the steep part of Triftgletscher (Switzerland)

5.2

A. Dussaillant, A. Siviglia, G. Zolezzi, G. Benito, P. Carling, W. Buytaert, C. Meier, F. Espinoza

Repeated glacial-lake outburst floods in Patagonia, Chile: Numerical approximations with increasingly complex models

5.3

S. Gruber

A global 30 arc second permafrost model

## **(6) Ground-based monitoring and detection (A. Tamburini)**

6.1

M. Citterio, R. Mottram, A. Ahlstrøm

Preliminary assessment of the surge potential of Arcturus Glacier at the Malmbjerg mining prospect (Stauning Alps, central East Greenland)

6.2

F. Diotri, R. Roncella, G. Forlani, C. Lucianaz, M. Vagliasindi, D. Brocherel, J.P. Fosson

Efficient surveying of hanging glaciers: the serac of the Grandes Jorasses

6.3

J. Faillettaz, M. Funk, D. Sornette  
Icequakes as precursors of ice avalanches

6.4

M. Keuschnig, J.-C. Otto, L. Schrott  
Application of GPR on rough terrain surfaces for monitoring issues using a simple ropeway system

6.5

F. Koellner, I. Lecomte, D. Petrakov, S. Chernomorets, M. Shakhmina, S.-E. Hamran, A. Kaeaeab, H. Juliusen  
Geophysics in glacial-hazard initiation zones: the high mountains of South Russia

6.6

P. Limpach  
Rock glacier monitoring with low-cost GPS receivers

6.7

J. Scheibz, H. Haeusler, D. Leber, A. Kopecny, U. Wetzel  
Near Surface Geophysical Measurements in the Vicinity of Lake Merzbacher – First results from the 2009 Inylchek Expedition (Kyrgyz Republic)

6.8

D. Leber, A. Kopecny, H. Haeusler, W. Wetzel  
Ground Check for the Remote Sensing based monitoring of the central Inylchek Glacier System (Kyrgyz Republic)

## **(7) Remote sensing based monitoring (D. Quincey, A. Kaeaeab)**

7.1

M. Citterio, L. Hauch Kaufmann, C. Sigsgaard, M.P. Tamstorf, A. Ahlstrøm  
The November 2008 glacial lake outburst flood from A.P. Olsen Cap (Zackenberg River catchment, North East Greenland)

7.2

V. Kaufmann  
Detection and measurement of highly active rock glaciers using multi-temporal high-resolution orthophotos of virtual globes, such as Google Maps and Microsoft Virtual Earth/Bing Maps

7.3

K. Khan, A.S. Almas  
Glacial Lake Outburst Floods a Highland challenge in the Kaghan Valley NW Himalayas, Pakistan: Hazard Appraisal Using Remote Sensing and GIS Techniques

7.4

Liu Qiao, Liu Shiyin, Guo Wanqing, Wang Xin  
Using ASTER imagery and DEMs assessing a proglacial debris-flows event (2005) in Moxi, east slope of Mountain Gongga

7.5

D.J. Quincey, S.D. Richardson  
Glacier hazard formation and evaluation in the Northern Areas of Pakistan

7.6

J.F. Schneider, M. Mergili  
Assessment of remote geohazards in high mountain areas of Tajikistan, with special emphasis on GLOFs and the breach of natural dams

7.7

A. Wiesmann, T. Strozzi, A. Kaeaeb  
An ESA DUE INNOVATOR2 project on glacial lake mapping from high-resolution space-born SAR

## **(8) Prevention and mitigation (J. Hanisch, J. Reynolds)**

8.1

S. Margreth, M. Funk, M. Vagliasindi, I. Voyat  
Safety concept for hazards from ice avalanches from the Whymper glacier in the Mont Blanc massif

8.2

M. Cerny, B. Jansky, Z. Engel, M. Sobr, V. Benes, S. Yerokhin  
Petrov Lake: Dynamics of glacier and lake development, hazards and measures

8.3

M. Mergili, J.F. Schneider  
Capacity-building and risk mitigation strategies for remote geohazards in Tajikistan