

Registration form

First name

Last name

Birthdate Nationality

Actual position

Research topic

Organisation

Address

City and zip code

Phone Fax

Email

Please join to this registration form an extended curriculum vitae and a letter of interest (max. 1 pg) for the topic workshop.
After selection of the participants you will receive an invoice with all the details on payment facilities.

Signature

To be sent back to the organisation committee preferably by email until 30 September 2007.

Address: Ch. Tour-Grise 28
1007 Lausanne, Switzerland

Email: Michel.Jaboyedoff@unil.ch
Phone: +41 (0)79 752.35.15
Fax: +41 (0)21 692.35.35

Working language and documents

Lessons, practical works and documents provided within the workshop will be in English.

Programme

* Monday, November 26th

Lessons:

- Geomechanics and fluid mechanics.
- Debris flow & avalanche hazard assessment.

Practical work:

- Dynamic modelling (part I).
- Exercises of soil mechanics.

Ice breaker.

* Tuesday, November 27th

Lessons:

- Landslide mechanisms and hazard assessment.
- Remote sensing and Insar techniques.

Practical work:

- Dynamic modeling (part II).
- Radar and Insar techniques.

* Wednesday, November 28th

Lessons:

- Rock mechanics.
- Rockfall hazard mapping and assessment.

Practical work:

- Modelling of rock instabilities (GIS tools, etc).

* Thursday, November 29th

Lessons:

- Landslide investigation and monitoring techniques.

Field trip: Visit of hazardous sites in the Valais area.

Workshop banquet.

* Friday, November 30th

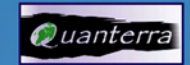
Practical works:

- Analysis of rock and soil slopes stability.
- Seminar: Diffusion of scientific information.

Bye Bye Buffet.

<http://mountain-risks.eu> <http://lms.epfl.ch>

<http://www.unil.ch/igar> <http://lmr.epfl.ch>



MOUNTAIN-RISKS Workshop



HAZARD ANALYSIS (slide, rockfall, debris flow, snow avalanche)

November 26th to 30th 2007
Lausanne, Switzerland



Background

The Topic Workshop is taking place within the **Marie Curie Research & Training Network 'Mountain Risks: from risk assessment to risk management and governance'** (2007-2010). European Marie Curie actions provide the means for research teams of recognised international stature project, in order to formulate and implement a structured training programme for researchers in a particular field of research. The Workshop 'Hazard Analysis' is organized by the **University of Lausanne**, the **EPFL**, **Quanterra** and the **European community**.

Organisation board

Prof. Michel Jaboyedoff (University of Lausanne, CH)

Prof. Lyesse Laloui (EPFL, CH)

Dr. Vincent Labiouse (EPFL, CH)

Dr. Jean-Philippe Malet (CNRS, France)

Teaching team

Dr. François Baillifard (University of Lausanne, CH)

Dr. Santiago Beguéria-Portuguès (CSIC, Spain)

Dr. Christophe Bonnard (EPFL, CH)

Dr. Giacomo Falorni (University of Firenze, Italy)

Dr. Maia Ibsen (Kingston University, GB)

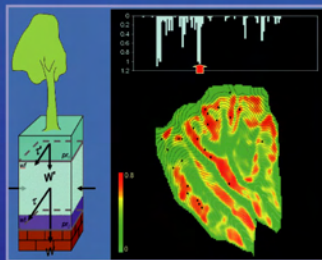
Prof. Michel Jaboyedoff (University of Lausanne, CH)

Dr. Vincent Labiouse (EPFL, CH)

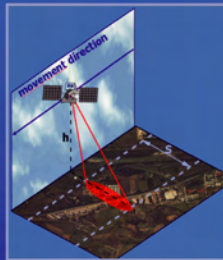
Prof. Lyesse Laloui (EPFL, CH)

Dr. Mohamed Naaim (Cemagref, France)

Prof. Theo van Asch (University of Utrecht, NL)



Slope stability modelling



Hazard mapping using remote-sensing

Objectives

Many European mountainous areas are affected by one or several potentially hazardous processes. The 'Mountain Risks' project strengthens the collaboration between several research groups, training centres, and consulting companies with experts of mountain processes, holding different backgrounds, playing different roles in the risk management scheme, and working in different socio-economic, legal and environmental contexts.

The 'Mountain Risks' project is structured in four main steps:

1. Hazard Analysis
2. Quantitative Risk Assessment
3. Risk Management
4. Risk Governance

This Workshop concerns the analysis of single hazards associated to several types of slope processes. **The main objectives of the Workshop are:**

(1) to train young scientists on basic and advanced knowledge of geomechanics, rock mechanics and fluid mechanics;

(2) to present several processing and modelling techniques applied to the analysis of a variety of mountainous hazardous processes such as landslide, rockfall, debris flow and snow avalanche;

(3) to present investigation and monitoring techniques applicable for these hazards: optical remote sensing, radar and InSAR techniques, GIS tools, stability tools.

The attendees will gain basic and advanced knowledge on current state-of-the-art concepts of single hazard analysis.

The Workshop is based on lessons, practical works and field trip (region of Valais, Switzerland).

There will be ample opportunities for discussion with senior scientists during the workshop.

Candidate selection

The Workshop is open to graduate students, PhD and Post-doc students dealing with Mountain Risks. The total number of participants is fixed at 20 students.

Candidate selection is based on a CV and a letter of interest which are due on **30 September 2007** together with the registration form at the end of this circular.

The selected candidates will receive a second circular with detailed information on travelling and programme shortly after the deadline.

Training fees and grants

Fees for educational facilities, participation to the field trip and the lunches will be 160 €.

The 'Mountain Risks' project offers two grants (fixed amount of 400 €) for young students from southern Mediterranean or eastern Europe in order to cover travelling costs and participation to the courses.

Venue and accommodation

The workshop will take place at the University of Lausanne.



Some informations about the lodging in Lausanne can be found on the following links.

<http://www.lausanne-tourisme.ch>

http://www.hotels-and-more.ch/fr/vaud/lausanne/youth_hostel_jeunotel.php