



## CHANGING HYDRO-METEOROLOGICAL RISKS AS ANALYZED BY A NEW GENERATION OF EUROPEAN SCIENTISTS

*Professional skills course:* Dissemination of scientific results to the public

*Professional skills course:* Writing research grant proposals

*Technical skills course:* Monitoring and prediction of environmental changes.

And the 11th edition of the International Summer School

## ENVIRONMENTAL HAZARDS AND SUSTAINABLE DEVELOPMENT IN MOUNTAIN REGIONS



**10-15 September,  
Buzău Carpathians,  
ROMANIA**

## Aim and objectives

The lectures and field research will take place in Vrancea Seismic region, one of Europe's most tectonically active provinces, an area considered a natural laboratory for the study of slope and channel processes. Herein, the next generation of researchers in the field of hazard and risk management will be able to go more into details on several aspects of global change at various levels: climate change, environmental changes, socio-economic situation changes. Consequently, any analysis needs to be able to consider these changes and has to be adopted accordingly. The overall strategy of the meeting is, by bringing together a group of researchers with diverse backgrounds, to analyze the effect of environmental changes on multi-hazard risk assessment and management by using their particular scientific knowledge, methodological approach and experience on hazard processes.



## Language and documentation

All the lessons, materials and documents will be given in English. The practical applications may involve field discussions with the inhabitants and Romanian-to-English translation will be provided.

## Candidate selection

The courses are dedicated to post graduate, master or Ph.D. students, young researchers, showing interest in research topics related to natural hazards and risk assessment. The external students will be chosen on the basis of their CV's. The candidates are requested to fill in the registration form and send it together with the CV and a letter of interest until the 13th of July 2012. Successful candidates will be announced until the 20th of July.

## Registration fees

Registration fee (educational services, teaching materials, accommodation *with full board?* and coffee breaks) for external participants is fixed at **xxxx** EUR.

Registration fee can be paid on site or **XXXXX**.



## Local organizing committee:

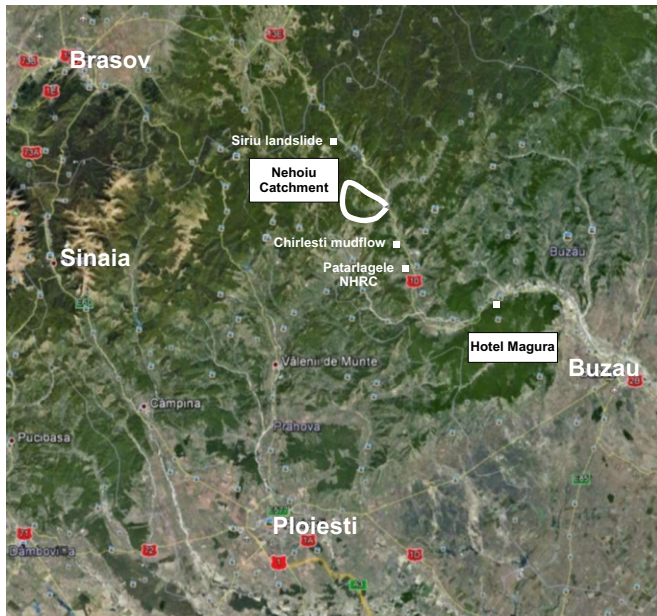
Dan Bălțeanu  
Mihai Micu  
Veronica Zumpano

## Teaching team

**Thom Bogaard**, Technical University Delft, Netherlands;  
**Stefan Greiving**, Technical University Dortmund, Germany;  
**Thomas Glade**, University of Vienna, Austria;  
**Dagmar Schrotter**, International Institute for Applied Systems Analysis, Austria;  
**Cees Van Westen**, Faculty of Geo-Information Science and Earth Observation (ITC), University of Twente, Netherlands;  
**Dan Balteanu**, Institute of Geography, Romanian Academy, Romania  
**Mihai Micu**, Institute of Geography, Romanian Academy, Romania

## Venue

Magura Hotel (Magura, Buzau County); [www.complexmagura.ro](http://www.complexmagura.ro)



## Programme

### Monday, 10 09 2012 (CHANGES only)

arrival of the participants

### Tuesday, 11 09 2012

(9.00-18.30 CHANGES only; 18.30: CHANGES and external participants)

9.00 - 10.30 Organizational aspects; Financial reports;

10.30-11.00 *Coffee Break*;

11.00-13.00 ESR 1-12 Presentation on the progress of their research ;

13.00-14.00 *Lunch Break*;

14.00-16.00 Stakeholders meeting;

16.00-16.30 *Coffee Break*;

16.30-19.00 Informal discussions between ESRs and supervisors;

### Wednesday, 12 09 2012

9.00-10.30 Professional skills course: Dissemination of the results to the public (TUD);

10.30-11.00 *Coffee break*;

11.00-12.30 Professional skills course: Writing grant proposals (TUDO);

12.30-13.30 *Lunch*;

13.30 - 15.00 Technical skills course: Monitoring and prediction of environmental changes; **Part 1**: monitoring techniques for mass movements and flooding ( IIASA and UNIVIE);

15.00-15.30 *Coffee break*;

15.30-17.00 Technical skills course: Monitoring and prediction of environmental changes; **Part 2**: monitoring techniques for land use changes (IIASA and UNIVIE);

Evening: Steering Committee meeting; ESR and external participants joint discussions;

19.00 *Dinner*.

### Thursday, 13 09 2012

9.00 - 10.30 Technical skills course: Monitoring and prediction of environmental changes; **Part 3**: prediction of land use changes ( IIASA and UNIVIE);

10.30-11.00 *Coffee break*;

11.00 - 12.30 Field project related to TS Course: analyzing the effect of changes in the Nehoiu catchment; Introduction to the field exercise; Introduction to the use of image processing / GIS tools that will be used;

12.30-13.30 *Lunch*;

13.30 - 17.00 Field trip/explanations along Buzau Valley (Patarlagele Natural Hazards Research Center, Chirlesti mudflow, Siriu landslide;

17.00 – 19.30 Team work (focusing on Nehoiu Catchment and using existing images and data) on the following topics: landslide mapping, land-use mapping, building mapping, landslide hazard evaluation, flood hazard evaluation;

19.30 *Dinner*.

### Friday, 14 09 2012

9.00 - 14.00 **Field work**: Nehoiu catchment. General explanation and division into groups. The groups will work by themselves in the study area, and will update the maps on landslides, floods, land use, buildings, population. Lunch box in the field;

15.00-19.00 **Scenario development**: groups will work on possible scenarios for land use change, changes in buildings/population, and risk reduction measures. The groups will work on a scenario and analyze its effects in terms of risk;

19.30 *Dinner*.

### Saturday, 15 09 2012

8.30-11.30 Presentation of results by the groups. Field-work results discussions;

11.30-12.00 *Short Lunch Break*;

12.00 Departure for Bucharest (expected arrival at Otopeni Henri Coanda Intl. Airport: 15.00-16.00).

## Registration form

First name: .....

Last name: .....

Birth date: .....

Nationality: .....

Position: .....

Organization: .....

Address: .....

City: .....

Phone: .....

E-mail: .....

## Contact person

Dan Bălteanu

E-mail: [igar@geoinst.ro](mailto:igar@geoinst.ro)

Mihai Micu

E-mail: [igar@geoinst.ro](mailto:igar@geoinst.ro)

Institute of Geography, Romanian Academy  
Dimitrie Racovita 12, Sect.2. Bucharest 023993,  
ROMANIA  
[www.geoinst.ro](http://www.geoinst.ro)