

IAG Executive Committee (2005-2009)

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Vice-President:	Prof. FRANCK AUDEMARD (Venezuela) - Latin America
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IMPORTANT DATES

September 15, 2008	Opening of the Conference Desk
September 16, 2008	One-day pre-conference field trip
September, 17, 2008	Conference opening
September 19, 2008	Conference closing
September 19, 2008	Afternoon-excursion
September 20, 2008	First day of post-conference field trips 3 and 4 (Vertical Zonation and Large landslides)
	First day of the Summer School for Young Geomorphologists
September 23, 2008	First day of the post-conference field trip 5 (Danube Delta)
September 26, 2008	End of activities

CORRESPONDENCE ADDRESSES:

Conference Secretariat

Institute of Geography, Romanian Academy,

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This book includes the programme of three financed Workshops; the Organizing Committee is grateful to the following institutions for their financial support to the 2008 IAG Regional Conference:

National Council of Scientific Research of Higher Education (CNCSIS) / UEFISCSU, in the framework of the – PN II IDEI programme, through the Project on the Exploratory Workshop *Climate Change and Extreme Events in Mountain Regions* no. 24/26.08.2008, coordinator: Institute of Geography;

National Council of Scientific Research of Higher Education (CNCSIS) (MECT-ANCS) / UEFISCSU through the Project *Elaboration of hazard and environmental quality maps in the mining areas of the Maramureş and Satu Mare counties using GIS*, no. 14GR/5.05.2006, coordinator: Institute of Geography;

Symposium of the framework of the *Summer School for Young Geomorphologists*, entitled *Environmental Hazards and Sustainable Development in Mountain Regions*, financed by the Ministry of Education, Research and Youth, (MECT), the National Authority for Scientific Research (ANCS).

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Local Scientific Committee:

Prof. Vasile Abrudan (Faculty of Silviculture and Forest Engineering, Transilvania University Braşov)

Prof. Dan Bălteanu (Institute of Geography, Romanian Academy)

Prof. Costică Brânduş (Faculty of History and Geography, University “Ştefan cel Mare” of Suceava)

Assoc. Prof. Marian Ene (AGR, Faculty of Geography, University of Bucharest)

Prof. Florina Grecu (Faculty of Geography, University of Bucharest)

Prof. Mihai Ielenicz (Faculty of Geography, University of Bucharest)

Prof. Ion Ioniţă (Faculty of Geography, University “Al. I. Cuza” of Iaşi)

Prof. Nicolae Josan (President of AGR, Faculty of History, Geography and International Relationships, University of Oradea)

Assoc. Prof. Alexandru Nedelea (Faculty of Geography, University of Bucharest)

Prof. Dan Petrea (Faculty of Geography, Babeş-Bolyai University, Cluj-Napoca)

Prof. Virgil Surdeanu (Faculty of Geography, Babeş-Bolyai University, Cluj-Napoca)

Prof. Petru Urdea (Faculty of Geography, West University of Timișoara)

Organized by:

Institute of Geography, Romanian Academy

Faculty of Silviculture and Forest Engineering, University Transilvania of Braşov

In collaboration with:

Faculty of Geography, University of Bucharest

Faculty of Geography, Babeş-Bolyai University, Cluj-Napoca

Faculty of Chemistry-Biology-Geography, West University of Timișoara

Faculty of History-Geography, University of Oradea

Local Organizers:**Chair:**

Prof. Dan Bălteanu

Secretary:

Marta Jurchescu

Scientific Sessions:

Prof. Vasile Abrudan, Dr. Basarab Driga, Marta Jurchescu, Mihai Micu, Dr. Ines Grigorescu

Field Trips Scientific Program Coordinators:

Prof. Virgil Surdeanu, Prof. Petru Urdea, Mihai Micu, Assoc. Prof. Alexandru Nedelea, Dănuț Călin.

Treasurer:

Maria David

Collaborators:

Titu Anghel, Mioara Chiaburu, Zenaida Chițu, Daniel Ciupitu, Nicoleta Damian, Diana Dogaru, Marius Dulgheru, Dr. Monica Dumitrașcu, Cristina Dumitrică, Lidia Garbiz, Dr. Ines Grigorescu, Viorel Ilinca, Iulia Jivănescu, Mihaela Licurici, Hermine Maersohn, Loredana Mic, Dana Micu, Doru Mihai, Cristian Moise, Laurențiu Niculescu, Olimpiu Pop, Todică Sandu, Valentina Stoica

Summer School for Young Geomorphologists:

Prof. Dan Bălteanu, Prof. Lucian Badea,

Cultural programme:

Cristina Dumitrică, Hermine Maersohn

CONFERENCE DESK

The Conference Desk (on the first floor) will be opened on September 15, 2008 and will continue until September, 19.

The Conference Desk will function for participants registration, financial operations, handing of the conference materials, organization of the scientific sessions.

On-Site Registration will be done at the Conference Desk.

Confirmation of participation and payment

The “Simion Mehedinți” Foundation will offer a written confirmation to all registered participants.

Cancellations

Cancellations received after September 11, 2008 will get no refund.

All the refunds will be made after the Conference.

STRUCTURE OF THE CONFERENCE

The Conference will include meetings of the Executive Committee of the International Association of Geomorphologists, of the Romanian Association of Geomorphologists, of the Carpatho-Balkan Geomorphological Commission, scientific sessions with oral presentations and posters, plenary lectures, field trips, a summer school for young geomorphologists, cultural excursions and a welcome party.

Conference Programme

Monday, September 15

9:30-19:00 Meeting of the IAG Executive Committee

Opening of the Conference Desk, Registration of the participants (continued until September 19)

Tuesday, September 16

Pre-conference field trip

Departure at 9:00 in the parking area in front of the Capitol Hotel

Functioning of the Conference Desk

Wednesday, September 17

8:30- *Opening of the Conference Desk*

9:30-10:00 Opening Ceremony

CLIMATE CHANGE AND EXTREME EVENTS IN MOUNTAIN REGIONS

10:00-10:30 Presidential lecture by Prof. Andrew Goudie

10:30-11:00 Plenary lecture by Prof. Dan Bălteanu

11:00-11:30 Coffee break

11:30-12:00 Plenary lecture by Prof. Monique Fort

12:00-12:30 Plenary lecture by Prof. Michael Crozier

13:00-15:00 Lunch

15:00-16:30 Oral sessions and thematic workshops

16:30-17:00 Coffee Break

17:00-18:30 Oral sessions, poster sessions and thematic workshops

19:00- Welcome party

Thursday, September 18

9:00-11:00 Exploratory Workshop, oral and poster sessions

11:00-11:30 Coffee break

11:30-13:00 Poster sessions, Working Group activities

13:00-15:00 Lunch

15:00-16:30 Oral sessions, Working Group activities

16:30-17:00 Coffee Break

17:00-19:30 Exploratory Workshop, poster sessions, Working Group activities

Friday, September 19

9:00-10:30 Oral and poster sessions, Working Group activities
10:30- 11:00 IAG Training activities – Presentation by Mauro Soldati
11:15-11:45 Closing Ceremony
12:00-14:00 Lunch
15:00-20:00 Afternoon excursion
20:30- Conference Dinner

Saturday, September 20

Beginning of:

Post-conference field-trips. Departure at 8:30 in the parking area in front of the Capitol Hotel

International Summer School for Young Geomorphologists

SCIENTIFIC PROGRAMME

GENERAL SCIENTIFIC PROGRAM

Plenary Lectures

Presidential Plenary Lecture:

Prof. Andrew Goudie (Oxford University Centre for Environment, UK), *Future climate change and geomorphological hazards.*

Key-lectures:

Prof. Dan Bălțeanu, Viroel Chendeș, Mihaela Sima, Petru Enciu (Institute of Geography, Romanian Academy, Romania)

A country level spatial assessment of landslides in Romania

Prof. Monique Fort, Etienne Cossart, Gilles Arnaud-Fassetta (Université Paris-Diderot, Paris 17, France), *Landslides, floods and threats to future engineering structures and settlements in a developing country: the Kali Gandaki valley case study, Nepal Himalayas.*

Prof. Michael Crozier (Institute of Geography, School of Earth Sciences, New Zealand), *The Impact of global change and geomorphic systems*

Dr. Irasema Alcántara Ayala (Instituto de Geografía, Universidad Nacional Autónoma de México, Mexico), *Landslides and Extreme Events in Mountain Regions of Mexico: Climate Change or Human Induced?*

Prof. Jean-Nöel Salomon (L'Université Michel de Montaigne-Bordeaux, Institut de Géographie, France), *Inondations torrentielles en zones montagneuses du golfe du Mexique.*

Prof. Franck Audemard (Funvisis, Earth Sciences Dept., Venezuela), Christian Beck (Université de Savoie, France) and Eduardo Carrillo (Univ. Central de Venezuela, Venezuela): *Very large slope instabilities in deposits of the last glaciation, triggered by the Boconó fault, in the Mérida Andes highlands, Western Venezuela.*+

Prof. Vladimir Ruben Boynagryan (Yerevan State University, Armenia): *Landslides in Armenia.*

Sessions and conveners

S1 Landslide Mapping and Susceptibility Assessment

Florina Grecu, Inna Vitalyevna Nikonorova
Maria Sandu, Kamel Hachemi

S2 Floods: From Process to Risk Assessment and Management

Zbigniew Zwoliński, Fantima Tedim

S3 River Geomorphology and Sediment Dynamics

Ion Ioniță, Paolo Billi
K. Kirchner, M. Rădoane

S4 Investigation of Historic and Prehistoric Mass Movements

Piotr Migon

S5 Hazards and Environmental Change

David Higgitt, Leszek Starkel

S6 Techniques and Methods for Hazard Assessment

Tomas Pánek, Virgil Surdeanu
Adrian Cioacă

Working Group Sessions:

WG1: Geomorphological Hazards between Theory and Practice

chair: Irasema Alcántara Ayala

WG2: Geomorphology and Society

chair: Emmanuel Reynard and Eric Fouache;

WG3: Human Impact on the Landscape

chair: Denes Loczy;

WG4: The Third Joint Council Meeting of the IAG/AIG Carpatho-Balkan-Dinaric Regional Working Group and the Carpatho-Balkan Geomorphological Commission –

chair: Milos Stankoviansky;

Special Workshops:

W1: Climate Change and Extreme Events in Mountain Regions

chair: Andrew Goudie, Jean-Noël Salomon

W2: Hazard Assessment in Mining Areas using GIS

chair: Basarab Driga, Camelia Varga

Language

English and French will be the official languages of the Conference.

GUIDELINES FOR PRESENTING AUTHORS

-Authors that have oral presentations in the programme, are advised to deliver their Power Point files to the indicated person at the Conference desk one hour before their presentation.

-Oral presentations should not exceed 15 minutes (including discussions).

-Posters should be delivered to the indicated person at the Conference desk a day before that of their presentation. The ones presenting on the first day (Wednesday, September 17) must deliver the material during the morning.

MEETING OF CBGC (Carpatho-Balkan Geomorphological Commission)

Room SALA CONSILIU, Thursday, September 18, 15:00-16:30

MEETING OF AGR (Romanian Association of Geomorphologists)

Room SALA CONSILIU, Thursday, September 19, 9:00-11:00

IAG TRAINING ACTIVITIES

Room S II 1, Friday, September 19, 10:30-11:00

Presentation by **Prof. Mauro Soldati** (Training Officer of IAG, University of Modena and Reggio Emilia, Italy)

INTERNATIONAL SUMMER SCHOOL FOR YOUNG GEOMORPHOLOGISTS

Courses and field trips for young geomorphologists at Pătârlagele (Buzău County); the 8th edition of the Summer School

Organizers: Prof. Dan Bălteanu, Prof. Lucian Badea (Institute of Geography, Romanian Academy)

Program:

September 20-22. Students attending the Summer School will have common program with participants in Excursion 4 until Monday, September 22 (five overnights in Pătârlagele).

September 23 Lectures at the Pătârlagele Research Station; field application:

Landslides in the hilly region of Subcarpathians

September 24 Lectures at the Pătârlagele Research Station; field applications:

Landslides and floods in the flysch mountains

September 25 Departure

IAG GRANTS FOR YOUNG GEOMORPHOLOGISTS

IAG offered 3 grants of 500 euros each to support the participation in the Regional Conference and in the Summer School of young geomorphologists world-wide. The Organising Committee of the Conference will waive the registration fees for the Conference and for the International Summer School to the IAG grant winners.

SOCIAL PROGRAMME

Organizers: Cristina Dumitrică, Hermine Maersohn

Wednesday, September 17 9:00-13:00

Thursday, September 18 9:00-13:00

FIELD TRIPS

PRE-CONFERENCE ONE-DAY-FIELD TRIP

Tuesday, September 16:

1. Braşov – Predeal - Pârâul Rece – Bran – Braşov - Climate Change, landscape and tourist activities.

Organizers: Bogdan Mihai, Victor Păcurar

Start: 9:00

Meeting point: parking area in front of the Capitol Hotel

AFTERNOON FIELD TRIP

Friday, September, 19

2: Braşov - Poiana Braşov - Braşov. *Special dinner.*

Organizers: Bogdan Mihai, Victor Păcurar

Start: 15:00

Meeting point: parking area in front of the Capitol Hotel

POST-CONFERENCE FIELD TRIPS

Saturday, September 20 to Monday, September 22:

Excursion 3. Vertical Zonation of Floods and Mass Movements in the Carpathian Mountains: day 1 Braşov – Saschiz – Sighişoara – Apold – Sibiu; day 2 Sibiu – Transfăgărăşan – Bâlea Lake – Vidraru Dam – Olăneşti; day 3 Olăneşti – Ocele Mari – Tigveni – Curtea de Argeş – Telega – Bucureşti: Landslides and floods in the Transylvanian Depression, the Făgăraş Mountains (Transylvanian Alps), the Getic Subcarpathians and Piedmont.

Organizers: Virgil Surdeanu, Petre Urdea, Dănuţ Călin

Start: 8:30

Meeting point: parking area in front of the Capitol Hotel

Overnights:

September, 20. Sibiu, Hotel Apolo Hermannstadt

September, 21. Olăneşti, Hotel Suprem

September, 22. Bucharest, Hotel Ambassador

Excursion 4. Large Landslides , Floods and Seismic Activity: day 1 Braşov – Sighişoara – Siriu Reservoir – Cislău; day 2 Cislău – Chirleşti – Malu Alb – Pătârlagele – Cislău; day 3 Cislău – Berca – Sărăţel Basin – Poseşti – Telega – Bucureşti: Curvature: Carpathians and Subcarpathians. The Vrancea Seismogenic Region: earthquake-induced landslides, slope instability along large reservoirs, mass movements related to extreme rainfalls, active faults and mud volcanoes.

Organizers: Mihai Micu, Marta Jurchescu

Start: 8:30

Meeting point: parking area in front of the Capitol Hotel

Overnights:

September, 20. Cislău, Hotel 2D/Ciuta, Hotel Ciuta

September, 21. Cislău, Hotel 2D/Ciuta, Hotel Ciuta

September, 22. Bucharest, Hotel Ambassador

Tuesday, September 23 to Friday, September 26:

Excursion 5. The Danube Delta. Bucharest, Tulcea, Sulina. Objectives of the excursion: Evolution of Danube Delta in relation to sea-level rise; deltaic and lagunary relief; deltaic accumulation and erosional coasts; deltaic geomorphological processes and human-induced changes; transboundary issues of the Danube Delta

Organizer: Costică Brânduș

Programme schedule
Wednesday, September 17

Rooms	S II 1 (second floor)	SALA CONSILIU Ground floor	S I 2 (first floor)	S I 4 (first floor)	S I 8 (first floor)
From 8:30	Conference Desk				
9:30-10:00	Opening Ceremony				
10:00-10:30	Presidential lecture by Prof. Andrew Goudie				
10:30-11:00	Key lecture by Prof. Dan Bălteanu				
11:00-11:30	<i>COFFEE BREAK</i>				
11:30-12:00	Key lecture by Prof. Monique Fort				
12:00-12:30	Key lecture by Prof. Michael Crozier				
13:00-15:00	<i>LUNCH</i>				
15:00-16:30			S1 Landslides	S2 Floods	W2 (Hazard-mining)
16:30-17:00	<i>COFFEE BREAK</i>				
17:00-17:30			S1 Landslides (Posters)	S3 River&Sediments	W2 (Hazard-mining)
17:30-18:30			Discussions and Conclusions		W2 (Hazard-mining) (Posters) Discussions and Conclusions
19:30-	<i>WELCOME PARTY</i>				

Thursday, September 18

Rooms	S II 1 (second floor)	SALA CONSILIU (Ground floor)	S I 2 (first floor)	S I 4 (first floor)	S I 8 (first floor)
9:00-9:30	Key lecture by Dr. Irasema Alcántara-Ayala				
9:30-10:00	Key lecture by Prof. Franck Audemard				
10:00-11:00			S4 Hist&Prehist. Landsl.	S3 River& Sediments	
11:00-11:30	<i>COFFEE BREAK</i>				
11:30-12:30			WG1 Geom. Hazards	S3 River&Sediments (Posters) Discussions and Conclusions	WG2 Geom. and Soc.
12:30-13:00					
13:00-15:00	<i>LUNCH</i>				
15:00-16:00		Meeting of CBGM			WG2 Geom. and Soc
16:00-16:30			WG1 Geom. Hazards (Posters) Discussions and Conclusions		WG2 Geom. and Soc (Posters) Discussions and Conclusions
16:30-17:00	<i>COFFEE BREAK</i>				
17:00-18:00			S5 Hazard&Environm. Change	WG4. Carp-Balc-Din	WG3 Human Impact
18:00-18:30					WG3 Human Impact (Posters) Discussions and Conclusions
18:30-19:00	Key lecture by Prof. Jean-Noel Salomon		S5 Hazard&Environm. Change (Posters) Discussions and Conclusions		
19:00-19:30	Key lecture by Prof. Vladimir Boynagryan				

Friday, September 19

Rooms	S II 1 (second floor)	SALA CONSILIU Ground floor	S I 2 (first floor)	S I 4 (first floor)	S I 8 (first floor)
9:00-10:00		Meeting of AGR	WG4. Carp-Balc-Din (Posters) Discussions and Conclusions	S6 Hazard Assessment	
10:00-11:00				S6 Hazard Assessment (Posters) Discussions and Conclusions	
	IAG Traning Activities (Prof. Mauro Soldati)				
11:15-11:45	CLOSING CEREMONY				
12:00-14:00	<i>LUNCH</i>				

W1 CLIMATE CHANGE AND EXTREME EVENTS IN MOUNTAIN REGIONS

Chair: Andrew Goudie

Plenary lectures (Room S II 1 –Emil Negulescu, Wednesday, September 17)

Presidential Plenary Lecture:

10:00-10:30 Prof. ANDREW GOUDIE (Oxford University Centre for Environment, UK), *Future climate change and geomorphological hazards.*

Key-lectures:

10:30-11:00 Prof. DAN BĂLTEANU, Viorel Chendeş, Mihaela Sima, Petru Enciu (Institute of Geography, Romanian Academy, Romania)
A country level spatial assessment of landslides in Romania

11:30-12:00 Prof. MONIQUE FORT, Etienne Cossart, Gilles Arnaud-Fassetta (Université Paris, France), *Landslides, floods and threats to future engineering structures and settlements in a developing country: the Kali Gandaki valley case study, Nepal Himalayas.*

12:00-12:30 Prof. MICHAEL CROZIER (Institute of Geography, School of Earth Sciences, New Zealand), *The Impact of global change on geomorphic systems*

Plenary lectures (Room S II 1 –Emil Negulescu, Thursday, September 18)

Chair: Jean-Nöel Salomon

9:00-9:30 Dr. IRASEMA ALCÁNTARA AYALA (Universidad Nacional Autónoma de México Instituto de Geografía, Mexico), *Landslides and Extreme Events in Mountain Regions of Mexico: Climate Change or Human Induced?*

9:30-10:00 Prof. JEAN-NÖEL SALOMON (L'Université Michel de Montaigne-Bordeaux, Institut de Géographie, France), *Inondations torrentielles en zones montagneuses du golfe du Mexique.*

18:30-19:00 Prof. FRANCK AUDEMARD (Funvisis, Earth Sciences Dept., Venezuela), Christian Beck (Université de Savoie, France) and Eduardo Carrillo (Univ. Central de Venezuela, Venezuela): *Very large slope instabilities in deposits of the last glaciation, triggered by the Boconó fault, in the Mérida Andes highlands, Western Venezuela.*

19:00-19:30 Prof. VLADIMIR RUBEN BOYNAGRYAN (Yerevan State University, Armenia): *Landslides in Armenia.*

W2 HAZARD ASSESSMENT IN MINING AREAS USING GIS

Organized by: Institute of Geography, Romanian Academy (coordinator)
Research Institute for Analytical Instrumentation (ICIA)
North University of Baia Mare (UNBM)
Faculty for Environmental Sciences, Babeş-Bolyai University of Cluj-Napoca
S.C.Geoproiect S.R.L. Baia Mare

Oral presentations

Room S I 8, Wednesday, September 17, 15:00-17:30

Chair: Basarab Driga, Camelia Varga

C. VARGA, M. MARIAN, L. MIHALY COMUTA and A. MIHALY COZMUTA
Bio-accumulation of heavy metals in tailings dam vegetal species.

M. IELENICZ and C. NISTOR
Mass movements in Oltenia area affected by mining activities.

V. SURDEANU, M. DULGHERU, O. POP, T. ANGHEL and S. TODICĂ
Spatial and temporal activity of landslides using dendrogeomorphological methods in the Călimani mining area (România).

K. BALÁZSI,
Geomorphic processes induced by anthropic activities in surface coal-mining areas. Case study - Baraolt basin, România.

C. S. DRAGOTĂ and D. MICU,
Spatial-temporal variability of precipitation quantities in mining areas (Maramureş and Satu Mare counties).

D. ILIEŞ, I. RUS, N. JOSAN and L. BLAGA
Landscape changes induced by mining exploitations on the western side of the Apuseni Mountains (Plopiş sector).

M. MARIAN, C. VARGA, L. MIHALY COZMUTA and A. MIHALY COZMUTA
Growth particularities of vegetal species in a heavy metal-bearing soil.

E. NOUR, L. MIHALY COZMUTA, C. VARGA and M. MARIAN
Some considerations on protection against hazards.

Poster presentations

Room S I 8, Wednesday, September 17, 17:30-18:30

Chair: Basarab Driga, Camelia Varga

V. ARGHIUŞ, AL. OZUNU, C. ARGHIUŞ and L. ŞTEFĂNESCU
Damages associated to 1995-2006 floods and flash-flood in the mountain catchment area of the Arieş and Someşul Mic rivers.

C. COSTAN, A. OZUNU, R. MIHĂIESCU, A. GUȚUȚUI and I. PETRESCU
Technologic risks vulnerability reduction, in the Arieş river basin.

O.C. MODOI, D. COSTIN, A. GUȚUȚUI, AL. OZUNU and I. PETRESCU
The environmental impact of open pit mining exploitation in Baia Mare area.

C. ROMAN, G. PITL, M. SENILA, A.M. INCZE, S. COSTIUG, B. ABRAHAM and E. LEVEI
The influence of mining on surface water quality in the Tarna Mare Basin.

C. ROMAN, G. PITL, M. SENILA, A.M. INCZE, E. LEVEI, S. COSTIUG and B. ABRAHAM
Evaluation of water quality in the Tur Basin.

S1: LANDSLIDE MAPPING AND SUSCEPTIBILITY ASSESSMENT

Oral presentations

Room S I 2, Wednesday, September 17

15:00-16:30

Chairs: Florina Grecu, Inna Vitalyevna Nikonorova

I.V. NIKONOROVA and N.F. PETROV

The landslides of Cheboksary Povolgye and problems of classification of landslide systems.

K. HACHEMI

Apport de l'imagerie radar SAR (images d'amplitudes et de cohérence) pour l'analyse de terrain dans la région de Buzau (Roumanie)

M. VAN DEN EECKHAUT, J. MOEYERSONS, J. NYSSSEN, A. ABRAHA, J. POESEN, M. HAILE and J. DECKERS

Prediction of landslide locations in areas with limited data availability: A case-study in the Northern Ethiopian highlands.

A. BADEA, C. MOISE, L. BADEA, M. DORU

GIS techniques for the elaboration of geomorphic maps

J.-F. PARROT and V. OCHOA-TEJEDA

Active landslide traces in mountainous areas extracted by using high resolution satellite images and high resolution DEM.

M. VAN DEN EECKHAUT, P. REICHENBACH, F. GUZZETTI, A. CARRARA, M. ROSSI and J. POESEN.

Landslide susceptibility zonation using multiple statistical models and different mapping units: A case-study in the Flemish Ardennes, Belgium.

Poster presentations

Room S I 2, Wednesday, September 17

17:00-18:30

Chairs: Maria Sandu, Kamel Hachemi

P. P. C. AUCCELI, D. BĂLTEANU, G. DI PAOLA and C. M. ROSSKOPF

Landslide processes in mountain regions and their role in the landscape evolution: case study: Molise region.

M. COSTEA

Susceptibility of slopes to landslides case study: Secaşul Mare basin (Southern Carpathians).

F. GRECU and L. COMĂNESCU

Landslides hazards in the Hârtibaciu Tableland (Transylvanian Depression).

Z. PREFAC, C. BRÂNDUŞ, M. POPESCU and G.M. CRACU

Landslide susceptibility assessment. A Romanian case study - The Subcarpathian Basin of the Râmna River.

M. SANDU

Present-day geomorphological process and environmental change in the Sibiu-Apold
Depressionary Passageway (SW Transylvanian Tableland).

O. MAGRI, A. BENITO, A. PASUTO and M. SOLDATI

A GIS-based approach to landslide mapping and digital elevation modelling for the north-west
coastal region of Malta.

I. ŞANDRIC, Z. CHIŢU, B. MIHAI and I. SĂVULESCU

Mapping landslides using high resolution aerial images.

C. TUDOSE, M. VIŞAN

Estimation of slope stability in the Subcarpathians Curvature based on DEM

S2: FLOODS - FROM PROCESS TO RISK ASSESSMENT AND MANAGEMENT

Oral presentations

Room S I 4, Wednesday, September 17, 15.00-16:30

Chairs: Zbigniew Zwoliński, Fantima Tedim

TEDIM and CARVALHO

The integration of flood risk management in land-use planning in Portugal

Z. ZWOLIŃSKI, J. TYLKOWSKI, M. DOMAŃSKA, A. KOSTRZEWSKI, A. STACH and J. SZPIKOWSKI

Snowmelt flood and sediment flow in a steep lowland catchment: The Parsęta River, Poland.

M. LEHOTSKÝ, J. NOVOTNÝ and J. SZMAŃDA

Flooding and geomorphic evolution of modern floodplain – case study of the Danube River downstream of the Devínska Brána gate.

S. BILAŞCO

A GIS model of discharge accumulation to prevent hydrologic risks. Case-study: the Someşul Mic upper basin

M. NIKOLOVA, S. NEDKOV and V. NIKOLOV

Implementation of the “KINEROS” model for estimation of the flood prone territories in the Ravna River basin.

S. BOENGIU, M. LICURICI and O. IONUŞ

Natural and man-induced hazards along the Danube, between Rast and Gighera settlements.

S3: RIVER GEOMORPHOLOGY; SOIL AND SEDIMENT DYNAMICS

Oral presentations

Room S I 4, Wednesday, September 17, 17:00-18:30

Room S I 4, Thursday, September 18, 10:00-11:00

Chairs: Ion Ioniță, Paolo Billi

P. BILLI and E. PRECISO

Step-pool sequences of steep mountain streams. A review of their characteristics and origin.

H. SHIMAZU

Torrential flood and transport processes of huge debris in Japanese Mountain River Basins.

V. PĂCURAR

A quantitative method for estimating soil erosion risk in Romanian mountain watersheds based on RUSLE relationships

A. GREŠKOVÁ and M. LEHOTSKÝ

Coupling mechanisms of mountainous fluvial system and its geomorphic response to windblown forest - Case-study: The Studený Potok torrent (Tatra Mts., Slovakia).

I. IONIȚĂ and R. M. MĂRGINEANU

Assessment of recent sedimentation within the southern part of the Moldavian Plateau.

G. PANDI and I. IRIMUȘ

Hydrological and geomorphological analysis of river bed dynamic. Case study of Someș River.

V. SMOLKOVÁ, T. PÁNEK and J. HRADECKÝ

Slope deformations in the valley floor: A source of information on the Holocene relief development.

P.D. VAN, TRI and A.P. CARLING

To develop a method to identify the roughness trends of a bifurcation river network.

C. BRÂNDUȘ and I. CRISTEA

Some correlations between the microrelief of floodplains and the granulometry of alluvial deposits.

F. HARTVICH

Significance of flood sediments characteristics along a mountain stream.

Poster presentations

Room S I 4, Thursday, September 18, 11:30-13:00

Chairs: K. Kirchner, M. Rădoane

H. SHIMAZU

Floodplain dynamics and vegetation diversity in the mountain river valley of Japan Alps.

K. KIRCHNER, L. PETERKOVÁ, S. NEHYBA and F. HUBATKA.
Geomorphic development of the middle part of the Svratka River Valley.

A. RADECKI-PAWLIK, B. WYZGA and J. ZAWIEJSKA
Characterizing the amount and hydraulic importance of channel incision: examples from the polish Carpathian Rivers.

M. RĂDOANE, N. RĂDOANE, I. CRISTEA and D. GANCEVICI-OPREA
Contemporary channel changes of the Prut River on the Romanian border.

T. BUGYA, I. P. KOVÁCS
Utilization of geoinformation methods in the morphometric analysis. Case study: Somló territory

S4 INVESTIGATION OF HISTORIC AND PREHISTORIC MASS MOVEMENTS

Oral presentations

Room S I 2, Thursday, September 18, 10.00-11:00

Chairs: Piotr Migon, Kuo-Jen Chang

K.-J. CHANG, Y.-C. CHAN, R.-F. CHEN and Y.-C. HSIEH.

Restoration and evolution of large-scale paleo-landslides in the Chinshan volcanic area, Northern Taiwan.

R.-F. CHEN, K.-J. CHANG, Y.-C. CHAN, H. Y. LEE and J. ANGELIER

Monitoring surface changes induced by landslide events based on sediment transport and DEM analysis.

P. MIGOŃ, T. PÁNEK, J. HRADECKÝ, I. MALIK and P. OWCZAREK

Complex landslide terrain in the middle Sudetes, SW Poland.

K. ŠILHÁN and T. PÁNEK

Geomorphological evidence of fossil debris flows in the Czech part of the flysch Carpathians.

S5 HAZARDS AND ENVIRONMENTAL CHANGE

Oral presentations:

Room S I 2, Thursday, September 18, 17:00-18:30

Chairs: David Higgitt, Leszek Starkel

Key lecture

L. STARKEL *Searching for regularities of slope modelling by extreme events (diversity of rainfall intensity – duration and physical properties of the substrate).*

D. HIGGITT

Environmental Hazards and Sustainability: What role for geomorphology

U. MOHAMMED

Overview of past and present climates and environments on the ethiopian highlands: implication for natural disasters

F. VARGHESE

Innate and eco-friendly solution for land slides and soil attrition using coir geo-textiles

Poster presentations:

Room S I 2, Thursday, September 18, 18:30-19:30

Chairs: David Higgitt, Leszek Starkel

C. M. GARCIA, CARRIJO

Geomorphology of Parana - A field study

GRANDJEAN, CERDAN, RICHARD, VAN WESEMAEL, LAMBOT, CARRÉ, MAFTEI, HERMANN, THORNELOF, CHIARANTINI, MORETTI

DIGISOIL-An integrated system of data collection technologies for mapping soil properties

A. MANCIA

Sustainability for soil and water management.

S6 TECHNIQUES AND METHODS IN HAZARD ASSESSMENT

Room S I 4, Friday, September 19, 9:00-10:00

Chairs: Tomas Pánek, Virgil Surdeanu

Oral presentations

T. PÁNEK, J. HRADECKÝ, V. SMOLKOVÁ and K. ŠILHÁN

Long-term evolution of deep-seated slope failure in the Crimean Mountains (Ukraine): Estimation based on radiocarbon and U/TH-series datings.

K. HACHEMI

Apport de l'interférométrie radar SAR pour la réalisation d'un MNT (model numérique de terrain) et la détection des faibles deformations sur la région subcarpatiques de Buzău (Roumanie)

K. HAGEN and P. ANDRECS

From documentation to risk assessment. Experiences based on landslide analyses in the communities of Gasen and Haslau (Styria).

O. POP, I. POPA and V. SURDEANU

Dendrogeomorphological analysis of human-induced debris-flows in the Călimani Mountains (România).

Poster presentations:

Room S I 4, Friday, September 19, 10:00-10:30

Chair: Adrian Cioacă

A. ANDRA, M. MAFTEIU, M. TOPÂRCEANU

The landslides from Bălteni-Tigveni. Characteristics and evolution.

M. CONSTANTIN, M. VLAICU, M. JURCHESCU

The use of extensometers in displacement measurements and time prediction of landslides. Case study: Sibiciu Basin (Buzău Carpathians), Romania

R.-M. MAFTEI, P. CRISTEA, E. RUSU and V. MANJ

Geophysical tests on shallow landslides case study Telega (România).

Working groups

WG1: GEOMORPHOLOGICAL HAZARDS BETWEEN THEORY AND PRACTICE

Oral presentations

Room S I 2, Thursday, September 18, 11.30-12:30

Chairs: Irasema Alcántara Ayala, S. Vlad

F. GUTIÉRREZ, P. LUCHA, J. P. GALVE, R. GÓMEZ

Reconstructing the geochronological evolution of large landslides by the trenching technique in the Yesa Reservoir (Spanish Pyrenees).

G. FUBELLI, C. PUGLISI, F. DRAMIS and G. LEONI

A complex structure-controlled landslide system: the case of the Scorpiano slope (Rossano, Northern Calabria, Italy).

O. MAGRI, M. MANTOVANI, A. PASUTO and M. SOLDATI

The use of multiple techniques in landslide research with reference to coastal lateral spreading in Malta.

Poster presentations

Room S I 2, Thursday, September 18, 16.00-16:30

Chair: Irasema Alcántara Ayala

E. REYNARD, D. THELER and C. LAMBIEL

The contribution of geomorphological mapping to sediment transfer evaluation in small mountain catchments.

S. MARA and S. N. VLAD

Maps of landslide hazard zoning of the Romanian territory at administrative and regional level.

V. ILINCA

Debris flows in the Lotru valley: occurrence and characteristics

M. KOHV, T. HANG and V. KALM

Slope failure in glaciolacustrine clay: Sauga landslide, Western Estonia.

B. KOMAC and M. ZORN

Deterministic and probability modelling of landslide hazard on national scale – the example of Slovenia.

WG2: GEOMORPHOLOGY AND SOCIETY

Oral presentations:

Room S I 8, Thursday, September 18, 11:30-13:00 and 15:00-16:00

Chair: Emmanuel Reynard and Eric Fouache

E. REYNARD

The impact of geomorphology on mountain irrigation channels in Switzerland.

M. HOLUB, W. GASPERL, H. GRUBER, J. HUEBL, C. PUERSTINGER and M. SCHIFFER

2 million. m³ in motion – the land slide in Austria’s torrent “Gschlifgraben” necessitates evacuation of a settlement – A case study.

A. ABDELKADER, F. GRECU, S. BOUREZG, M. HADJAB, A. REDJEM, G. VIŞAN, R. DOBRE and M. VIŞAN

Natural hazards in Bou-Saada urban area, Algeria.

A. CIOACĂ

The management of extreme hydrogeomorphic phenomena at the contact area between the mountain space with the Făgăraş Depression in the Braşov county

M. DINU

Impact of hydrogeomorphic processes upon mountain tourism resources in the Braşov county. Case studies: Breaza and Sâmbăta de Sus

E. FOUACHE, C. FOUACHE and C. SYREN

Sickness country (Kakadu Park, Australia): from reality to myth?

B. ONAC and V. SURDEANU

Contemporary landslide predictability in the contact area of Trascău Mountains with the Transilvanian Basin. Study case: Măhăceni Tableland.

M. L. RODRIGUEZ

Unstable slopes: Assessment and zonation of slide-prone areas for management proposes.

L. TÎRLĂ

The landslides of Băile Olăneşti

Poster presentations:

Room S I 8, Thursday, September 18, 16:00-16:30

Chair: Emmanuel Reynard and Eric Fouache

A. GROZAVU and S. PLEŞCAN

Intégration des indicateurs environnementaux, économiques, sociaux et démographiques dans un modèle d'évaluation de la vulnérabilité.

V. STOICA

Landslide impact on settlement development in the Sărăţel drainage basin.

WG3: HUMAN IMPACT ON THE LANDSCAPE

Oral presentations

Room S I 8, Thursday, September 18, 17:00-18:00

Chair: Denes Loczy

D. LÓCZY

Flood hazard in Hungary

B. MIHAI, E. REYNARD, G. WERREN, I. SĂVULESCU, I. ȘANDRIC and Z. CHIȚU
Impacts of hiking trails on geomorphological processes in the Bucegi Mountains (Romania).

J. HRADECKÝ

Influence of man-made barriers on gravel transport and formation of gravel accumulations and other geomorphic consequences (Western Carpathians, Czech Republic)

M. ZORN and B. KOMAC

Erosion response to land use changes in the last 200 years (Julian Alps, Slovenia).

Poster presentations

Room S I 8, Thursday, September 18, 18:00-19:30

Chairs: Denes Loczy, Ileana Pătru-Stupariu

T. ANGHEL

Ecological rehabilitation of the anthropic relief caused by opencast mining activities in the Motru coal basin (Romania). Application on the Valea Mănăstirii spoil heap.

R. DOBRE and F. GRECU

Integrated relief analysis for the design of transport infrastructure. Case study: Prahova Valley.

M. DULGHERU and M. CHIABURU

Dynamics of the Dipsa river bed (Transylvanian Plain) under influenced anthropic influences.

G. OSACI-COSTACHE and M. CLIUS

Evaluation of land use changes and slope processes on a cartographic basis in Jiblea Depression (România).

E. STOCKER

Geomorphic responses to landuse changes on steep slopes in timberline environment, Central Alps, Austria.

M. STUPARIU, I. PĂTRU-STUPARIU, R. CUCULICI and M. NĂPĂRUȘ

Landscape metrics for assessment of mountain landscape using GIS applications.

WG4: THE THIRD JOINT COUNCIL MEETING OF THE IAG/AIG CARPATHO-BALKAN-DINARIC REGIONAL WORKING GROUP AND THE CARPATHO-BALKAN GEOMORPHOLOGICAL COMMISSION –

Oral presentations

Room S I 4, Thursday, September 18, 17:00-19:00

Chair: Milos Stankoviansky

M. STANKOVIANSKY

Geomorphic effect and environmental impact of muddy floods.

L. BLAGA, D. ILIEȘ, N. JOSAN

The Betfia Landslides (Bihor county, Romania)

N. JOSAN, D. ILIEȘ, L. BLAGA, L. BUCUR

Landslides in Dealurile Vestice geomorphological landscape

K. KIRCHNER and O. KREJČÍ

Geomorphological aspects of landslide hazards in the Outer Western Carpathians.

A. LÉTAL, L. HLADIŠ

Development of gully erosion in the Bílé Karpaty Mts. over the last 200 years.

A V. MUNTEANU and O. G. POP

Complex analyses of avalanche path in Piatra Craiului National Park.

Z. RAČZKOWSKA

Differentiation of the present-day periglacial relief in high mountains of Europe.

Poster presentations

Room S I 2, Friday, September 19, 9:00-10:30

Chairs: Mircea Voiculescu, Alexandru Nedelea

S. FAIVRE, A. BOGNAR, N. BOČIĆ and M. KOVAČIĆ

Pleistocene glaciation traces in the north and central part of the Velebit mountain outer Dinarides, Croatia.

S. M. HUTCHINSON, O. AKINYEMI, M. MÎNDRESCU and J. J. ROTHWELL

Assessing the potential of lake sediment records of environmental change in the Romanian Carpathians. Preliminary data from the Rodna and Maramureș Mountains.

R. OPREA, A. NEDELEA, F. ACHIM

Cryo-nival modeling system. Case study: Bucegi Mountains (Prahova area) and Făgăraș Mountains (Argeș area)

S. SIMONI

The role of periglacial processes in the present morphodynamics of the Doamnei River Basin (Făgăraș Mountains).

M. VOICULESCU and D. GERMAIN

A dendrogeomorphic approach to snow avalanche hazard assessment and management in the Carpathian Mountains, România.

M. ZORN

Measurements of different erosion processes in a Coastal Submediterranean Catchment (SW Slovenia)