

Final Program

Geohazards -
Technical, Economical and Social Risk Evaluation

18 - 21 June 2006
Lillehammer, Norway

Chair

Prof. **Farrokh Nadim**
International Centre for Geohazards, Oslo, Norway

Co-Chairs

Dr **Rudolf Pöttler**
ILF – Consulting Engineers, Innsbruck, Austria

Prof. **Herbert Einstein**
Massachusetts Institute of Technology, USA

Prof. **Herbert Klapperich**
TU Bergakademie Freiberg, Institut für Geotechnik, Germany

Prof. **Steven Kramer**
University of Washington, USA

ECI

Engineering Conferences International
6 MetroTech Center
Brooklyn, NY 11201, USA
Phone: 1-718-260-3743, Fax: 1-718-260-3754
www.engconfintl.org - info@eci.poly.edu

Sunday, June 18, 2006

17:00 – 19:00	Registration/Check-in
18:30 – 19:30	Welcome Reception
19:00 – 20:30	Dinner

NOTES FOR CONFERENCE PARTICIPANTS

Participants should observe no smoking at ECI technical and social events.

During technical sessions please keep cell phones on vibrate or shut off. Take any telephone conversations out of the session room.

Presenters should adhere to the following timetable:

Keynote Presentations: 40 minutes (35 minutes + 5 minutes questions and discussion)

Contributed Papers: 15 minutes (12 minutes + 3 minutes questions and discussion)

Monday, June 19, 2006

07:30 – 08:45	Breakfast
08:45 – 09:00	Welcome – Conference Overview: Dr Rudolf Pöttler
09:00	SESSION 1: Session Chair: Farrokh Nadim
09:00 – 09:40	Keynote: Prof. Herbert Einstein MIT, Cambridge, USA "Warning systems for natural threats" H. Einstein and R. Sousa
09:40 – 09:55	Remote sensing technologies for monitoring climate change impacts on glacier- and permafrost- related hazards Andreas Käab , C. Huggel, and L. Fischer
09:55 – 10:10	Geohazards, climate change and extreme weather events Christian Jaedicke and K. Kronholm
10:10 – 10:25	Influence of degrading permafrost on landsliding processes: Little Salmon Lake, Yukon Territory, Canada R. Lyle and D. Jean Hutchinson
10:25 – 10:50	Coffee Break
10:50 – 11:05	Quantitative risk assessment as applied to natural terrain landslide hazard management in a mid-levels catchment, Hong Kong Ian Muir , K.K.S. Ho, H.W. Sun, T.H.H. Hui and Y.C. Koo
11:05 – 11:20	Landslide hazard in El Salvador Carlos Rodríguez P. , A. T. Torres and E. A. León
11:20 – 11:35	Predicting movements of rainfall-reactivated slides in stiff clay Michele Calvello
11:35 – 11:50	Instrumentation of flexible buried culvert subjected to rockfall loading Roger Ebeltoft , J. O. Larsen and S. Nordal
11:50 – 12:10	Discussion
12:15 - 14:00	Lunch

Monday, June 19, 2006 (continued)

- 14:00 SESSION 2:
Session Chair: **Herbert Einstein**
- 14:00 – 14:40 Keynote: Prof. **Wilson Tang**
Hong Kong University of Science and Technology, Hong Kong, China
"Dealing with uncertainty in engineering design for large-scale gravel soil slopes in the Three Gorges reservoir zone"
W. H. Tang, L. M. Zhang and Y. R. Zheng
- 14:40 – 14:55 Dam risk analysis using bayesian networks
Marc Smith
- 14:55 – 15:10 Instrumental intensity scales for geohazards
Steven L. Kramer and Sarah B. Upsall
- 15:10 – 15:25 The importance of laboratory experiments in landslide investigation
B. Schneider-Muntau, D. Renk, T. Marcher and W. Fellin
- 15:25 – 15:50 Coffee Break
- 15:50 SESSION 3:
Session Chair: **Suzanne Lacasse**
- 15:50 – 16:30 Keynote: Mr. **Reza Lahidji**
Organisation for Economic Co-operation and Development, Paris, France
"Comparison of risk management policies in OECD countries"
- 16:30 – 16:45 The 1999 Colorado Springs, Colorado landslides - federal, state and local government response; public involvement; and future long-term risks and challenges
Mark W. Squire
- 16:45 – 17:00 Risk analyses and risk management - slope instabilities in Alpine environments
Stefan Eder, G. Poscher and C. Prager
- 17:00 – 17:15 The hazard assessment in a terraced landscape: the Liguria (Italy) case study in the Interreg III Alpter project
G. Brancucci and **Guido Paliaga**
- 17:15 – 18:00 General Discussion
- 19:30 - Dinner

Tuesday, June 20, 2006

07:30 – 08:45	Breakfast
09:00	SESSION 4: Session Chair: Steven L. Kramer
09:00 – 09:40	Keynote: Prof. Mustafa Erdik Kandilli Observatory and Earthquake Research Institute, Istanbul, Turkey "Urban earthquake risk"
09:40 – 09:55	A capacity spectrum method for seismic risk assessment Sergio Molina
09:55 – 10:10	Probabilistic seismic loss estimation for Eskisehir, Turkey M. Semith Yucemen , N. Y. Ozturk and A. Deniz
10:10 – 10:25	Simulation of socio-economic impacts due to seismic damage of Tehran water network Reza Rasti Ardakani and F. Vazinram
10:25 – 10:50	Coffee Break
10:50 – 11:05	Evaluation of liquefaction susceptibility for microzonation and urban planning Atilla Ansal and GökçeTönük
11:05 – 11:20	Back analysis of the Lower San Fernando Dam slide using a multi-block model Constantine Stamatopoulos and P. Petridis
11:20 – 11:35	Integrated natural disaster risk assessment – the socio- economic dimension of earthquake risk in the urban area Sibel Kalaycioglu , Helga Rittersberger-Tiliç, Kezban Çelik and Fatime Günes
11:35 – 11:50	A first-order second-moment framework for probabilistic estimation of vulnerability to landslides Marco Uzielli , S. Düzgün and B.V. Vangelsten
11:50 – 12:10	Discussion
12:15 – 14:00	Lunch

Tuesday, June 20, 2006 (continued)

- 14:00 SESSION 5:
Session Chair: **Rudolf Pöttler**
- 14:00 – 14:40 Keynote: Prof. **Costas E. Synolakis**
University of Southern California, Los Angeles, USA; and
Laboratory of Natural Hazards, Technical University of
Crete, Chanea, Greece
"A hydrodynamics perspective for the 2004 megatsunami"
- 14:40 – 14:55 Studies of the Gaviota Slide offshore southern California
Mark A. Zumberge, J. Babcock, H. Banon, J. Blum,
C. D. Chadwell, J. Dinger, N. Driscoll, G. D'Spain,
P. Jeanjean, G. Kent, G. Openshaw, and J. Orcutt
- 14:55 – 15:10 Dealing with tsunami risk - A case study for Thailand
Kjell Karlsrud
- 15:10 – 15:25 On tsunami risk assessment for the west coast of Thailand
Farrokh Nadim and Thomas Glade
- 15:25 – 15:50 Coffee Break
- 15:50 – 16:05 Prediction of complex systems using grey models
Dirk Proske and P.H.A.J.M. van Gelder
- 16:05 – 16:20 Cost finding for traffic and transport infrastructure projects
taking account of project risks
Rudolf Pöttler and H.F.Schweiger
- 16:20 – 16:35 Mapping expert uncertainties or confidence level in mining
risk prevention Plans
Maxime Cauvin, T. Verdel, R. Salmon and C. Didier
- 16:35 – 16:50 On the acceptable risk for structures subjected to
geohazards
Dimitris Diamantidis, **Sebnem Düzgün**, F. Nadim and
M. Wöhrle
- 16:50 – 17:15 Discussion
- 17:15 – 18:30 Break
- 18:30 – 22:00 Visit to Lillehammer Art Museum and Conference Dinner

Wednesday, June 21, 2006

07:30 – 08:45	Breakfast
09:00	SESSION 6: Session Chair: Prof. Herbert Klapperich
09:00 – 09:40	Keynote 1: Dr Joanne Linnerooth-Bayer International Institute for Applied Systems Analysis (IIASA), Laxenburg, Austria "Insurance and risk transfer - Reorienting disaster assistance"
09:40 – 10:30	Keynote 2: Dr Carsten Felgentreff University Osnabrueck, Germany "Disasters and decision processes"
10:30 – 11:30	Panel Discussion: What should be the focus areas for geohazards risk research in the next ten years?
11:30 – 13:00	Lunch and Departures
13:00 – 20:00	Optional Excursion to Gjøvik "Olympisk Fjellhall" – ends in Oslo

Thursday, June 22, 2006

Breakfast at your hotel

Afternoon (13:00 – 15:00): Open House at Norwegian Geotechnical Institute /
International Centre for Geohazards

Friday, June 23, 2006

Those who stay in Oslo on Friday night should not forget the solstice celebration by the Oslo Fjord.