PUTTING SCIENCE INTO PRACTICE

Scientific Programme

FAO Headquarters, Rome
3|9 October 2011
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OPENING CEREMONY

9:30-10:30  Welcome from National and International Authorities

Moderator: Dr. Claudio MARGOTTINI,
Chairperson of the Second World Landslide Forum

Dr. Jaques DIOUF United Nations, Director General FAO
Mr. Gianni LETTA Italy, Under-Secretary of State
Mrs. Stefania PRESTIGIACOMO Italy, Minister for Environment, Land and Sea
Mr. Gianni ALEMANNO, Italy, Mayor of Rome
Prof. Bernardo DE Bernardinis, Italy, President of Italian Institute for Environmental Protection and Research (ISPRA)
Mrs. Margareta WAHLSTROM United Nations, Special Representative of the Secretary General for Disaster Risk Reduction
Mr. Badaoui ROUBHAN, UNESCO
Prof. Deliang CHEN, Executive Director of International Council for Science (ICSU)
Prof. Kyoji SASSA, Japan, Executive Director International Consortium on Landslides

10:30 - 11:00  Official Opening of Marketplace

11:00 - 12:30 Lessons from the world - when science and society meet landslides

Moderator: Ms. Ann TUTWILER, FAO, Deputy Director General

Dr. Peter BOBROWSKY, IUGS, Secretary General
Prof. Luciano PICARELLI, ISSMGE/ISRM/IAEG: JTC1 - Joint Technical Committee Natural Slopes and Landslides
Mr. Michael Martin, FAO, Director Forest Economics, Policy and Products Division
Prof. Inesema ALCANTARA-AYALA, Mexico, Universidad Nacional Autonoma de Mexico, Vice President of International Geographical Union
Dr. Philippe BALLY, European Space Agency (ESA)
Dr. N.M.S.I. ARAMBEPOLA Thailand, Asian Disaster Preparedness Centre
Pres. Antonio ABRAMI, IAES, International Academy of Environmental Sciences
Dr. Luca DEMICHELI, EuroGeoSurveys, Secretary General
Prof. Andreas GÖTZ Austria, Chairmen of Alpine Convention
Prof. Dwikorita KARNAWATI Gadjah Mada University, Isram
Pref. Franco GABRIELLI Head Italian Civil Protection Department
Dr Stefano LAPORTA, Italy, ISPRA Director General
Mr. Antonio CONCINA, Italy, Mayor of Orvieto
Mr. Rico RENTUZA Mayor of the Municipality of Saint Bernard, Southern Leyte, Philippines

12:30 - 13:00  Ceremony for 2011 Awards to World Centre of Excellence (WCOE) and successful projects from International Programme on Landslides (IPL)

Moderator: Kyoji SASSA (ICL)

Introduction: Prof. Hans van GINKEL Chair of Independent of Panel of Experts for WCOE, Mr. Badaoui ROUBHAN Chair of IPL-Award for Success Award from Dr. Salvano BRICENO Chair of IPL-Global Promotion Committee

13:00 - 13:30  Special Lecture

Dr. Mounir BOUCHENAKI, ICCROM, Director General of International Centre for the Study of the Preservation and Restoration of Cultural Properties (ICCROM)

ICCROM’s approach to Risks and Natural Disasters

18:00  Welcome party
**Special Lectures**

**Monday 3 October**
Dr. Mounir Bouchenaki

*Director General of International Centre for the Study of the Preservation and Restoration of Cultural Properties (ICCROM)*

**ICCROM’s approach to Risks and Natural Disasters**

Green Room, 13:00-13:30

**Tuesday 4 October**
Dr. Salvano Briceno

*Former Director of United Nations International Strategy for Disaster Reduction (ISDR), Chair of Scientific Committee of Integrated Research on Disaster Risk (IRDR)*

**United Nations International Strategy for Disaster Reduction 2001-2011**

Green Room, 12:30-13:00

**Thursday 6 October**
Prof. Bernardo De Bernardinis

*President of Italian National Institute for Environmental Protection and Research (ISPRA)*

**Policies for land use planning and management in risk areas**

Green Room, 12:30-13:00

**Friday 7 October**
Dr. Yin Yueping

*Director, Hydrogeology and Environmental Geology, China Geological Survey*

**Large infrastructures and environmental policies**

Green Room, 12:30-13:00
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Wednesday 05/10/2011

Thursday 09/10/2011

Friday 07/10/2011
**Philippines Room**

14:30-14:45 **Thomas Hofer**  
*Introduction to the session and presentation of the background paper*

14:45-15:00 **FAO Interdepartmental Working Group on disaster and risk management**  
*FAO disaster and risk management framework: presentation of FAO vision on the prevention and mitigation of adverse effects of natural hazards to provide timely and reliable hazard forecasts*

15:00-15:15 **FAO Interdepartmental Working Group on disaster and risk management**  
*Disaster and Risk Management Cycle put into practice*

15:15-15:30 **Thomas Hofer, and Gérard Marquis**  
*Importance of integrated watershed management in the context of rehabilitation plan, recovery and disaster risk reduction initiatives: the Pakistan example*

15:30-15:45 **Yuri Gorokhovich**, Shannon Doocy, Felix Walyawula, Andrew Muwanga, and Fernando Nardi  
*Landslides in Bududa, Eastern Uganda: preliminary assessment and proposed solutions*

15:45-16:00 **Stephanie Jaquet**, Karen Sudmeier-Rieux, Marc-Henri Derron and Michel Jaboyedoff  
*A Neglected Disaster: Landslides and Livelihoods in Central-Eastern Nepal*

16:00-16:30 **Coffee break**

16:30-16:45 **Prakash Chandra Tiwari**  
*Rainfall Variability, Landslides and Food Security in Himalaya*

16:45-17:00 **Veerle Vanacker**, and Vincent Balthazar  
*Anthropogenic Activity Triggering Landslides in Densely Populated Mountain Areas*

17:00-17:15 **Inam Ur Rahim Inam**  
*Upland Uses and Lowland Effects – Understanding the role of highland cultivation in Swat in the 2010 flood devastation in Northern Pakistan*

17:15-17:30 **Phuntsho Gyeltshen**, and Chencho Norbu  
*Strategies and options to address land degradation due to landslides, the Bhutanese scenarios*

17:30 - 18:00 **Discussion**

**L04 - Landslide inventory and susceptibility and hazard zoning**

Conveners: Javier Hervas, Gabriel Legorreta, Miet Van Den Eeckhaut, Alessandro Trigila

**Green Room**

14:30-14:45 **Hannah Evans**, Catherine Pennington, Claire Foster  
*Mapping a nation’s landslides: a novel multi-stage methodology*
14:45-15:00  **Miet Van Den Eeckhaut**, Norman Kerle, Javier Hervás, Robert Supper
*Mapping of landslides under dense vegetation cover using object-oriented analysis and LiDAR derivatives*

15:00-15:15  Marius Tremblay, Karin Lundström, Victoria Svahn, **Charlotte Cederbom**, Göta Ålv Working Group
*Inventory of landslide risk to limit consequences of climate change*

15:15-15:30  R.M.S. Bandara, **K.M. Weeersinghe**
*Overview of landslide risk reduction studies in Sri Lanka*

15:30-15:45  **Nikolay Petrov**, and Inna Nikonorova
*Landslides in Chuvashia (Russia): types and regional development factors*

15:45-16:00  **Željko Arbanas**, Sanja Dugonjić, Čedomir Benac
*Causes of small scale landslides in flysch deposits of Istria, Croatia*

16:00-16:30  Coffee break

16:30-16:45  **Alessandro Mondini**, Chang Kang-tsung, Hsiao-Yuan Yin, Fausto Guzzetti
*Combining multiple change detection indices for mapping landslides triggered by typhoons*

16:45-17:00  **Seyyedmahdi Hosseyni**, Nobuyuki Torii, Edward N. Bromhead
*Residual strength measurements for some British Clays*

17:00-17:15  **Federico Raspini**, Sandro Moretti, Nicola Casagli
*Landslide mapping using SqueeSAR data: Giampilieri (Italy) case study*

17:15-17:30  Paola Capaldo, Mattia Crespi, Francesca Fratarcangeli, **Andrea Nascetti**, Francesca Pieralico
*Radargrammetric generation of DEMs from high resolution satellite SAR imagery: A new tool for landslide hazard and vulnerability assessment*

17:30-17:45  **Romy Schlögel**, Anika Braun, Almaz Torgoev, Tomas M. Fernandez-Steeger, Hans-Balder Havenith
*Assessment of landslides activity in Maily-Say Valley, Kyrgyz Tien Shan*

17:45-18:00  **M.Somorjit Singh**, **Kuntala Bhusan**, S. Sudhakar
*Landslide Hazard Zonation using RS & GIS techniques - A case study from North East India*

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**L11 – Landslides, transportation network and lifelines**

Conveners: Jordi Corominas, Gian Paolo Giani, Tiziana Apuani

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**Iran Room**

14:30-15:00  **Keynote**
*A. Ferrero*, M. Migliazza
*Landslide Transportation network and lifelines: rockfall and debris flow*

15:00-15:15  **Andrée Blais Stevens**, Panya Lipovsky, Réjean Couture, Marian Kremer and Amaris Page
*Landslide inventory and susceptibility mapping for a proposed pipeline route, Yukon Alaska Highway Corridor, Canada*

15:15-15:30  **Jordi Corominas**, Iñaki Ibarbia, Susana Luzuriaga, José Antonio Navarro, Ioseba Jugo, Carles Jurnet, and Marcel Hürlimann
*Rockfall and debris flow hazard assessment of the coastal road of Gipuzkoa (Northern Spain)*
15:30-15:45  **S.S. Chandrasekaran, S. Elayaraja and S. Renugadevi**  
*Damages to transport facilities by rain fall Induced landslides during November 2009 in Nilgiris, India*

15:45-16:00  **Discussion**

16:00-16:30  **Coffee break**

16:30-16:45  **Franco Oboni, Claudio Angelino, and Bartolomeo Visconti**  
*The Cassas Landslide and its impacts on an international & Olympic transportation corridor: studies, monitoring, solutions and crisis plans*

16:45-17:00  **Marc Janeras, Joan Palau, Elisabet Prat, Judit Pons, Jordi Ripoll, Pere Martinez, and Josep Comellas**  
*Preliminary assessment of rockfall risk mitigation in access infrastructures to Montserrat*

17:00-17:15  **Alessandro Corsini, Francesco Ronchetti, Francesco Bonacini, Paolo Calicetti, Eleonora Bertacchini, Alessandro Capra, Cristina Castagnetti, Riccardo Rivola, Elena Piantelli, Giuseppe Caputo and Giovanni Truffelli**  
*Large-scale slope instability affecting S63 near the Cerreto Pass (northern Apennines, Italy)*

17:15-17:30  **Gianluca Bianchi Fasani, Carlo Esposito, Luca Lenti, Salvatore Martino, Massimo Pecci and Gabriele Scarascia Mugnozza**  
*Seismic analysis of the Gran Sasso catastrophic rockfall (Central Italy)*

17:30-17:45  **Giuseppe Delmonaco, Fabio Garbin, Maria Marsella, Claudio Margottini, Alberico Sonnessa and Daniele Spizzichino**  
*Laser scanning analysis and landslide risk assessment on transportation network: the Lugnano in Teverina (Umbria Region, Italy), landslide case study*

17:45-18:00  **Discussion**

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**L21 – Landslide education, training and capacity development**

Conveners: Dwikorita Karnawati, Surya Prakash

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**German Room**

14:30-14:50  **Keynote**  
**Malcolm G Anderson**  
*Landslide risk reduction in developing countries: Perceptions, successes and future risks for capacity building*

14:50-15:00  **Discussion on keynote lecture**

15:00-15:15  **Dwikorita Karnawati, Wilopo Wahyu, Agung Setianto and Suhanman Suhanman**  
*Student Community Service Program for Landslide Disaster Risk Reduction in Indonesia*

15:15-15:30  **Dwikorita Karnawati, Teuku Faisal Fathani, Budi Andayani and Suhanman Suhanman**  
*Strategic approach for improvement of community resilience in landslide prone area*

15:30-15:45  **Hening Parlan**  
*PASTI (Preparedness Assesment Tools for Indonesia): Diagnost Tools Preparedness Disaster for Indonesia*

15:45-16:00  **Alessandro Petrone and Federico Preti**  
*Soil bioengineering measures in Latin America: authochtonal cuttings suitability*

16:00-16:30  **Coffee break**
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<td>Motoyama Eriko, and Abdullah Che Hassandi</td>
<td>Landslide Public Awareness and Education Programs in Malaysia</td>
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<td>16:45-17:00</td>
<td>Baolin Wang, Mario Ruel, Réjean Couture, Doug Vandine, Peter Bobrowsky and Andrée Blais-stevens</td>
<td>Current status of landslide guidelines around the world</td>
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<td>17:00-17:15</td>
<td>Elizabeth Holcombe and Malcolm Anderson</td>
<td>Learning by doing: Community based landslide risk reduction</td>
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<td>Jog Singh Bhatia</td>
<td>Landslide awareness, preparedness and response management in India</td>
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<td>17:30-17:45</td>
<td>Wolfgang Eder</td>
<td>Improving Public Outreach on Landslide Related Risk - Cooperation with the Planet Earth Institute</td>
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**L22 – Submarine landslides and tsunami**
Conveners: Jacques Locat, Roger Urgeles, Paolo Mazzanti

**Ethiopia Room**

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<tr>
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<td>Maarten Vanneste (Farrokh Nadim)</td>
<td>Submarine landslides and their consequences: What do we know, what can we do?</td>
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<td>15:00-15:15</td>
<td>Roger Urgeles, Angelo Camerlenghi and Francesc Palmer</td>
<td>Slope failures in the continental margins of the Western Mediterranean Sea: Towards understanding of environmental and geologic controls and tsunamigenic potential.</td>
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<td>15:15-15:30</td>
<td>Krastel Sebastian, Winkelmann Daniel, Hanebuth Till, Strasser Michi, Wynn Russell B., and Georgiopoulou Aggeliki</td>
<td>Mass wasting along Atlantic passive continental margins: a comparison between NW-Africa and the de la Plata River region (northern Argentina and Uruguay)</td>
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<td>15:30-15:45</td>
<td>Louise Hansen, Jean Sebastien L’Heureux, Oddvar Longva and Raymond S. Eilertsen</td>
<td>Mapping of subaqueous landforms for near-shore landslide susceptibility assessment along Norwegian fjords</td>
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<td>15:45-16:00</td>
<td>Jean Sebastien Lheureux, Louise Hansen, Oddvar Longva and Raymond S. Eilersten</td>
<td>Landslides along Norwegian fjords: causes and hazard assessment</td>
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<td>16:00-16:30</td>
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<td>16:30-16:45</td>
<td>Mercedes Ferrer, Luis I. Gonzalez de Vallejo , and Julia Seisdedos</td>
<td>Güimar and La Orotava mega-landslides (Tenerife) and tsunamis deposits in Canary Islands</td>
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<td>16:45-17:00</td>
<td>Paolo Mazzanti, Fabio Vittorio De Blasio</td>
<td>The dynamics of subaqueous rock avalanches: the role of dynamic fragmentation</td>
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<td>17:00-17:15</td>
<td>Fabio De Blasio</td>
<td>Dynamics, velocity and run-out of subaqueous rock avalanches</td>
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17:15-17:30  **Salvatore di Gregorio**, Maria Vittoria Avolio, Valeria Lupiano, Paolo Mazzanti, Francesca Bozzano  
*Simulation of submarine landslides by Cellular Automata methodology*

17:30-17:45  **Fawu Wang**, Tomokazu Sonoyama, and Mitsuki Honda  
*Model test on the impacts of submarine landslides to pipelines*

17:45-18:00  **Filippo Zaniboni**, Peter Planinsek, Silvia Ceramicola, Iginio Marson, Filippo Zaniboni, Stefano Tinti, Gianluca Pagnoni, Daniel Praeg, Edy Forlin and Ester Colizza  
*Reconstruction of a submarine landslide and related tsunami from morpho-bathymetry and sub-bottom data on the Ionian Calabrian margin (Mediterranean Sea)*

**L25 – Seismically induced landslides and seismic landslide hazard analysis**  
Conveners: Ed Harp, Hideaki Marui, Luca Guerrieri

**AUSTRIA ROOM**

14:30-15:00  **Keynote**  
**Edwin Harp** and Randall Jibson  
*The Effect of Complex Fault Rupture in the Distribution of Landslides Triggered by the 12 January 2010, Haiti Earthquake*

15:00-15:15  **Vincenzo Del Gaudio**, Janusz Wasowski, and Chyi-Tyi Lee  
*Inferring seismic response of landslide-prone slopes from microtremor study*

*Hazard and risk scenarios of landslides triggered by earthquakes*

15:30-15:45  **Surya Parkash Gupta**  
*Earthquake Related Landslides in Indian Himalaya: Experiences from the past and Implications for the future*

15:45-16:00  **Ignacio García Flórez**, Meaza Tsige Aga, Ramón Capote Del Villar and Rosa Mateos  
*Geological and structural control of earthquake-induced landslides in El Salvador*

16:00-16:30  Coffee break

16:30-16:45  **Lynn Highland** and Ping Sun  
*Environmental Effects of the Landslides Caused by the 12 May 2008, Wenchuan, China Earthquake*

16:45-17:00  **Xuanmei Fan**, Cees J. Van Westen, Qiang Xu, Tolga Gorum, Runqiu Huang and Fuchu Dai  
*Spatial Distribution of Landslide Dams Triggered by the 2008 Wenchuan Earthquake*

17:00-17:15  **Carolina Sigaran Loria**, Jan D. Nieuwenhuis, and Robert Hack  
*Seismic slope performance: Comparison of FEM results to displacement-based methods*

17:15-17:30  **J. R. Grasso**  
*Early response to earthquake landslide interactions in mountain area: fast identification of earthquake-induced landslide prone area using early aftershocks*

17:30-17:45  **Jianguo Liu**, Philippa Mason, Eric Yu, Meng-Chue Wu, Chuan Tang, Runqiu Huang and Hanhu Liu  
*Earthquake damage zone GIS modelling: a modulation between co-seismic deformation and landslide susceptibility*

17:45-18:00  Discussion
Tuesday 4 October

L01 - Landslide scenarios accounting for the climatic, geomorphological and geotechnical context

Conveners: Luciano Picarelli, Vit Vilimek

Philippines Room

09:00-09:15 Luciano Picarelli and Vit Vilimek
Opening

09:15-09:40 Jacques Locat
Panel - Some considerations on the effect of climate change on mass movements and their consequences.

09:40-10:05 Jan Klimeš
Panel - Landslides in the outer Western Carpathians, Central Europe

10:05-10:30 Sarah Springman, Yuko Yamamoto, Thomas Buchli, Marian Hertrich, Hansruedi Maurer, Kasper Merz, Isabelle Gartner-Roer, Linda Seward
Panel - Rock glacier degradation and instabilities in the European Alps: a characterisation and monitoring experiment in the Turtmanntal, CH

10:30-11:00 Coffee break

11:00-11:25 Pasquale Schiano
Panel - Climatic scenarios on the Mediterranean area

11:25-11:50 Emilia Damiano, Paola Mercogliano
Panel - Potential effects of climate change on slope stability in unsaturated pyroclastic soils

11:50-12:15 S. G. Lee, Ikuo Towhata, Yueping Yin, and Ken Ho
Panel - The presumed effects of the expected climatic changes on the stability of slopes in Far East region

12:15-12:30 Discussion

13:00-14:30 Lunch break

14:30-14:45 M. Geertsema
Quick clay landslides landscape evolution, and climate change? a perspective from British Columbia

14:45-15:00 Philip Leopold, Erich Draganits, Gerhard Heiss and Ede Kovacs
A geotechnical explanation for the transition from creep to slide in the alpine foreland

15:00-15:15 Rosa María Mateos, M. Garcia- Moreno, G. Herrera and J. Mulas
Recent mass movements in the Tramuntana range (Majorca, Spain)

15:15-15:30 E. Gomez and M. Villarraga
Recent landslides with economical and human losses in Medellin city (Colombia)

The impact of climate changes on the behaviour of active landslides in clay

15:45-16:00 Maurizio Polemio, Teresa Lonigro
Climate variability and landslide occurrence in Apulia (southern Italy)

16:00-16:30 Coffee break

16:30-16:45 Alessandro Guerriechio, Angelo Doglioni, Gerardo Fortunato, Elena Guglielmo, Maurizio Ponte, and Vincenzo Simeone
Analysis of the rainfall preceding the activation of the large Maierato landslide in 2010
16:45-17:00  **Marko Kohv**, and Tiit Hang  
Pore pressure fluctuations within quasi-stable slopes in south-western Estonia and accompanying influence to the slope stability

17:00-17:15  **Giovanni Bertolini**  
Large reactivated earth flows in the Northern Apennines

17:15-18:00  Discussion and short poster presentations

**L04 - Landslide inventory and susceptibility and hazard zoning**

Conveners: Javier Hervas, Gabriel Legorreta, Miet Van Den Eeckhaut, Alessandro Trigila

**GREEN ROOM**

09:00-09:15  **Philip Deline**, Naki Akçar, Susan Ivy-ochs, Vasily Alfimov, Irka Hajdas, Peter W. Kubik, Marcus Christl, Christian Schlüchter  
Advance in the mapping of the 1717 AD Triolet rock avalanche deposit (Mont Blanc massif, Italy) using cosmogenic exposure dating

09:15-09:30  **Jérôme Lopez Saez**, Christophe Corona, Frédéric Berger  
Probability maps of landslide reactivation derived from tree-ring records

09:30-09:45  **Khamarrul Azahari Razak**, Alexander Bucksch, Michiel Damen, Cees van Westen, Menno Straatsma, Steven De Jong  
Characterizing tree growth anomaly induced by landslides using LiDAR

09:45-10:00  Miet Van Den Eeckhaut, **Javier Hervás**, Luca Montanarella  
Landslide databases in Europe: analysis and recommendations for interoperability and harmonisation

10:00-10:15  **Reginald L Hermanns**, Lars H Blikra, Einar Anda, Aline Saintot, Halgeir Dahle, Thierry Oppikofer, Luzia Fischer, Halvor Bunkholt, Martina Böhme, John Dehls, Tom R Laukens, Thomas Redfield, Per T Osmundsen, Trond Eikens  
Systematic mapping of large unstable rock slopes in Norway

10:15-10:30  **Snježana Mihalić**, Hideaki Marui, Osamu Nagai  
Landslide Inventory in the area of Zagreb City: Effectiveness of Using LiDAR DEM

10:30-11:00  Coffee break

11:00-11:30  **Keynote**  
**Cees van Westen**, Saibal Ghosh, Pankaj Jaiswal, Tapas Ranjan Martha, Sekhar Lukose Kuriakose  
From landslide inventories to landslide risk assessment; an attempt to support methodological development in India

11:30-11:45  Alessandro Trigila, Nicola Casagli, Filippo Catani, Giovanni Crosta, Carlo Esposito, **Paolo Frattini**, Carla Iadanza, Gabriele Scarascia Mugnozza, Samuele Segoni, Daniele Spizzichino, Veronica Tofani  
Landslide susceptibility mapping at national scale: the Italian case study

11:45-12:00  **Daniel Tobler**, Hans Rudolf Keusen  
Hazard zoning in areas with major deep-seated landslides - Case study from Switzerland

12:00-12:15  **Carlo Esposito**, Carla Iadanza, Gabriele Scarascia Mugnozza, Alessandro Trigila  
Susceptibility assessment of shallow landslides in Giampilieri (North-East Sicily, Italy)

13:00-14:30  Lunch break
14:30-14:45 Jean-Philippe Malet, Anne Puissant, Alexandre Mathieu, Miet Van Den Eeckhaut, Mathieu Fressard
Integrating spatial multi-criteria evaluation and expert knowledge for country-scale landslide susceptibility analysis: application to France

14:45-15:00 Andreas Günther, Miet Van Den Eeckhaut, Paola Reichenbach, Javier Hervás, Jean-Philippe Malet, Claire Foster, Fausto Guzzetti
New developments in harmonized landslide susceptibility mapping over Europe in the framework of the European Soil Thematic Strategy

15:00-15:15 Dalia Kirschbaum, Robert Adler, Christa Peters-Lidard
Using remotely sensed information for near real-time landslide hazard assessment

15:15-15:30 Robert Tomas
INSPIRE and landslides

15:30-15:45 Leonardo Cascini, Silvio Di Nocera, Michele Calvello, Sabatino Cuomo, Settimio Ferlisi, Fabio Matano
Hyperconcentrated flow susceptibility analysis and zoning at medium scale: methodological approach and case study

15:45-16:00 Carlos Eduardo Rodríguez Pineda, Jairo Edmundo Yepes Heredia
Probabilistic landslide hazard for El Salvador

16:00-16:30 Coffee break

16:30-16:45 Angelo Doglioni, Vincenzo Simeone
Quantitative geomorphological analysis based on wavelet transforms

16:45-17:00 Ivan Marchesini, Michele Santangeolo, Federica Fiorucci, Mauro Cardinali, Mauro Rossi and Fausto Guzzetti
A GIS method for obtaining geologic bedding attitude

17:00-17:15 Gerlinde Posch-Troezmueller, Richard Bäk
Minimal standards for susceptibility and hazard maps of landslides and rock falls

17:15-17:30 Luca Falconi, Danilo Campolo, Gabriele Leoni, Silvia Lumaca, Claudio Puglisi
Geomorphology hazard assessment of Giampilieri and Briga river basins after the rainfall event on October 1, 2009 (Sicily, Italy)

17:30-17:45 Milorad Jovanovski, Biljana Abolmasov, Igor Pesevski
Analyses of landslide hazard evaluation factors using polynomial interpolation

17:45-18:00 Bikas Chandra Bhattarai, Ananta Man Singh Pradhan
A case study on landslide hazard mapping in Changunarayan VDC, Nepal

L07 - Landslide instrumentation and monitoring
Conveners: Rajenda K. Bandari, Leonardo Cascini, Dario Peduto

Iran Room

11:00-11:30 Keynote
Federica Cotecchia, Francesca Santaloia, Piernicola Lollino, Giuseppe Sorbino, Michele Calvello
Instrumentation and monitoring for the interpretation of the landslide mechanism: proposed strategy and examples of application

11:30-11:45 Roberto Passalacqua, and Rossella Bovolenta
Characterization and study of a complex landslide site in Northern Italy
### Daily Oral Programme • L11 • Tuesday 4 October

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| 11:45-12:00 | Roberto Vassallo, Caterina Di Maio, and Margherita Vallario  
A possible mechanism of movement of an ancient clayey landslide |
| 12:00-12:15 | Shantanu Sarkar, Amitava Ghosh, Debi Prasanna Kanungo, and Zamir Ahmad  
Slope stability assessment and monitoring of a vulnerable site on Rishikesh-Uttarkashi highway, India |
| 13:00-14:30 | Lunch break                                                                                               |
| 14:30-14:45 | Marco Del Fabbro, Roberto Meriggi and Nicola Stefanelli  
Gravitational instability analysis of the Prato Carnico village |
| 14:45-15:00 | Abdullah Che Hassandi, and Hussin Ghazali  
Retrogressive Slope Failures in Natural Slope – a Case Study |
| 15:00-15:15 | Adrin Tohari, Khori Sugianti, and Katsumi Hattori  
Monitoring and modelling of rainfall-induced landslide in volcanic soil slope: case study of Cadas Pangeran landslide in west Java, Indonesia |
| 15:15-15:30 | Dominika Krzeminska, Thom Bogaard, Taha Debieche, Vincent Marc and Jean-philippe Malet  
Sprinkling tests to understand hydrological behaviour of mudslide |
| 15:30-15:45 | Bugnion Louis, and Wendeler Corinna  
Impact pressure measurements in shallow landslides |
| 15:45-16:00 | Maja Ostric, Kyoji Sassa, Bin He, Kaoru Takar and Yosuke Yamashiki  
Portable Ring Shear Apparatus and its application |
| 16:00-16:30 | Coffee break                                                                                              |
| 16:30-16:45 | Alberto Clerici, Ezio Giuriani, Danilo Cambiaghi, Antonio Isceri, Giorgio Vassena, Egidio Marchina and Luca Cominoli  
Rockfall Full Scale Field Tests |
| 16:45-17:00 | Blikra Lars Harald, and Kristensen Lene  
Monitoring concepts and requirements for large rockslides in Norway |
| 17:00-17:15 | Diego Arosio, Laura Longoni, Fabrizio Mazza, Monica Papini, Luigi Zanzi  
Freeze-thaw cycle and rockfall monitoring |
| 17:15-17:30 | Supper Robert, Jochum Birgit, Baron Ivo, Lovisolo Mario, Römer Alexander, Ottowitz David, and Cardellini Stefano  
Results of Geoelectrical Monitoring of Landslides Collected by the SafeLand/TEMPEL Network |
| 17:30-17:45 | Jonathan Chambers, Philip Meldrum, David Gunn, Paul Wilkinson, Andrew Merrit, William Murphy, Jared West, Oliver Kuras, Edward Haslam, Richard Ogilvy, Peter Hobbs, Catherine Pennington and Chris Munro  
Geophysical-geotechnical sensor networks for landslide monitoring |
| 17:45-18:00 | Discussion                                                                                               |

**L11 - Landslides, transportation network and lifelines**

Conveners: Jordi Corominas, Gian Paolo Giani, Tiziana Apuani

**IRAN Room**

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| 09:00-09:15 | Francesca Bozzano, Ivan Cipriani, Salvatore Martino, Paolo Mazzanti and Alberto Prestininzi  
Forecasting methods for landslides interacting with infrastructures |
09:15-09:30 Gianfranco Marchi, Giorgio Giacchetti, Gianluca Benedetti and Alberto Landuzzi
The Scascoli case study: design and safety measures for a landslide area

09:30-09:45 G. Scarpelli, D. Segato, E. Sakellariadi, A. Vita, P. Ruggeri and V.M.E. Fruzzetti
Slope instability problems in Jonica highway construction

09:45-10:00 Michele Nappi, Paolo Budetta, Gerardo Lombardi and Enzo Minotta
Rockfall run-out estimate comparing empirical and trajectographic approaches

10:00-10:30 Discussion

L20 - Integrated approach to landslide risk mitigation
Conveners: José Cepeda, Lino Versace

Ethiopia Room

11:00-11:15 Raffaele Albano, Stefania Pascale, Francesco Sdao and Aurelia Sole
A GIS model for systemic vulnerability assessment in urbanized areas supporting the landslide risk management

11:15-11:30 Giovan Battista Chirico, Andrea Dani, Federico Preti and Massimiliano Schwarz
Coupling root reinforcement and subsurface flow modeling in shallow landslides triggering assessment

11:30-11:45 Giovanna Capparelli, Massimiliano Giorgio and Roberto Greco
Shallow landslides risk mitigation by early warning: the Sarno case

11:45-12:00 M. Cristina Rulli and Renzo Rosso
Modeling of forest roads impact on shallow landslides triggering

12:00-12:15 Discussion and short poster presentations

13:00-14:30 Lunch break

14:30-14:45 Diego Arosio, Davide Brambilla, Laura Longoni
New investigations to update the model of the Premana (LC) landslide

14:45-15:00 Sergey Morozov and Valeriy Tishin
Comprehensive program of landslide protection of the Ulianovsk City and its vicinities

15:00-15:15 Ahmad Shukri Yahaya, Fauziah Ahmad and Wan Nur Aishah Meor Hussein
Environmental Risk Assessment on a Hill Site Development in Penang Malaysia

15:15-15:30 Daniele Peila, Stefano Lo Russo and Claudia Mignelli
Analysis of risk induced by rockfall on roads

15:30-15:45 Alessandro Corsini, Francesco Ronchetti, Jean Pascal Iannacone, Volkmar Mair, Ludwig Nosssing, Martina Stefani, Günther Unterthiner and Giorgio Valentinotti
Hot spots for simplified risk scenarios of the Trafoi rockslide (South Tyrol)

15:45-16:00 Discussion and short poster presentations

16:00-16:30 Coffee break

16:30-16:45 Muhibuddin Usamah and N.m.s.i Arambepola
Lessons-learned from the 2006 Flashfloods and Landslide in Uttaradit and Sukhothai Provinces, Thailand: Implication for Effective Landslide Disaster Risk Management in Thailand
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<td>16:45-17:00</td>
<td>Maria Vittoria Avolio, Donato D’Ambrosio, Gino Mirocle Crisci, Federica Lucà, Valeria Lupiano, Gaetano Robustelli, Rocco Rongo and William Spataro</td>
<td>High detailed debris flows hazard maps by a cellular automata approach</td>
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<td>17:00-17:15</td>
<td>Pasquale Versace, Giovanna Capparelli</td>
<td>On verification of forecasting capability of the FlaIR regional model in landslide early warning</td>
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<td>17:15-17:30</td>
<td>Linda Bye and Mark Pelling</td>
<td>The Cultures of Landslide Risk Management</td>
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<td>17:30-18:00</td>
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<td>Discussion and short poster presentations</td>
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**L21 – Landslide education, training and capacity development**
Conveners: Dwikorita Karnawati, Surya Prakash

**GERMAN ROOM**

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<td>09:00-09:15</td>
<td>Alexander Strom and Kanatbek Abdrakhmatov</td>
<td>Evidence of Rockslides’ Origin, Motion Mechanisms and Consequences (Five Years of Field Training Course in Kyrgyzstan)</td>
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<td>09:15-09:30</td>
<td>Claudio Margottini</td>
<td>The landslide museum of Civita di Bagnoregio and living landscape of bad lands valley</td>
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<td>09:30-09:45</td>
<td>Alzbeta Medvedova, Roberta Prokesova and Zora Snopkova</td>
<td>Active landslides – perception and education in Slovakia</td>
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<td>09:45-10:00</td>
<td>Surya Parkash</td>
<td>Education, Training and Capacity Development for Mainstreaming Landslide Risk Reduction</td>
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<td>10:00-10:15</td>
<td>Gareth Hearn and Tim Hunt</td>
<td>Strengthening Landslide Awareness and Management in the Mountain Road Sector</td>
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<td>10:15-10:30</td>
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**L22 - Submarine landslides and tsunami**
Conveners: Jacques Locat, Roger Urgeles, Paolo Mazzanti

**ETHIOPIA ROOM**

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<td>09:00-09:15</td>
<td>Sylfest Glimsdal, Jean-Sebastien L’Heureux, Carl B. Harbitz, Geir K. Pedersen</td>
<td>Modelling of the 1888 landslide tsunami, Trondheim, Norway</td>
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<td>09:15-09:30</td>
<td>Nicholas George, Duncan Wallace, Jody M. Webster, Robin Beaman and Liz Abbey</td>
<td>Surface characterization of a large submarine landslide on the outer shelf and slope of the Great Barrier Reef, advances in the automated classification of submarine deposits</td>
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<td>09:30-09:45</td>
<td>Sara Lafuerza, Nabil Sultan, Miquel Canals, Galderic Lastras, Sergio Costa, Antonio Cattaneo and Jaume Frigola</td>
<td>The role of gas in triggering the Ana slide, Eivissa Channel, Western Mediterranean Sea</td>
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<td>09:45-10:00</td>
<td>Attilio Sulli, Mauro Agate, Claudio Lo Iacono, Valeria Lo Presti, Valentina Pennino and Sabrina Polizzi</td>
<td>Submarine Slope Failures along the Northern Sicilian Continental Margin (Southern Tyrrhenian Sea) and Possible Implications for Geo-hazard</td>
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<td>10:00-10:30</td>
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**L25 - Seismically induced landslides and seismic landslide hazard analysis**

Conveners: Ed Harp, Hideaki Marui, Luca Guerrieri

### Austria Room

09:00-09:15  
**Eliana Esposito, Luca Guerrieri, Sabina Porfido, Eutizio Vittori, Anna Maria Blumetti, Valerio Comerci, Alessandro Maria Michetti and Leonello Serva**  
*Landslides induced by historical and recent earthquakes in Central - Southern Apennines (Italy): a tool for intensity assessment and seismic hazard*

09:15-09:30  
**Valerio Comerci, Annamaria Blumetti, Elisa Brustia, Pio Di Manna, Luca Guerrieri, Mauro Lucarini and Eutizio Vittori**  
*Landslides induced by the 1908 Southern Calabria - Messina earthquake (Southern Italy)*

09:30-09:45  
**Enrico Miccadei, Tommaso Piacentini, Nicola Sciarrà and Rosamaria Di Michele**  
*Seismically induced landslides in Abruzzo (Central Italy): morphostructural control*

09:45-10:00  
**Fei Cai, Keizo Ugai, Akihiko Wakai, Seiichiro Kuroda, Atsuo Onoue and Kunihiro Higuchi**  
*Numerical Analysis of Two Wooden House Damages Induced by Dune Liquefaction during the 2007 Niigata Chuetsu-offshore Earthquake*

10:00-10:15  
**Akihiko Wakai** and The Earthquake-induced Landslides Research Project  
*The interim report: The recent activities in the Earthquake-induced Landslides Research Project in the Japan Landslide Society*

10:15-10:30  
**Stavroula Fotopoulou** and Kyriazis Pitilakis  
*Building vulnerability to the 2008 Ilia-Achaia earthquake induced slides*

10:30-11:00  
**Coffee break**

11:00-11:15  
**George Papathanassiou, Sotiris Valkaniotis and Spyros Pavlides**  
*Evaluation of the temporal probability of earthquake-induced landslides in the island of Lefkada*

11:15-11:30  
**Sarada K. Sarma and Georgios Chlimintzas**  
*Seismic displacements of slopes using a multi-block sliding method – review and applications*

11:30-11:45  
**Jean-robert Grasso, L. Tatard, T. Gorum and Cees Van Westen**  
*Are earthquake-induced landslide driven by the permanent deformation of slope?*

11:45-12:00  
**Eiasaku Hamasaki**  
*Possible vapour lock generation near a sliding surface as a mechanism of huge landslides*

12:00-12:15  
**Discussion**

13:00-14:30  
**Lunch break**

14:30-14:45  
**Bouhadad Youcef**  
*Earthquakes-induced damaging landslides in Algeria: losses of human lives and properties*

14:45-15:00  
**Chiara Calligaris, Michele Comi, Shahina Tariq and Hawas Khan**  
*Attabad Landslide on 4 January 2010: a pakistani disaster*

15:00-15:15  
**Sotiris Argyroudis, Stavroula Fotopoulou** and Kyriazis Pitilakis  
*Semi-empirical assessment of road vulnerability to seismically induced slides*

15:15-15:30  
**Isakbek Torgoev, Rustam Niyazov and Hans-balder Havenith**  
*Tien-Shan landslides triggered by earthquakes in Pamir-Hindukush zone*
15:30-15:45 Rustam Niyazov and Bakhtiar Nurtaev
Modern seismogenic landslides caused by the Pamir - Hindu Kush earthquakes and their consequences in Central Asia

15:45-16:00 Vahid Bagheri, Mohammadreza Mahdavifar and S.M. Fatemi Aghda
Seismic Landslides Hazard Zonation in Iran, Ardebil

16:00-16:30 Coffee break

16:30-16:45 Discussion

L26 - Landslides in cold regions
Conveners: Marten Geertsema, Marta Chiarle, Wei Shan

German Room

11:00-11:30 Keynote
Stephan Gruber
Landslides in cold regions: making a science that can be put into practice

11:30-11:45 Mauri McSaveney and Chris Massey
Did radiative cooling trigger New Zealand’s 2007 Young River landslide?

11:45-12:00 Christian Huggel, Simon Allen, John J. Clague, Luzia Fischer, Oliver Korup and Demian Schneider
Detecting potential climate signals in large slope failures in cold mountain regions

12:00-12:15 Discussion

13:00-14:30 Lunch break

14:30-14:45 Wei Shan, Hua Jiang, Gaohang Cui, Zhaoguang Hu, Chunjiao Wang and Ying Guo
Landslides Characteristic of Northwest Lesser Khingan Range China

14:45-15:00 Ying Guo, Wei Shan, Chengcheng Zhang, Hua Jiang and Yuying Sun
Landslide and Moisture-temperature for Cutting Slope Soil in Freeze-thaw Cycles

15:00-15:15 Svetlana Evgrafova, Oxana Masyagina, Stanislav Prokushkin and Anatolii Prokushkin
Soil sliding in continuous permafrost terrain of Siberia: the case study of soil respiration and soil microbial activity dynamics during ecosystem re-establishment

15:15-15:30 Demian Schneider, Roland Kaitna, William E. Dietrich, Leslie Hsu, Christian Huggel and Brian Mcardell
Rock-ice avalanche investigations by means of vertically rotating drum experiments

15:30-15:45 M. Cristina Rulli, Federica Gobattoni and Monia Santini
GALLIUS: GeomorphologicAL model for Landslide Initiation under Snowmelting condition

15:45-16:00 Domenico Aringoli, Bernardino Gentili, Marco Materazzi, Gilberto Pambianchi and Nicola Sciarra
DSGSDs induced by post-glacial decompression in central Apennine (Italy)

16:00-16:30 Coffee break

16:30-16:45 Marco Giardino, Luigi Perotti, Marco Bacenetti and Paolo Zamparutti
Climatic and structural controls to slope instabilities in Val Veny (Italy)

16:45-17:00 Ludovic Ravanel and Philip Deline
Permafrost and destabilization of alpine rockwalls: a very close link in the Mont Blanc massif
17:00-17:15  **Philip Deline**, Massimo Broccolato, Jeannette Noetzli, Ludovic Ravanel and Andrea Tamburini  
*The December 2008 Crammont rock avalanche, Mont Blanc massif area, Italy*

17:15-17:30  Michèle Curtaz, Anna Maria Ferrero, Gianfranco Forlani, **Maria Rita Migliazza** and Riccardo Roncella  
*Test of a procedure to assess the stability of permafrost rock walls: the case of Pellaud basin, Rhêmes Valley (Aosta Valley, Italy)*

17:30-17:45  **Vanessa Wirz**, Stephan Gruber, Jan Beutel, Benjamin Buchli, Philippe Limpach and Alain Geiger  
*Temporal characteristics of different cryosphere-related slope movements in high mountains*

17:45-18:00  **Kenneth Hewitt**  
*Large, topographical-constrained rockslide complexes in the Karakoram Himalaya, Northern Pakistan*
**Wednesday 5 October**

**L04 - Landslide inventory and susceptibility and hazard zoning**
Conveners: Javier Hervas, Gabriel Legorreta, Miet Van Den Eeckhaut, Alessandro Trigila

**Green Room**

09:00-09:15 Almaz Torgoev, Hans-Balder Havenith  
*Landslide susceptibility, hazard and risk mapping in Mailuu-Suu, Kyrgyzstan*

09:15-09:30 Stefano Devoto, Sara Biolchi, Viola Maria Bruschi, Alberto González Díez, Matteo Mantovani, Alessandro Pasuto, Daniela Piacentini, John A. Schembri, Mauro Soldati  
*Landslides along the north-west coast of the Island of Malta*

09:30-09:45 Gabriel Legorreta Paulin, Marcus Bursik, Maria Teresa Ramírez Herrera, José Lugo Hubp, José Juan Zamorano Orozco, Irasema Alcántara Ayala  
*Landslide inventory and susceptibility mapping in a Mexican stratovolcano*

09:45-10:00 Lieven Claessens, Mary Kitutu, Jean Poesen, Jozef Deckers  
*Landslide hazard assessment on the Ugandan footslopes of Mount Elgon: the worst is yet to come*

10:00-10:15 Jose Cepeda, Unni Eidsvig, Bjorn Vidar Vangelsten, Farrokh Nadim, Bjorn Kalsnes  
*A method for integrating time-uncertainty associated to landslide inventories in threshold assessments*

10:15-10:30 Teresa Mrozek, Antoni Wojcik, Ziemowit Zimnal and Dariusz Grabowski  
*Landslide inventory at 1:10000 scale in Poland - benefits and dilemmas of a national project*

**L06 - Landslides and extreme weather**
Conveners: Hiroshi Fukuoka, Gabriele Scarascia Mugnozza

**Ethiopia Room**

11:00-11:15 Udeni P. Nawagamuwa  
*Recommending regional rainfall threshold values for early warning of landslides in the Asian Region*

11:15-11:30 Samuele Segoni, Alessandro Battistini, Ascanio Rosi, Guglielmo Rossi and Filippo Catani  
*A regional real time landslide warning system based on spatially variable rainfall thresholds*

11:30-11:45 Lorella Montrasio, Roberto Valentino, Gianluca Losi, Angela Corina, Lauro Rossi and Roberto Rudari  
*Spatiotemporal hazard assessment of rainfall-induced shallow landslides*

11:45-12:00 David Johnny Peres and Antonino Cancelliere  
*Defining rainfall thresholds for early warning of rainfall-triggered landslides: the case of North-East Sicily*

12:00-12:15 André Avelar, Ana Luiza Coelho-Netto and Willy Lacerda  
*Mechanism of the recent catastrophic landslides in the mountainous range of Rio de Janeiro, Brazil*
12:15-12:30 Giuseppe Tito Aronica, Claudio Puglisi, Gabriele Leoni and Nathalie Morey
Debris volume GIS analysis triggered by rainstorm in North-Eastern Sicily

12:30-12:45 Atitkagna Dok
Tertiary Creep Reproduction by Back-Pressure-Controlled Test in DPRI-7

12:45-13:00 Discussion

**L07 - Landslide instrumentation and monitoring**
Conveners: Rajenda K. Bandari, Leonardo Cascini, Dario Peduto

**Iran Room**

09:00-09:15 Luca Lenti, Salvatore Martino, Antonella Paciello, Alberto Prestininzi, Stefano Rivellino and Carlo Romagnoli
Seismometric monitoring of hypogeous failures due to slope deformations

09:15-09:30 Sara Amoroso, Ferdinando Totani and Gianfranco Totani
Use of the seismic dilatometer (SDMT) in landslide research and practice

09:30-09:45 Marco Walter and Manfred Joswig
Resolving landslide-bedrock interaction by Nanoseismic Monitoring

09:45-10:00 Cristina Occhiena, Marina Pirulli and Claudio Scavia
Application of a multi-pixel location coupled technique to microseismic data for identification of rock slope active surfaces

10:00-10:15 Deprez Aline, Malet Jean-philippe, Masson Frederic and Ulrich Patrice
Continuous monitoring and near real-time processing of GPS observations for landslide analysis: a methodological framework

10:15-10:30 Andrea Manconi, Paolo Allasia, Daniele Giordano, Marco Baldo, Giorgio Lollino and Angelo Corazza
Landslide 3D surface deformation model obtained via RTS measurements

10:30-11:00 Coffee break

11:00-11:15 Chung-ray Chu, Ching-je Huang and Tsung-mo Tien
A novel fiber optic sensing system for monitoring debris flows

11:15-11:30 Gerhard Kapeller, Thomas Etzer and Markus Aufleger
Measurements of Hydraulic Subsurface Processes by means of Distributed Fiber Optic Temperature Sensing (DTS)

11:30-11:45 Gerhard Kapeller, Rafael Rocha, Luiz Lacerda and Markus Aufleger
Evaluation of Temperature Effects on Strain Measurements with DTSS

11:45-12:00 Andrea Segalini, Corrado Carini and Luigi Cristalli
Underground Landslide Displacement Monitoring: A new MMES based device

12:00-12:15 Guido Ventura, Giuseppe Vilardo, Carlo Terranova and Eliana Bellucci Sessa
4D Monitoring of active landslides by multi-temporal airborne LiDAR data

12:15-12:30 Matteo Berti, Alessandro Corsini, Francesco Ronchetti, Alberto Rosi, Franco Zambonelli, Guido Bernardi, Fabrizio Bertocchi, Paolo Mora and Alessandro Simoni
Landslide monitoring using Wireless Sensor Network

12:30-12:45 Keigo Koizumi, Kenji Hirata, Kazuhiro Oda, Yukishige Fujita and Sadayuki Kamide
Slope disaster monitoring system using battery-operated wireless sensor network

12:45-13:00 Discussion
**L13 - Landslides as sediment sources**
Conveners: Giovanni Crosta, Matjaz Mikos, Zieaoddin Shoaei

**Ethiopia Room**

09:00-09:15  **Jose Cepeda**, Jenni Barclay and Graziella Devoli  
A conceptual framework for sediment-supply dependent rainfall thresholds

09:15-09:30  **Emrah Hakki Erdogan**, Javier Hervás, Miet Van Den Eeckhaut, Alessandro Pasuto and Gianluca Marcato  
Assessment of Soil Erosion in Areas Affected by Landslides

09:30-09:45  **Alessandro Simoni**, Vincenzo Picotti, Alessio Ponza and Matteo Berti  
Landslide-related sediment yield rate in a large apenninic catchment

09:45-10:00  **Francesco Brardinoni**, Giovanni Crosta, Stefano Lamonaca, Lidia Peretti, Davide Elli and Elena Valuzzi  
Landslide mobility and landslide sediment transfer in Val di Sole, eastern Central Alps

10:00-10:15  **Marco Giardino**, Dan Shugar  
Short poster presentation  
A quantitative assessment of the sedimentology and geomorphology of rock avalanche deposits

10:15-10:30  Discussion

**L16 - Early warnings and emergency plans**
Conveners: Nicola Casagli, Yin Yuepin

**Austria Room**

09:00-09:15  **Sara Maria Ratto**, Hervé Stevenin, Evelyne Navillod and Marco Cauduro  
Operational procedure for hydrogeological warning system in Aosta Valley

09:15-09:30  **Gianluca Martelloni**, Samuele Segoni, Riccardo Fanti and Filippo Catani  
An operational warning system for the forecasting of landslide occurrence at regional scale

09:30-09:45  **Diana Salciarini**, Claudio Tamagnini, Francesco Ponziani and Nicola Berni  
Defining physically-based rainfall thresholds for early warning systems

09:45-10:00  **Suhaimi Jamaludin**, Faisal Hj Ali  
Overview of Some Empirical Methods to Correlate Rainfall and Shallow Landslide and Applications in Malaysia

10:00-10:15  **Francesco Ponziani**, Nicola Berni, Marco Stelluti, Renato Zauri, Luca Brocca, Tommaso Moramarco, Diana Salciarini, Claudio Tamagnini  
Landwarn: an operative early warning system for landslides forecasting based on rainfall thresholds and soil moisture

10:15-10:30  **Deepak Raj Bhat**, Netra Prakash Bhandary, Ryuichi Yatabe  
Method of Residual-state creep test to understand the creeping behavior of landslide soils

10:30-11:00  Coffee break

11:00-11:15  **Nicola Dell’acqua**, Vincenzo Albanese, Angelo Corazza, Paola Pagliara, Nicola Casagli, Sandro Moretti, Claudio Proietti, Gorgio Lollino, Fausto Guzzetti, Francesco Guadagno  
Integration of technological development and civil protection activities during a landslide emergency phase
11:15-11:30  **N.M.S.I Arambepola**
Examples of Cost Effective Practices for Landslide Monitoring for Early Warning in Developing Countries of Asia

11:30-11:45  **Bigarré Pascal**, Klein Emmanuelle, Gueniffey Yves, Verdel Thierry
Cloud monitoring: an innovative approach for the prevention of landslide risks

11:45-12:00  **Ikuo Towhata**, Taro Uchimura, Ling Wang, Jianping Qiao
Validation and Interpretation of Monitored Behavior of Slopes Vulnerable to Failure

12:00-12:15  **Deodato Tapete**, Nicola Casagli, Riccardo Fanti
Radar interferometry for early stage warning on monuments at risk

12:15-12:30  **Giuseppe Basile**, Marinella Panebianco
Experimental alert model for hydrogeological risk: a case study in Sicily

12:30-12:45  **N.M.S.I Arambepola**
An Appraisal on Ongoing Practices for Landslide Early Warning Systems in Selected South and East Asian Countries

12:45-13:00  Discussion

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**L24 - Landslides and cultural heritage**
Conveners: Paolo Canuti, Yoshinori Iwasaki, Daniele Spizzichino

**German Room**

09:00-09:30  **Keynote**
Claudio Margottini
Cultural Heritage in landslide areas: between adaptation and mitigation

09:30-09:45  **Vladimir Greif** and Tomas Drotar
Static and pseudo static stability analysis of the medieval castle rock slopes in Slovakia

09:45-10:00  **Gianluca Benedetti**, Matteo Bernardi, Lisa Borgatti, Francesca Continelli, Monica Ghirotti, Cristian Guerra, Alberto Landuzzi, Claudio Corrado Lucente and Gianfranco Marchi
San Leo: ten centuries of coexistence with landslides

10:00-10:15  **Alberto Bretschneider**, Gianluca Bianchi Fasani, Emiliano Di Luzio and Marco Tavani
Relationships between the geomorphological evolution of the Palatine Western slope and the fluvial dynamics of the “Velaber Minus” valley (Rome, Italy) by means of numerical modelling constrained to geological data

10:15-10:30  **Riccardo Fanti**, Giovanni Gigli, Deodato Tapete, Francesco Mugnai and Nicola Casagli
Monitoring and modelling slope instability in cultural heritage sites

10:30-11:00  Coffee break

11:00-11:15  **Giuseppe Delmonaco**, Claudio Margottini and Daniele Spizzichino
Rock-fall hazard assessment in the Siq of Petra, Jordan

11:15-11:30  **Deodato Tapete**, Edward Bromhead, Maia Ibsen and Nicola Casagli
Coastal erosion and landsliding impact on historic sites in SE Britain

11:15-11:45  **Francesca Cigna**, Vincenzo Liguori, Chiara Del Ventisette and Nicola Casagli
Landslide impacts on Agrigento’s Cathedral imaged with radar interferometry

11:45-12:00  Alessandro Trigila, Carlo Cacace, **Carla Iadanza**, Sara Delconte, Daniele Spizzichino and Stefano Cespa
Cultural heritage, landslide risk and remote sensing in Italy
12:00-12:15 Luca Falconi, Pablo Meza Arestegui, Gabriele Leoni, Claudio Puglisi and Simona Savini
Geomorphological processes and cultural heritage of Maca and Lari villages: an opportunity for sustainable tourism development in the Colca Valley (province of Caylloma, Arequipa, South Peru)

12:15-12:30 Yoshinori Iwasaki and Valter M. Santoro
Failure of Embankment of Moat of Angkor Wat and its Restoration

12:30-13:00 Discussion

L28 - Risk management in Multi-hazard environment
Conveners: Peter Bobrowsky, Salvano Briceno, Peter Lyttle, Giuseppe Delmonaco

Philippines Room

09:00-09:15 Giuseppe Delmonaco, Domenico Fiorenza, Luca Guerrieri, Carla Iadanza, Daniele Spizzichino, Alessandro Trigila and Eutizio Vittori
Landslide risk assessment and management using IT services and tools: the EU BRISEIDE Project approach

09:15-09:30 Boyko Rangelov
Risk profiles and hazards for the Black Sea area

09:30-09:45 Daniel Tobler, Rachel Riner and Bernhard Krummenacher
Risk Concept Switzerland - Hazard Analysis, Risk Evaluation and Protection Measures

09:45-10:00 Melanie Kappes and Thomas Glade
Landslides in a Multi-Hazard context

10:00-10:15 Claudio Campobasso, Giuseppe Delmonaco, Barbara Dessi, Pierluigi Gallozzi, Domenico Ligato, Benedetto Porfidia, Daniele Spizzichino, Francesco Traversa and Giorgio Vizzini
Long term strategies and policies for geological and hydraulic risk mitigation in Italy: the ReNDIS project

10:15-10:30 Adriana Galderisi, Costanza Bonadonna, Giuseppe Delmonaco, Floriana Federica Ferrara, Scira Menoni, Andrea Ceudech, Sebastien Biass, Corine Frischknecht and Irene Manzella
Vulnerability assessment and risk mitigation: the case of Vulcano Island, Italy

10:30-11:00 Coffee break

11:00-11:15 Roberto W. Romeo, Milena Mari and Giulio Pappafico
A performance-based approach to landslide risk analysis and management

11:15-11:30 Candide Lissak Borges, Olivier Maquaire, Jean Philippe Malet and Anne Puissant
Landslide consequences and post crisis management along the coastal slopes of Normandy, France

11:30-11:45 Margottini Claudio, Wehrli André
The 2010 European Environment Agency report on natural hazards: landslides and integrated risk management

11:45-12:00 Discussion
Thursday 6 October
L04 - Landslide inventory and susceptibility and hazard zoning
Conveners: Javier Hervas, Gabriel Legorreta, Miet Van Den Eeckhaut, Alessandro Trigila

Green Room
09:00-09:15 Silvia Bianchini, Francesca Cigna, Nicola Casagli
 Improving landslide inventory with Persistent Scatterers in Calabria, Italy

09:15-09:30 Claudia Meisina, Davide Notti, Francesco Zucca, Massimo Ceriani,
 Alessio Colombo, Flavio Poggi, Anna Roccati, Andrea Zaccone
 The use of PSIInSAR™ and SqueeSAR™ techniques for updating landslide inventories

09:30-09:45 Francesca Ardizzzone, Federica Fiorucci, Michele Santangelo, Mauro Cardinalli,
 Alessandro Cesare Mondini, Mauro Rossi, Paola Reichenbach, Fausto Guzzetti
 Very-high resolution stereoscopic satellite images for landslide mapping

09:45-10:00 Alessio Colombo, Luca Lanteri
 The integration between satellite data and conventional monitoring system in order
 to update the Arpa Piemonte landslide inventory

10:00-10:15 Tolga Alkevli, Murat Erçanoğlu
 Usage of ASTER level 3A stereo data in landslide inventory mapping:
 visual determination versus field work

10:15-10:30 Marco Giardino, Sara Ratto, Mauro Palomba, Walter Alberto,
 Marco Armand, Martina Cignetti
 The debris flows inventory of the Aosta Valley Region:
 an integrated natural hazards assessment

10:30-11:00 Coffee break

11:00-11:15 Jan Høst, Marc Henri Derron, Kari Sletten
 Digital rockfall and snow avalanches susceptibility mapping of Norway

11:15-11:30 Joachim Schweigl, Wolfgang Straka
 Working with landslide inventories and susceptibility maps in Lower Austria

11:30-11:45 Daniele Spizzichino, Claudio Margottini, Alessandro Trigila, Carla Iadanza
 Landslide impacts in Europe: weaknesses and strengths of databases available
 at European and national scale

11:45-12:00 Pavel Liščák, Štefan Káčer
 Developments in landslides inventory and registry in Slovakia

12:00-12:15 Paola Gattinoni, Laura Scesi
 Mechanism and triggering factors of the Maierato (VV) landslide

13:00-14:30 Lunch break

14:30-14:45 Claudio Puglisi, Luca Falconi, Azzurra Lentini, Gabriele Leoni, Carlos Ramirez Prada
 Debris flow risk assessment in the Aguas Calientes village (Cusco, Perù)

14:45-15:00 Rainer Bell, Thomas Glade, Klaus Granica, Gerhard Heiss, Philip Leopold,
 Helene Petschko, Gilbert Pomaroli, Herwig Proske, Joachim Schweigl
 Landslide susceptibility maps for spatial planning in Lower Austria

15:00-15:15 Anna Rampini, Gloria Bordogna, Paola Carrara, Monica Pepe,
 Massimo Antoninetti, Alessandro Mondini, Paola Reichebach
 Modeling landslides’ susceptibility by fuzzy emerging patterns

15:15-15:30 Marie Guns, Veerle Vanacker
 Landslide controlling factors in catchments with high deforestation
15:30-15:45  **Salvatore Scudero**, Giorgio De Guidi  
Landslide processes and susceptibility mapping in NE Sicily, Italy

15:45-16:00  **Milos Marjanovic**  
Comparing the performance of different landslide susceptibility models in ROC space

16:00-16:30  Coffee break

16:30-16:45  **Maria Ferentinou**, Christos Chalkias  
Mapping mass movement susceptibility across Greece with GIS, ANN and statistical methods

16:45-17:00  **Paraskevas Tsangaratos**, Ioanna Ilia, Dimitrios Rozos  
Case Event System for landslide susceptibility analysis

17:00-17:15  **K. Kumaraswamy**  
Geoinformatics for landslide vulnerability zonation mapping in the Nilgiris Mountain, Tamil Nadu, India

17:15-17:30  **Manita Timilsina**, Netra Prakash Bhandary, Ryuichi Yatabe  
A simplified approach towards mapping of large-scale landslide potential areas in difficult mountainous terrains of Nepal

17:30-17:45  **Jusong Shi**  
Large scale deep-seated loess slide investigation and mechanism study at the edge of loess plateau of Baoji city, Shaanxi province, China

17:45-18:00  Session wrap-up

**L07 - Landslide instrumentation and monitoring**
Conveners: Rajenda K. Bandari, Leonardo Cascini, Dario Peduto

**IRAN Room**

09:00-09:15  **Travelletti Julien**, Delacourt Christophe, Allemand Pascal and **Malet Jean-Philippe**  
Performance of image correlation techniques for landslide displacement monitoring

09:15-09:30  **Andre Stumpf**, Uwe Niethammer, Sabrina Rothmund, Alexandre Mathieu, Jean-Philippe Malet, Norman Kerle and Manfred Joswig  
Advanced image analysis for automated mapping of landslide surface fissures

09:30-09:45  **Janusz Wasowski**, Caterina Lamanna, Giuseppe Gigante, Domenico Casarano and Pierpaolo Limoni  
Satellite remote sensing and borehole monitoring of landslides in Daunia

09:45-10:00  **Misganu Debella - Gilo** and Andreas Kääb  
Monitoring slow-moving landslides using spatially adaptive least squares image matching

10:00-10:15  **Gianfranco Fornaro**, Davide O. Nitti, Raffaele Nutricato, Fabio Bovenga, Dario Peduto and Leonardo Cascini  
Methodological and Technological Advances in the Application of Spaceborne DInSAR for Landslide Monitoring

10:15-10:30  **Vern Singhroy**, Francois Charbonneau, Kevin Murnaghan and Rejean Couture  
High resolution InSAR monitoring of Coastal Landslides

10:30-11:00  Coffee break

11:00-11:15  Raffaele Nutricato, **Fabio Bovenga**, Alberto Refice, Guido Pasquariello, Janusz Wasowski, Davide Oscar Nitti and Maria Teresa Chiaradia  
C/X-band SAR interferometry used to monitor slope instability in Daunia, Italy
11:15-11:30 Sandro Moretti, Francesca Cigna, Federico Raspini, Geraint Cooksley, Marie-josée Banwell and Hugo Raetzo  
Use of Persistent Scatterer InSAR within Terrafirma Landslide Services  

11:30-11:45 Francesco Antolini, Veronica Tofani, Chiara Del Ventisette, Guido Luzi, Nicola Casagli and Sandro Moretti  
SAR interferometry for landslide risk assessment at local scale: the case study of Castagnola (Northern Apennines, Italy)  

11:45-12:00 Andrea Tamburini, Sara Del Conte, Luigi Lopardo, Claudio Malaguti, Gianfranco Larini and Paolo Vescovi  
Application of SqueeSARTM to the characterization of deep seated gravitational slope deformations: the Berceto case study (Parma, Italy).  

12:00-12:15 Discussion  

13:00-14:30 Lunch break  

14:30-14:45 Manuela Bonano, Fabiana Calò, Michele Manunta and Giovanni Zeni  
Long-term Analysis of Landslides via SBAS-DInSAR technique  

14:45-15:00 Richard Norland and Rune Gundersen  
Ground-Based Radar for Permanent Monitoring of Landslides  

15:00-15:15 Andrew Kos, Tazio Strozzi, Andreas Wiesmann and Charles Werner  
Detection and characterization of rock slope instabilities using a portable radar interferometer (GPRI)  

15:15-15:30 Alessandro Corsini, Giuseppe Ciccarese, Francesco Ronchetti, Eleonora Bertacchini, Matteo Berti, Giovanni Truffelli, Mauro Generali, Marco Pizziolo, Angela Gallucci, Giampiero Gozza, Antonio Monni and Valeria Pancioli  
Rapid assessment of landslide activity in Emilia Romagna using GB-InSAR short surveys  

15:30-15:45 Paolo Farina, Lorenzo Leoni, Francesco Babboni, Francesco Coppi, Lorenzo Mayer and Pier Paolo Ricci  
IBIS, an innovative radar for monitoring engineered and natural slopes  

15:45-16:00 Francesca Bozzano, Ivan Cipriani, Federica Esposito and Paolo Mazzanti  
Predicting landslide failure by time series of displacement  

16:00-16:30 Coffee break  

16:30-16:45 Michele Crosetto, Oriol Monserrat, Guido Luzi, María Cueva and Marta Agudo  
Landslide deformation monitoring with terrestrial SAR: six years of experience of the Institute of Geomatics  

16:45-17:00 Nguyen Anh Tuan, Saillard Marianne, Olivier Marc, Darrozes José, Herrera García Gerardo, García López-davalillo Juan Carlos, Gonzalez Nicieza Celestino, Alvarezfrenandez Inmaculada, Monod Bernard, Mulas De La Peña Joaquim, Soula Jean-claude and Courjaul  
Spatio-temporal evolution of Ground displacement of the Tena landslide (Spain)  

17:00-17:15 Federico Agliardi, Giovanni B Crosta, Rosanna Sosio and Gregorio Mannucci  
In situ and remote long term real-time monitoring of a large alpine rock slide  

17:15-17:30 Lene Kristensen and Lars Harald Blikra  
Monitoring displacement on the Mannen rockslide in Western Norway  

17:30-18:00 Discussion
**LO9 - Advances in slope stability modelling**

Conveners: Ken Ho, Filippo Catani, Giulio Iovine, Alberto Ledesma

**Austria Room**

11:00-11:15 *Angelo Doglioni*, Annalisa Galeandro, Vincenzo Simeone  
*A simple model for passive failure compression structure at the toe of landslide*

11:15-11:30 *Marco M. Secondi*, Giovanni Crosta, Claudio Di Prisco, Gabriele Frigerio, Paolo Frattini, Federico Agliardi  
*Landslide motion forecasting by a dynamic visco-plastic model*

11:30-11:45 *Tobler Daniel*, Riner Rachel, Pfeifer Robert  
*Modeling potential shallow landslides over large areas with SliDisp+

11:45-12:00 *Annalisa Galeandro*, Vincenzo Simeone  
*Simulating infiltration processes into fractured and swelling soils as triggering factors of landslides*

12:00-12:15 Davide Mancarella, *Vincenzo Simeone*  
*Sensitivity analysis of the influence of capillarity barrier on the slope stability of slope covers*

13:00-14:30 Lunch break

14:30-14:45 Federico Agliardi, Giovanni B. Crosta, *Paolo Frattini*, Silvia Imposimato  
*Challenging calibration in 3D rockfall modelling*

14:45-15:15 **Keynote**  
*Giovanni Vaciago*, Gianfrancesco Rocchi  
*Geomechanical basis of landslide classification and modelling of triggering*

15:15-15:30 *Giovanni Gigli*, Nicola Casagli  
*Extraction of rock mass structural data from high resolution laser scanning products*

15:30-15:45 *J. S. H. Kwan*, T. H. H. Hui and K. K. S. Ho  
*Modelling the Motion of Mobile Debris Flows in Hong Kong*

15:45-16:00 German Postoev, *Andrey Kazeev*  
*About the defining of critical values of parameters of a landslide prone slope (potentially unstable part of a slope)*

16:00-16:30 Coffee break

16:30-16:45 *Valentina Svalova*  
*Mechanical-Mathematical Model and Monitoring for Landslides*

16:45-17:00 *Samuele Segoni*, Filippo Catani  
*Different methods to produce distributed soil thickness maps and their impact on the reliability of shallow landslide modeling at catchment scale*

17:00-17:15 *Angelo Doglioni*, Vincenzo Simeone  
*Recovery of strength along shear surfaces in clay soils*

17:15-17:30 *Fabrizio Mazza*, Davide Brambilla, Laura Longoni, Paolo Mazzoleni, Monica Papini, Emanuele Zappa  
*Quantitative evaluation of roughness with a 2D digital instrument*

17:30-17:45 *Levent Yilmaz*  
*The Gravel-Bed River Reach Properties Estimation in Bank slope Stability Modelling*

17:45-18:00 Discussion
L10 - Landslides and socio-economic impact: basic data and loss modelling
Conveners: Lynn Highland, Dalia Kirschbaum, Dave Petley

Austria Room

09:00-09:15 Anne Puissant, Miet Van Den Eeckhaut, Melanie S. Kappes, Maria Papathoma-Köhle, Margreth Keiler, Javier Hervás and Jean-Philippe Malet
An index-oriented methodology for landslide consequence analysis at various spatial scales: an application to a mountain community in the French Alps

09:15-09:30 Kevin Simmons
Damages from Landslides: An Econometric Model for Estimating Potential Losses

09:30-09:45 Rosa Maria Mateos, Inmaculada Garcia, Gerardo Herrera and Joaquin Mulas
Damage caused by recent mass-movements in Majorca (Spain), a region with high risk due to tourism

09:45-10:00 S.K. Sharma and S. Singh
Landslide monitoring in the Himalayan region, India

10:00-10:15 Dalia Kirschbaum, Robert Adler
Evaluation of landslide inventory information: extreme precipitation and global patterns

10:15-10:30 Discussion

L12 - Landslides and reservoirs
Conveners: Alexander Strom, Fawu Wang

German Room

09:00-09:30 Keynote
Reginald L Hermanns, Halgeir Dahle, Per L Bjerke, Giovanni B Crosta, Einar Anda, Lars H Blikra, Aline Saintot, Oddvar Longva and Trond E Eiken
Rock slide dams in Møre Romsdal county, Norway: Examples for the hazard and potential of rock slide dams

09:30-09:45 Jean F. Schneider and Martin Mergili
Recent cases and geomorphic evidence of landslide-dammed lakes and related hazards in the mountains of Central Asia

09:45-10:00 Hans-Balder Havenith, Kanatbek Abdurakhmatov, Isakbek Torgoev, Anatoli Ishuk and Alexander Strom
Earthquakes, landslides, dams and reservoirs in Kyrgyzstan and Tajikistan – special reference to the Kambarata 2 blast-fill dam

10:00-10:15 Micu Mihai and Balteanu Dan
The impact of deep-seated landslides on reservoirs and rivers in Vrancea seismic region

10:15-10:30 Discussion

10:30-11:00 Coffee break

11:00-11:15 Chris Massey, Mauri Mc Saveney and Tim Davies
Evolution of an overflow channel across the Young River Landslide dam, New Zealand

11:15-11:30 Nicholas Roberts, Robin McKillop, Martin Lawrence, John Psutka, John Clague, Marc-andré Brideau and Brent Ward
Impacts of the 2007 landslide-generated tsunami in Chehalis Lake, Canada

11:30-11:45 Danila Fedorov
Engineering-geological estimation of unstable massif downstream from the Chirkey hydropower station
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<td>11:45-12:00</td>
<td>Nanda Wipula Bandara Balasooriya</td>
<td>Investigation of Landslides in Environmental Impact Assessment</td>
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<td>14:30-14:45</td>
<td>Paolo Paronuzzi and Elia Rigo</td>
<td>A coupled seepage-stability model to analyze the Vajont reservoir influence</td>
</tr>
<tr>
<td>14:45-15:00</td>
<td>Paolo Paronuzzi and Alberto Bolla</td>
<td>A new interpretation of the geotechnical context of the Vajont rockslide</td>
</tr>
<tr>
<td>15:00-15:15</td>
<td>Ferdinando Totani, Gianfranco Totani and Sara Amoroso</td>
<td>Triggering mechanism and kinematics of Vajont landslide</td>
</tr>
<tr>
<td>15:15-15:30</td>
<td>Michele Calvello, Francesco Silvestri and Dario Andreotti</td>
<td>Inverse analysis of an active landslide along the banks of a reservoir</td>
</tr>
<tr>
<td>15:30-15:45</td>
<td>Augusto Desideri, Enzo Fontanella and Luca Pagano</td>
<td>Pore water pressure distribution for use in stability analyses of earth dams</td>
</tr>
<tr>
<td>15:45-16:00</td>
<td>Fawu Wang, Zhitao Huo, Yueping Yin, Gonghui Wang and Kimie Sugiura, Li Xianochun</td>
<td>Landsliding caused by water level variation in China Three Gorges Reservoir</td>
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<tr>
<td>16:00-16:30</td>
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<td>Coffee break</td>
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<tr>
<td>16:30-16:45</td>
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<td>Discussion</td>
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<tr>
<td>11:45-17:00</td>
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<td>L15 - Landslides and urban risk reduction</td>
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<tr>
<td>09:00-09:30</td>
<td>Ken Ho</td>
<td>Managing the uncertainties of natural terrain landslides and extreme rainfall in Hong Kong</td>
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<tr>
<td>09:45-10:00</td>
<td>Andrea M. Deganutti, Pia R. Tecca</td>
<td>The case study of Cancia (Dolomites, Italy), a mountain village threatened by a debris flow</td>
</tr>
<tr>
<td>10:00-10:15</td>
<td>Mutluhan Akin, Tamer Topal, Muge K. Akin</td>
<td>Evaluation of the Rockfall Potential of Kastamonu Castle Using 3-D Analysis</td>
</tr>
<tr>
<td>10:15-10:30</td>
<td>Davide Murgese, Dario Fontan, Marina Pirulli, Claudio Scavia, Paolo Oria</td>
<td>Debris-flow risk assessment and land management at municipal scale</td>
</tr>
<tr>
<td>10:30-11:00</td>
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<td>Coffee break</td>
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<tr>
<td>11:00-11:15</td>
<td>Claudio Puglisi, Danilo Campolo, Luca Falconi, Gabriele Leoni, Silvia Lumaca</td>
<td>Landslide hazard assessment project in the Messina municipality area (Sicily, Italy)</td>
</tr>
<tr>
<td>11:15-11:30</td>
<td>Abdul Rahman Pandi, Suhaimi Jamaludin</td>
<td>Minimising losses due to landslides</td>
</tr>
<tr>
<td>11:30-11:45</td>
<td>Marco Amanti, Valerio Vitale and Alessandro Troccoli</td>
<td>Landslides in the Eternal city. Case studies from the past</td>
</tr>
</tbody>
</table>
11:45-12:00  **Eduardo Soares De Macedo**, Kátia Canil, Fabiana Chechinato Silva, Fabrício Araújo Miranda, Marcelo Fischer Gramani, Agostinho Tadashi Ogura and Alessandra Cristina Corsi
Methodological procedures to landslide risk mapping in Brazilian slums

12:00-12:15  Discussion

13:00-14:30 Lunch break

14:30-14:45  **Olena Dragomyretska**, Oleksandr Dragomyrets'kyi, Mikhail Skipa
Assessment of actual morphodynamic activity of landslide slopes in Odessa

14:45-15:00  **Ogbonnaya Igwe**, Hiroshi Fukuoka, Anthony Diyokegwu
Geotechnical properties and stability of a landslide site in South Eastern Nigeria

15:00-15:15  **S.G. Lee** and M.G. Winter
Landslides in Urban Areas of South Korea and some Issues for Successful Risk Reduction

15:15-15:30  **Peng Cui**
Giant Debris Flow in Zhouqu, China: Formation Cause and Mitigation Countermeasures

15:30-16:00  Discussion

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**L29 - Rapid landslide runout analysis**
Conveners: Claudio Scavia, Marina Pirulli

**Ethiopia Room**

09:00-09:15  Introduction to the Session

09:15-09:45  **Keynote**
Christian Scheidl, **Dieter Rickenmann**, Brian W. McArdell
Runout prediction of debris flows and similar mass movements

09:45-10:00  Chiara Deangeli, **Erika Paltrinieri** and Davide Tiranti
Debris flow analysis: from lithological classification of the basin to deposition

10:00-10:15  Maria Marsella, Alberto Sonnessa, **Paolo Tommasi** and Aurora Salino
Stability conditions and evaluation of the runout of a possible landslide at the Northern flank of La Fossa active volcano, Italy

10:15-10:30  Discussion

10:30-11:00  Coffee break

11:00-11:15  Giovanni Mortara, Marta Chiarle, Oldrich Hungr, Luzia Fischer, Fabio Villa and **Andrea Tamburini**
Slope instabilities in high-mountain rock walls.
Recent events on the Monte Rosa east face (Macugnaga, NW Italy)

11:15-11:30  Andrea Filipello, **Giuseppe Mandrone**
A ready to use GRASS GIS workbench for rockfall analysis

11:30-11:45  Daniel Tobler, **Rachel Riner** and Robert Pfeifer
Runout modelling of shallow landslides over large areas with SLIDEPOT

11:45-12:00  **Alexander Preh**, Barbara Kuen, Oldrich Hungr and Rainer Poisel
Run-up of landslide runouts against protective barriers – a comparison of the Particle Flow Code (PFC) and DAN

12:00-12:15  Discussion

13:00-14:30 Lunch break
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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</thead>
<tbody>
<tr>
<td>14:30-14:45</td>
<td><strong>Simonetta Cola, Nancy Calabrò, Paolo Simonini and Manuel Pastor</strong> \n  Effects of grain-size composition examined in laboratory and numerical tests on artificial mud-flows</td>
</tr>
<tr>
<td>14:45-15:00</td>
<td><strong>Claire Sauthier and Vincent Labiouse</strong> \n  Physical modelling of the propagation and deposition of rock avalanches \n  – Recent developments and results</td>
</tr>
<tr>
<td>15:00-15:15</td>
<td><strong>Irene Manzella, Herbert H. Einstein, Giovanni Grasselli</strong> \n  DEM and FEM/DEM modelling of granular flows to investigate large debris avalanche propagation</td>
</tr>
<tr>
<td>15:15-15:30</td>
<td><strong>Guilhem Mollon, Vincent Richefeu, Pascal Villard and Dominique Daudon</strong> \n  Assessment of Discrete Element Modelling parameters for rock mass propagation</td>
</tr>
<tr>
<td>15:30-15:45</td>
<td><strong>Gabriele Pisani, Marina Pirulli, Vincent Labiouse and Claudio Scavia</strong> \n  Influence of bed curvature on the numerical modelling of unconstrained granular materials</td>
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<td>15:45-16:00</td>
<td><strong>Discussion</strong></td>
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<tr>
<td>16:00-16:30</td>
<td><strong>Coffee break</strong></td>
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<tr>
<td>16:30-16:45</td>
<td><strong>Giovanni B. Crosta, Silvia Imposimato, Dennis Roddeman and Parolo Frattini</strong> \n  On controls of flow-like landslide evolution by erodible layer properties and thickness</td>
</tr>
<tr>
<td>16:45-17:00</td>
<td><strong>Laura Maria Stancanelli, Giorgio Rosatti, Lorenzo Begnudelli, Aronne Armanini and Enrico Foti</strong> \n  Single or two-phase modeling of debris flow? A systematic comparison of the two approaches applied to a real debris flow in Giampilieri Village (Italy)</td>
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<tr>
<td>17:00-17:15</td>
<td><strong>Byron Quan Luna, Jose Cepeda, Cees Van Westen, Alexandre Remaitre, Andre Stump, Jean.philippe Malet and Theo Van Asch</strong> \n  Analysis and uncertainty quantification of dynamic run-out model parameters for landslides</td>
</tr>
<tr>
<td>17:15-17:45</td>
<td><strong>Discussion</strong></td>
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</tbody>
</table>
**Friday 7 October**

**L03 - Wildfires and slope instability**
Conveners: Jerome De Graff, Susan Cannon, Pieter Van Lierop, Mario Parise

**Ethiopia Room**

09:00-09:30 **Keynote**
*Jerome V. DeGraff, Susan H. Cannon and Mario Parise*
*Characterizing the Immediate and Subsequent Hazards Caused by Wildfire Occurrence*

09:30-09:45 **Jess Clark, Randy Mckinley**
*Remote Sensing and Geospatial Support to Burned Area Emergency Response (BAER)*
*Teams in Assessing Wildfire Effects to Hillslopes*

09:45-10:00 **Erik Rorem, Corinna Wendeler and Andrea Roth**
*Flexible Debris Flow Barriers in Fire Burned Areas*

10:00-10:15 **Lucia Majorca, Cinzia Civardi and Guido U. Guasti**
*Rockfall and debris flow hazards after summer wildfires in Cerreto Sannita, Benevento, Italy*

10:15-10:30 Discussion

**L07 - Landslide instrumentation and monitoring**
Conveners: Rajenda K. Bandari, Leonardo Cascini, Dario Peduto

**Green Room**

09:00-09:15 **Thuro Kurosch, Singer John and Festl Judith**
*A geosensor network based monitoring and early warning system for landslides*

09:15-09:30 **Christian Arnhardt and Olaf Neussner**
*Setup of a landslide monitoring system on the Philippine Island of Leyte near the village Malinao (Municipality of St. Bernard)*

09:30-09:45 **Fauziah Ahmad, Ahmad Shukri Yahaya, Mohd Azam Osman, Wong Poh Lee and Ahmad Badri Ismail**
*Development of WILMS: Well Inform Landslide Monitoring System for USM Healthy Campus*

09:45-10:00 **Stefano Cardellini**
*The Ancona early warning centre, instrumentation and continuous monitoring of the landslides*

10:00-10:15 **Zbigniew Bednarczyk**
*New real-time landslide monitoring system in Polish Carpathians*

10:15-10:30 Discussion

**L08 - GIS application developments**
Conveners: Serafino Angelini, Esther Jensen, Raffaele De Amicis

**German Room**

09:00-09:15 **Ali Uromeihy and Mahsa Sharif**
*Evaluation and zonation of landslide hazard in Northern Tehran districts*

09:15-09:30 **Martin Mergili, Katharina Schratz, Alexander Ostermann and Wolfgang Fellin**
*A GRASS GIS implementation of the Savage-Hutter avalanche model and its application to the 1987 Val Pola event*
09:30-09:45  **Martin Mergili** and Wolfgang Fellin  
*Three-dimensional modelling of rotational slope failures with GRASS GIS*

09:45-10:00  **Marco Petitta, Fabrizio Millesimi, Piero Farabollini, Serafino Angelini** and Riccardo M. Menotti  
*Application of the computerised cartography to the territory management: the geomorphological map of palaeolandslides in the Velino River Valley (Central Apennines, Italy)*

10:00-10:15  **Oleksandr Trofymchuk, Iurii Kaliukh, Iryna Trofimova** and Anna Glebchuk  
*Mathematical and GIS-modeling of landslides in Kharkiv region of Ukraine*

10:15-10:30  **Halvor Bunkholt**, Bobo Nordahl, Reginald L. Hermanns, Thierry Oppikofer, Luzia Fischer, Lars Harald Blikra, Einar Anda, Halgeir Dahle and Stine Sætre  
*Database of unstable rock slopes of Norway*

10:30-11:00  **Coffee break**

11:00-11:15  **Paola Salvati**, Ivan Marchesini, Vinicio Balducci, Cinzia Bianchi and Fausto Guzzetti  
*A new digital catalogue of harmful landslides and floods in Italy*

11:15-11:30  **Raffaele De Amicis, Federico Prandi, Giuseppe Conti, Diego Taglioni, Stefano Piffer, Marco Calderan and Alberto Debiasi**  
*Landslides and Spatio-Temporal Processing of Geographical Information*

11:30-11:45  **Peter T. Bobrowsky** and Maria José Domínguez-Cuesta  
*Proposed landslide susceptibility map of Canada based on GIS*

11:45-12:00  **Chunxiang Wang**, Hideaki Marui, Gen Furuya and Naoki Watanabe  
*Two integrated models simulating dynamic process of landslide using GIS*

12:00-12:15  **Sebastiano Perriello Zampelli**  
*A GIS-aided method for an assessment of the sliding susceptibility of volcaniclastic soils in Campania (Italy)*

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**L09 - Advances in slope stability modelling**

Conveners: Ken Ho, Filippo Catani, Giulio Iovine, Alberto Ledesma

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**Austria Room**

09:00-09:15  **Domenico Gullì**, Maura Pellegrì  
*Experimental approach for stability evaluations of Carrara marble basins*

09:15-09:30  **Alberto Grimod**, Giorgio Giacchetti  
*Protection from high energy impacts using reinforced soil embankments: design and experiences*

09:30-09:45  **Stefano Barontini**, Marco Peli Thom A. Bogaard and Roberto Ranzi  
*Dimensionless numerical approach to perched waters in 2D gradually layered soils*

09:45-10:00  **Jean-françois Parrot**, Veronica Ochoa-Tejeda  
*The 2010 muddy-debris flow of Angangueo (Mexico). Modelling and simulation.*

10:00-10:15  **Bin He**, Kyoji Sassa, Maja Ostric, Kaoru Takara, Yosuke Yamashiki  
*Effects of parameters in landslide simulation model LS-RAPID on the dynamic behaviour of earthquake-induced rapid landslides*

10:15-10:30  **Sabrina Bonetto, Cesare Comina, Andrea Giuliani, Giuseppe Mandrone**  
*Geological and geophysical tests to model a small landslide in the Langhe hills*

10:30-11:00  **Coffee break**
11:00-11:15 **Marcello Brugioni**, Bernardo Mazzanti, Giovanni Montini, Lorenzo Sulli  
*Use of SAR interferometry for landslide analysis in the Arno river basin*

11:15-11:30 **Chunxiang Wang**, Željko Arbanas, Snježana Mihalić, Hideaki Marui  
*Three dimensional stability analysis of the Grohovo landslide in Croatia*

11:30-11:45 **Chia-ming Lo**, Tien-yao Cheng, Lun-wei Wei, Cheng-yang Hsiao, Chin-tung Cheng, Ming-lang Lin  
*Kinematic Process of the Xiaolin Landslide*

11:45-12:00 **Yolanda Deubelbeiss**, **Christoph Graf**, Marc Christen  
*Numerical modeling of debris flows with RAMMS – Alpine case studies*

12:00-12:15 Discussion

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**L14 - Landslides (and legislation), policies, cost benefit analysis and decision makers**

Conveners: Raoul Carreno, Giuliano Di Baldassarre, Tiziana Guida

**Iran Room**

09:00-09:15 **Giuliano Di Baldassarre**  
*Introduction*

09:15-09:30 **Gaia Checcucci**  
*Landslide Risk Management in the Arno River Basin*

09:30-09:45 **Graziella Devoli**, Terje Bargel, Andrea Taurisano, Toril Wiig, Hallvard Berg, Eli Øydvin, Reginald L. Hermanns and Louise Hansen  
*Identifying needs and areas for future landslide hazard mapping in Norway*

09:45-10:00 **Margarete Wöhrer Alge**  
*Landslide management in Austria with particular attention to hazard mapping and land use planning*

10:00-10:30 **Keynote**  
**Fabio Trezzini**, Gianluigi Giannella and Tiziana Guida  
*Landslide and flood: economic and social impacts in Italy*

10:30-11:00 Coffee break

11:00-11:15 Nando Ferranti, Giovanni De Caterini, **Quintilio Napoletani** and Gabriele Leoni  
*Landslides and Quarries in Italy: reflections on census and safety*

11:15-11:30 **Nikolai Dobre**  
*Landslide problems in Bulgaria: factors, distribution and countermeasures*

11:30-11:45 Italo Giulivo, Fiorella Galluccio, **Fabio Matano**, Lucia Monti and Carlo Terranova  
*Landslide risk and mitigation policies in Campania Region (Italy)*

11:45-12:00 **Surya Parkash Gupta**, Om Prakash and J.C. Dhoudiyal  
*Some Case Studies on Catastrophic Landslides in Uttarakhand State, India – Records and Implications in Strategy for Landslides Risk Reduction*

12:00-12:15 Discussion
L17 - Advanced technologies for landslide stabilisation
Conveners: Paul Marinos, Paolo Tommasi

Philippines Room

09:00-09:30  Keynote
Gianfranco Urcioli, Marianna Pirone
Subsurface drainage for slope stabilization

09:30-09:45  Tiziana Verrascina, Claudio Zarotti, Costantino Panzani and Nicola Era
Surface protection of slopes by grass covering techniques

09:45-10:00  Luis Miguel Laguna Megal, Jaime Perera Bermúdez, Raúl Chaminade Bautista, Adolfo Hoyos Limón - Gil, Juan Carpio Garoz and Javier Velasco Nuñez
High capacity flexible systems for slope stabilization in La Gomera (Spain)

10:00-10:15  Giorgio Giacchetti and Alberto Grimod
Soil Nailing with flexible structural facing: design and experiences

10:15-10:30  Shanker Dhakal, Netra Prakash Bhandary, Ryuichi Yatabe and Naoki Kinoshita
Finite Element Modelling and Parametric Analyses
of a Long-span Pocket-type Rockfall Interceptive Cable-Net Structure

10:30-11:00  Coffee break

11:00-11:15  Chaido Doulala-Rigby, Andrew Stone
Landfill slip failure repair with geogrids using waste fill material at Danylan, Wales

11:15-11:30  Giovanni Vaciago
The SafeLand compendium of landslide risk mitigation measures

11:30-11:45  Giuliano Sauli
Erosion control of mountain rocky streams by means
of soil bioengineering techniques in nord – east Italy

11:45-12:00  Pandolfi Valentino

12:00-12:15  Discussion

L23 - Landslides in coastal areas
Conveners: Vincenzo Liguori, Crescenzo Violante

Ethiopia Room

11:00-11:15  Boyko Berov
State of the art for landslides along the North Bulgarian Black Sea coast

11:15-11:30  Thom Bogaard, Olivier Maquaire, Candide Lissak and Jean-philippe Malet
Identification of hydro-meteorological triggers for Villerville coastal landslide

11:30-11:45  Olivier Marc, Sedan Olivier and Monod Bernard
Contribution of physical modelling to landslide hazard mapping:
case of the French Basque coast

11:45-12:00  Fernando Marques, Rita Matildes and Paula Redweik
Statistically based sea cliff instability susceptibility assessment at regional scale,
at the Burgau-Lagos coastal section (Algarve, Portugal)

12:00-12:15  Crescenzo Violante
Coupling on-land and marine investigations to assess coastal instability
in the Napoli and Salerno bays (Campania, Southern Italy)
Keynote Speaker

Monday, 3 October

14:30-15:00  A. Ferrero  
Landslide Transportation network and lifelines: rockfall and debris flow  
L11 – Landslides, transportation network and lifelines  
Iran Room  
14:30-15:00  Malcolm G Anderson  
Landslide risk reduction in developing countries: Perceptions, successes and future risks for capacity building  
L21 – Landslide education, training and capacity development  
German Room  
14:30-15:00  Maarten Vanneste  
Submarine landslides and their consequences: What do we know, what can we do?  
L22 – Submarine landslides and tsunami  
Ethiopia Room  
14:30-15:00  Edwin Harp  
The Effect of Complex Fault Rupture in the Distribution of Landslides Triggered by the 12 January 2010, Haiti Earthquake  
L25 – Seismically induced landslides and seismic landslide hazard analysis  
Austria Room

Tuesday, 4 October

11:00-11:30  Cees van Westen  
From landslide inventories to landslide risk assessment; an attempt to support methodological development in India  
L04 - Landslide inventory and susceptibility and hazard zoning  
Green Room  
11:00-11:30  Federica Cotecchia  
Instrumentation and monitoring for the interpretation of the landslide mechanism: proposed strategy and examples of application  
L07 - Landslide instrumentation and monitoring  
Iran Room  
11:00-11:30  Stephan Gruber  
Landslides in cold regions: making a science that can be put into practice  
L26 - Landslides in cold regions  
German Room

Wednesday 5 October

09:00-09:30  Claudio Margottini  
Cultural Heritage in landslide areas: between adaptation and mitigation  
L24 - Landslides and cultural heritage  
German Room
**Thursday 6 October**

09:00-09:30  **Reginald L Hermanns**
Rock slide dams in Møre Romsdal county, Norway: Examples for the hazard and potential of rock slide dams
L12 - Landslides and reservoirs
German Room

09:00-09:30  **Ken Ho**
Managing the uncertainties of natural terrain landslides and extreme rainfall in Hong Kong
L15 - Landslides and urban risk reduction
Philippines Room

09:15-09:45  **Dieter Rickenmann**
Runout prediction of debris flows and similar mass movements
L29 - Rapid landslide runout analysis
Ethiopia Room

14:45-15:15  **Giovanni Vaciago**
Geomechanical basis of landslide classification and modelling of triggering
L09 - Advances in slope stability modelling
Austria Room

**Friday 7 October**

09:00-09:30  **Jerome V. DeGraff**
Characterizing the Immediate and Subsequent Hazards Caused by Wildfire Occurrence
L03 - Wildfires and slope instability
Ethiopia Room

09:00-09:30  **Gianfranco Urcioli**
Subsurface drainage for slope stabilization
L17 - Advanced technologies for landslide stabilisation
Philippines Room

10:00-10:30  **Fabio Trezzini**
Landslide and flood: economic and social impacts in Italy
L14 - Landslides (and legislation), policies, cost benefit analysis and decision makers
Iran Room
**Panelist**

**Tuesday, 4 October**

09:15-09:40  **Jacques Locat**  
*Some considerations on the effect of climate change on mass movements and their consequences*  
L01 - Landslide scenarios accounting for the climatic, geomorphological and geotechnical context  
Philippines Room

09:40-10:05  **Jan Klimeš**  
*Landslides in the outer Western Carpathians, Central Europe*  
L01 - Landslide scenarios accounting for the climatic, geomorphological and geotechnical context  
Philippines Room

10:05-10:30  **Sarah Springman**  
*Rock glacier degradation and instabilities in the European Alps: a characterisation and monitoring experiment in the Turtmanntal, CH*  
L01 - Landslide scenarios accounting for the climatic, geomorphological and geotechnical context  
Philippines Room

10:35-11:00  **Pasquale Schiano**  
*Climatic scenarios on the Mediterranean area*  
L01 - Landslide scenarios accounting for the climatic, geomorphological and geotechnical context  
Philippines Room

11:00-11:25  **Emilia Damiano**  
*Potential effects of climate change on slope stability in unsaturated pyroclastic soils*  
L01 - Landslide scenarios accounting for the climatic, geomorphological and geotechnical context  
Philippines Room

11:25-11:50  **S.G. Lee**  
*The presumed effects of the expected climatic changes on the stability of slopes in Far East region*  
L01 - Landslide scenarios accounting for the climatic, geomorphological and geotechnical context  
Philippines Room
DAILY POSTER PROGRAMME

TUESDAY 4 OCTOBER

L11 - Landslides, transportation network and lifelines
Conveners: Jordi Corominas, Gian Paolo Giani, Tiziana Apuani

Poster Area
Display Time 08:00-18:00
Author in Attendance: 11:00-12:15

WLF2-0592 Giacomo D’amato Avanzi, Yuri Galanti, Roberto Giannecchini and Alberto Puccinelli
Fragility of territory and infrastructures resulting from rainstorms in Northern Tuscany (Italy)

WLF2-0158 Svetozar Milovan, Milovan Jotic, Bosko Ubiparip and Petar Mitrovic
Database on landslides in the process of road network maintenance in the Republic of Serbia

WLF2-0312 Carles López, Jordi Amigó, Laura López, Joan Altimir and Joan Torrebadella
CUTTING D15: Stabilization of a large landslide in Marrakesh

WLF2-0313 Jordi Amigó, Joan Altimir and Joan Torrebadella
Methodology for managing and determining rockfall risk in the road network of the Principality of Andorra

WLF2-0217 Carlos Eduardo Rodriguez Pineda, Luis Fernando Urrego and César Eduardo Sánchez
Road risk assessment due to rainfall-induced landslides

WLF2-0142 Saravanan Mariappan, Nik Ramlan Nik Hassan, Steven Chong and Syed Mohd Hikam Syed Mohd Zain
Reconstructing a failed road embankment over a valley with high water table in Malaysia

L20 - Integrated approach to landslide risk mitigation
Conveners: José Cepeda, Lino Versace

Poster Area
Display Time 08:00-18:00
Author in Attendance: 09:00-10:30

WLF2-0479 Stefania Pascale and Francesco Sdao
Landslide susceptibility in Archaeological and Natural Historic Park of Rupestrian Churches

WLF2-0587 Riccardo Torri, Davide Murgese and Costanza Morino
Sinkhole monitoring to support landslide management

WLF2-0258 Ekaterina Bezuglova and Sergey Matsiy
Engineering and geological grounds of landslide protection reliability of structures
WLF2-0167  Hongjian Liao, Zongyuan Ma, Chunming Ning and Kyoji Sassa
A Case investigation of Landslides in Loess Area

WLF2-0806  A. A. Virajh Dias, Nihal Rupasinghe, Jagath Gunathilaka
Joint Technical Emergency Operation Experiences on Landslide Disaster Mitigation Event 2003, Sri Lanka

**L21 - Landslide education, training and capacity development**
Conveners: Dwikorita Karnawati, Surya Prakash

**Poster Area**
Display Time 08:00–18:00
Author in Attendance: 11:00-12:15
WLF2-0139  Surya Parkash
Awareness and Preparedness Strategies for Community Based Disaster Risk Management with particular reference to Landslides

**L22 - Submarine landslides and tsunami**
Conveners: Jacques Locat, Roger Urgeles, Paolo Mazzanti

**Poster Area**
Display Time 08:00–18:00
Author in Attendance: 11:00-12:15
WLF2-0434  Giovanni B. Crosta, Silvia Imposimato and Dennis Roddeman
Interaction of landslide mass and water resulting in impulse waves

**L25 - Seismically induced landslides and seismic landslide hazard analysis**
Conveners: Ed Harp, Hideaki Marui, Luca Guerrieri

**Poster Area**
Display Time 08:00–18:00
Author in Attendance: 16:30-18:00
WLF2-0371  Bateer Hasi, Kiyoteru Maruyama, Akira Nakamura and Tomoyuki Noro
Statistical analysis of deep-seated landslides induced by recent strong earthquakes in eastern Japan: an approach based on pre-existing landslide topography
WLF2-0372  Akira Nakamura, Kiyoteru Maruyama, Bateer Hasi and Tomoyuki Noro
Susceptibility mapping of deep-seated landslides around active fault system, a case study of western Niigata, Japan
WLF2-0671  Martín J. Rodríguez Peces, José Vicente Pérez Peña, José M. Azañón and A. Jiménez Gutiérrez
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WLF2-0400  Shiho Asano
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WLF2-0555  Nguyen Anh Tuan, Darrozes Jose, Soula Jean-claude, Courjault-radé Pierre and Saillard Marianne
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WLF2-0187  Keizo Ugai, Akihiko Wakai, Fei Cai and Seiichiro Kuroda
Mechanism of Landslide Composed of Strongly Weathered Mudstone Induced by the 2004 Mid-Niigata Earthquake

WLF2-0335  Farideh Azin and Mohammad Reza Mahdavifar
Hazard zoning of Landslides Triggered by the 2005 Dahoieh, Zarand Earthquake

WLF2-0117  Xiangning Xu, Lansheng Wang, Shiqiang Zhu and Yongxu Yuan
Relevances Analyses Between The Earthquake and Slope Deformation Fracture

WLF2-0546  Takashi Saito, Yo Fukushima and Koji Matsunami
Detecting the surficial displacements triggered by the 2007 Noto Peninsula Earthquake by the use of InSAR and GIS techniques

WLF2-0621  Rosamaria Trizzino
Landsliding in seismic areas: analysis of the interrelationship between strong-shaking patterns and slope stability conditions. A study case

WLF2-0334  Koji Matsunami, Wataru Morii, Takashi Saito and Hiroshi Fukuoka
Earthquake-induced tilts, up and down motions of a huge landslide mass triggered by the 2008 Iwate-Miyagi Nairiku Earthquake in Japan

**L26 - Landslides in cold regions**
Conveners: Marten Geertsema, Marta Chiarle, Wei Shan

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WLF2-0559  Domenico Aringoli, Bernardino Gentili, Marco Materazzi, Gilberto Pambianchi and Nicola Sciarra
DSGSDs induced by post-glacial decompression in central Apennine (Italy)

WLF2-0318  Vanessa Wirz, Stephan Gruber, Jan Beutel, Benjamin Buchli, Philippe Limpach and Alain Geiger
Temporal characteristics of different cryosphere-related slope movements in high mountains
**Wednesday 5 October**

**L01 - Landslide scenarios accounting for the climatic, geomorphological and geotechnical context**

Conveners: Luciano Picarelli, Vit Vilimek

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L04 - Landslide inventory and susceptibility and hazard zoning

Conveners: Javier Hervas, Gabriel Legorreta, Miet Van Den Eeckhaut, Alessandro Trigila

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WLF2-0384  Goffredo Manzo, Veronica Tofani, Samuele Segoni, Alessandro Battistini, Filippo Catani
Application of GIS techniques for landslide susceptibility assessment at regional scale

WLF2-0449  José Fernando Aceves Quesada, Victor Manuel Martínez Luna, Gabriel Legorreta Paulin
A multitemporal analysis of gravitational processes in the endorreic basin La Ciénaga, oriental flank of the Nevado de Toluca Volcano, Mexico

WLF2-0624  Helene Petschko, Rainer Bell, Philip Leopold, Gerhard Heiss, Thomas Glade
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WLF2-0553  Paolo Roberto Federici, Alberto Puccinelli, Giacomo D’Amato Avanzi, Francesco Falaschi, Roberto Giannecchini, Daria Marchetti, Alberto Pochini, Franco Rapetti, Adriano Ribolini
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WLF2-0320  Gabriel Legorreta Paulin, Marcus Bursik, José Lugo Hubp
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WLF2-0631  Halvor Bunkholt, Tim Redfield, Per Terje Osmundsen, Thierry Oppikofer, Reginald L. Hermanns, John Dehls
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WLF2-0715  Heon-Woo Lee, Hyuck-Jin Park, Ik Woo, Jeong-Gi Um
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WLF2-0704  Jorge Yepes, Martín Jesús Rodríguez-Peces, Sara Marchesini, Sergio Leyva, José Luis Díaz-Hernández
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WLF2-0429  Claudia Meisina, Davide Zizioli, Francesco Zucca
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WLF2-0266  Giulio Masetti, Giuseppe Ottria, Franco Ghiselli, Aldo Ambrogio, Gianluca Rossi, Lanfranco Zanolini
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WLF2-0396  Philip Leopold, Gerhard Heiss, Helene Petschko, Rainer Bell, Thomas Glade
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WLF2-0643  Pere Oller, Marta González, Jordi Pinyol, Marcel Barberà, Pere Martínez
The geological hazard map of Catalonia 1:25 000. A tool for geohazards mitigation

WLF2-0249  Jošt Sodnik, Tomáž Podobnikar, Urška Petje, Matjaž Mikoš
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WLF2-0299  Marco Capitani, Paolo Roberto Federici
MSUE Conditional Method predictive power, Milia Basin, Tuscany, Italy
WLF2-0599  Giacomo D’Amato Avanzi, Yuri Galanti, Roberto Giannecchini, Susanna Duchì, Diego Lo Presti, Daria Marchetti  
*DP test in geotechnical characterization of shallow landslides source area: results and perspectives*

WLF2-0227  Namphon Khampilang, Malcolm Whitworth  
*Creation of landslide inventory map for the Toktogul region of Kyrgyzstan, Central Asia*

WLF2-0269  Dario Costanzo, Edoardo Rotigliano, Clemente Irigaray, Jorge D. Jiménez-Perálvarez, José Chacón  
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WLF2-0175  Mihaela Constantin, Martin Bednarik, Marta-Cristina Jurchescu, Koji Ishida, Kei Higuchi  
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WLF2-0687  Maurizio Lazzari, Maria Danese  
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WLF2-0273  Enrico Bima, Sara Elisa Domenica Castagna, Giuseppe Mandrone  
*Lithotechnical input for debris flow triggering analysis: examples in Western Alps (Italy)*

WLF2-0541  Angelo Donnarumma, Paola Revellino, Gerardo Grelle, Francesco Maria Guadagno  
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WLF2-0269  Mauro Generali, Marco Pizziolo  
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**L06 - Landslides and extreme weather**
Conveners: Hiroshi Fukuoka, Gabriele Scarascia Mugnozza

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WLF2-0253  Paolo Maria Guarino, Riccardo Massimiliano Menotti, Guido Motteran and Roberto Serafini  
*Flood and slope processes in the Scura Valley (Reatini Mts., Central Apennines, Italy). Meteo-climatic analysis and geomorphological evolution*

WLF2-0392  Gianluca Martelloni, Samuele Segoni, Filippo Catani and Riccardo Fanti  
*Snow melt modelling for improving the forecasts of rainfall threshold-based landslide triggering*

WLF2-0660  Jose Cepeda  
*The I-A-D threshold function: accounting for Antecedent precipitation in the Intensity-Duration power law form*

WLF2-0680  Nele Kristin Meyer, Anita Verpe Dyrrdal and Regula Frauenfelder  
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WLF2-0661  Jose Cepeda, Jean Philippe Malet and Alexandre Remaitre  
*Landslide inventories at Barcelonnette (France), Norangselva and Nedre Romerike (Norway) for estimating rainfall thresholds*
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Conveners: Giovanni Crosta, Matjaz Mikos, Ziaoddin Shoaei

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WLF2-0644 Dan Shugar, John Clague and Marco Giardino  
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WLF2-0609 Davide Brambilla, Laura Longoni, Fabrizio Mazza and Monica Papini  
*An automated method for solid transport evaluation in mountain basins*

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**L16 - Early warnings and emergency plans**  
Conveners: Nicola Casagli, Yin Yuepin

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WLF2-0579 Shibiao Bai, Jian Wang, Thomas Glade, Rainer Bell and Benni Thiebes  
*Rainfall threshold analysis and landslide susceptibility mapping in Wudu county*

WLF2-0678 Maurizio Lazzari, Marco Piccarreta and Domenico Capolongo  
*Landslide Triggering and Local Rainfall Thresholds in Bradanic Foredeep, Basilicata Region (southern Italy)*

WLF2-0419 Francesco Ponziani, Nicola Berni, Marco Stelluti, Renato Zauri, Luca Brocca, Tommaso Moramarco, Diana Salciarini and Claudio Tamagnini  
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WLF2-0654 Marcelo Fischer Gramani  
*Processes and risk scenarios identified during the emergency actions undertaken in the Vale do Itajai (Brazil) in 2008*

WLF2-0383 Byung-gon Chae, Jeong-hae Choi and Yong-seok Seo  
*An alternative method of landslide early warning by gradient of volumetric water content*

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**L24 - Landslides and cultural heritage**  
Conveners: Paolo Canuti, Yoshinori Iwasaki, Daniele Spizzichino

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WLF2-0118 Iuliia Blinova and Andrey Bredikhin  
*Assessment of geomorphological risks and attractiveness for recreational purposes in areas with high contemporary relief dynamics*

WLF2-0619 Claudio Margottini  
*Large rock slide and fall in the cradle of Christianity: Maaloula (Damascus, Syria)*
WLF2-0635  Claudio Margottini  
*The Park of Monsters of Bomarzo (Central Italy): from rock fall to a resort area.*

WLF2-0398  Claudio Margottini, Giuseppe Delmonaco, Daniele Spizzichino and Orlando Pandolfi  
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WLF2-0739  Claudio Margottini  
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WLF2-0600  Daniele Spizzichino, Claudio Margottini, Silvia Castellaro and Francesco Mulargia  
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WLF2-0642  Irene Delaveris and Claudio Margottini  
*Soil erosion constrain in the conservation of Akapana Pyramid Mound (Tiwanaku, Bolivia)*

WLF2-0665  Claudio Margottini, Daniele Spizzichino, Silvia Castellaro and Francesco Mulargia  
*Vibration analysis for prediction of rock fall instability: application to the archaeological ceremonial center of Mata Ngarau (Orongo Village, Rapa Nui)*

WLF2-0669  Matteo Bernardi, Lisa Borgatti, Francesca Continelli, Monica Ghirotti, Cristiano Guerra, Alberto Landuzzi, Claudio Corrado Lucente and Gianfranco Marchi  
*San Leo: ten centuries of coexistence with landslides*

WLF2-0523  Zerkal Oleg, Gvozdeva Irina and Fomenko Igor  
*Landslide Mapping and Landslide Hazard Assessment in Geyser Valley (Kamchatka, Russia)*

WLF2-0591  Luigi Coppola and Edward Bromhead  
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WLF2-0728  Filippo Maria Soccodato, Luciano Tortoioli, Angelo Maria Mazzi and Federico Uccelli  
*The Orvieto Observatory*

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**L28 - Risk management in Multi-hazard environment**

Conveners: Peter Bobrowsky, Salvano Briceno, Peter Lyttle, Giuseppe Delmonaco

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WLF2-0647  Jorge Yepes, Martín Rodríguez Peces, Nieves Sánchez, Inés Galindo and Rodrigo Del Potro  
*Geomorphologic evidences of flank instabilities in the eastern sector of the Tejeda Volcano (Canary Islands, Spain) during the Quaternary*

WLF2-0651  Jorge Yepes, Nieves Sánchez, Martín Rodríguez Peces, Inés Galindo and Rodrigo Del Potro  
*Geomorphologic evidences of great flank collapses in the northwest of Gran Canaria (Canary Islands, Spain)*
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**L08 - GIS application developments**

Conveners: Serafino Angelini, Esther Jensen, Raffaele De Amicis

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WLF2-0698 Esther Hlíðar Jensen, Jón Kristinn Helgason, Sigurjón Einarsson, Guðrun Sverrisdóttir, Ármann Hóskuldsson and Björn Oddsson  
*Lahar, Floods and Debris flows resulting from the 2010 Eruption of Eyjafjallajökull: Observations, Mapping and Modelling*

WLF2-0111 Herwig Proske, Klaus Granica and Christian Bauer  
*Different Approaches of Rockfall Susceptibility Maps in Lower Austria*

WLF2-0280 Iuliana Armas, Florica Stroia and Laura Giurgea  
*Statistic versus deterministic method for landslide susceptibility mapping*

WLF2-0452 Eliene Coelho and Luciana Pascarelli  
*Using the information system and multi-criteria analysis in the geological risk management in São Paulo*

WLF2-0482 Mauro Palombella  
*Maps of Landslide areas with technical GIS: the use of high resolution DTM*

WLF2-0415 Carlo Bisci, Domenico Aringoli, Piero Farabollini, Marco Materazzi and Gilberto Pambianchi  
*Landslide hazard in the Marche Region (Central Italy): a GIS based statistical analysis.*

WLF2-0722 Elisa Arnone, Annalisa Di Piazza, Leonardo V. Noto and Goffredo La Loggia  
*Landslide susceptibility mapping: A comparison of logistic regression and neural networks methods in a small Sicilian catchment*

WLF2-0223 Pietro Domenico De Cosmo, Andrea Suma, F. Javier Gracia and Franco Mantovani  
*Project KNOWLAND - Open Source Software serving real-time landslide mapping and hazard assessment*

**L09 - Advances in slope modelling**

Conveners: Ken Ho, Filippo Catani, Giulio Iovine, Alberto Ledesma

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WLF2-0421 Gianluca Martelloni, Emanuele Massaro and Franco Bagnoli  
*A theoretical model based on molecular dynamics for triggering and propagation of shallow landslides induced by rainfall*

WLF2-0461 Pantaleone De Vita and Michele Nappi  
*Regional distribution of ash-fall pyroclastic soils for landslide susceptibility assessment*

WLF2-0656 Massimo Amodio, Giancarlo Bovina, Massimo Buscema, Luigi Catzola, Alessandro Corsini, Marco Fabrizi, Christian Iasio, Mario Gentili, Volkmar Mair, Claudio Margottini and Markus Sperling  
*Twisting Theory and RCR MST: A new highly non linear modeling applied to Corvara landslides*
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WLF2-0487  Martín J. Rodríguez Peces, Jorge Yepes Temiño and Esther Martín Nicolau  
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WLF2-0361  Giulio G.r. Iovine, Stefano L. Gariano, Pasquale laiquinta and Oreste G. Terranova  
CMSAKe: a hydrological model to forecasting landslide activations

WLF2-0352  George Papathanassiou, Vasilis Marinos, Dimitris Vogiatzis and Sotiris Valkaniotis  
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WLF2-0363  Oreste G. Terranova, Stefano L. Gariano, Roberto Greco, Pasquale laiquinta, Annamaria D. Pellegrino and Giulio G.r. Iovine  
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WLF2-0113  Xu Xiangning, Wang Lansheng and Chen Yuliang  
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WLF2-0148  Aline Freitas Da Silva and Lázaro Valentín Zuquette  
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WLF2-0745  Jang, Kyoung-jun Male  
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WLF2-0450  Byung-gon Chae, Kyu-bo Park and Hyuck-jin Park  
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WLF2-0459  Pantaleone De Vita, Durante Aquino and Pietro Bruno Celico  
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WLF2-0109  Yang Hong, Zonghu Liao, Dalia Kirschbaum and Robert Adler  
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**L10 - Landslides and Socio-economic Impact: Basic Data and Loss Modeling**
Conveners: Lynn Highland, Dalia Kirschbaum, Dave Petley

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WLF2-0301 Sandu Boengiu and Marcel Török
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WLF2-0410 Olga Petrucci and Maria Carme Llasat
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WLF2-0473 Olga Petrucci and A. Aurora Pasqua
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WLF2-0198 Narayan Gurung
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WLF2-0585 Surya Parkash Gupta, J.C. Dhondiyal and Om Prakash
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**L12 - Landslides and reservoirs**
Conveners: Alexander Strom, Fawu Wang

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WLF2-0442 Pompeo Coico, Domenico Calcaterra, Tommaso De Pippo, Diego Di Martire and Domenico Guida
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WLF2-0455 Vladimir Bestrashnov, Anatoliy Zhirkrevich and Alexander Strom
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WLF2-0550 Laura Superchi, Luca Zorzi, Fabio Ferri, Rinaldo Genevois and Maria Iafelice
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WLF2-0194 Vladimir Prokopovich and Tatyana Sozinova
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WLF2-0726 Ella Nesynova, Igor Parabuchev and Alexander Yudkevitch
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WLF2-0182 Isakbek Torgoev, Yurii Alioshin, Hans-baldner Havenith and Alexander Strom
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WLF2-0145 Nikolay Ischuk
The Origin of the Mountain River Closures in Tajikistan

WLF2-0177 Erast Gaziev
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WLF2-0343 Yong Yuan, Qiang Xu and Minggao Tang
Extremely large rock avalanche induced by the “S.12” Wenchuan earthquake, Chaoyang Village, China, 2008

WLF2-0517 Zerkal Oleg, Ishchuk Nikolai and Ishchuk Anatoly
Baypaza landslide: structure, mechanism of displacement and present conditional
WLF2-0133  Tang Yanchun
Analysis and Prediction on Stability of Mu-zhu-ping Slope Based
on Coupled Fluid-Solid Theory of ABAQUS

WLF2-0538  Takashi Saito and Koji Matsunami
The initiation processes of huge landslide masses triggered
by the Iwate-Miyagi Nairiku Earthquake in the Aratosawa reservoir

WLF2-0706  Derek Rust, Andrey Korjenkov and Alessandro Tibaldi
Reservoirs and landslide-dammed lakes along the Talas-Fergana fault,
central Tien-Shan mountains, Kyrgyzstan: assessing hazard potential

WLF2-0112  Shuai Zhang
Risk Assessment of geological disasters happened in Hydropower Project using GIS

**L14 - Landslides (and legislation), policies, cost benefit analysis and decision makers**
Conveners: Raoul Carreno, Giuliano Di Baldassarre, Tiziana Guida

**POSTER AREA**
Display Time 08:00–18:00
Author in Attendance: 16:30-18:00

WLF2-0244  Boualem El Kechebour
Setback distance between natural slope and building along the RN8 in Algeria

WLF2-0456  Raluca Maftei, Elena Tudor, George Vina and Constantina Porumbescu
The policy issue of landslides in Romania

WLF2-0570  Jan Klimeš, Stanislav Štábl, Josef Stemberk and Dušan Dufka
NEMETON - decision support system for rockfall and rock slide hazard mitigation

**L15 - Landslides and urban risk reduction**
Conveners: Domenico Calcattera, C.F. Lee

**POSTER AREA**
Display Time 08:00–18:00
Author in Attendance: 16:30-18:00

WLF2-0239  Yuriy Aleshin and Isakbek Torgoev
Algorithmization of landslide prediction based on neural network modelling

WLF2-0430  José Daniel Brea, Pablo Spalletti and Gabriel Amores
The 2006 and 2009 landslide and flood events in the Tartagal river basin (Argentina)

WLF2-0611  Martin Krkač, Pavle Ferić, Laszlo Podolszki and Aleksandar Toševski
Japanese - Croatian Project: Preliminary Investigations of the Kostanjek Landslide

WLF2-0252  Ylber Muceku and Mentor Lamaj
Mass movement and risk assessment in Kruja town, Albania

WLF2-0451  Luciana Pascarelli, Rafaela Lancone, Rodrigo Costa, Luiz Pires,
Eduardo Macedo, Fabricio Miranda, Fabiana Checchinato and Katia Canil
Mapping of geological at-risk areas in the city of São Paulo: issues and results
from the largest survey of risk in Brazil

WLF2-0510  Giandomenico Fubelli, Francesco Dramis, Domenico Guida and Antonello Cestari
Landslide Hazard and Risk in the Dessie Town Area (Ethiopia)
WLF2-0605  Fabio Cafiso
New technologies employed in studying, monitoring and stabilization of San Fratello landslide

WLF2-0285  Joan Torrebadella, Joan Altimir and Ivan Villaró
El Forn landslide (Andorra), an example of geological risk management in large sliding inhabited areas

L17 - Advanced technologies for landslide stabilisation
Conveners: Paul Marinos, Paolo Tommasi

Poster Area
Display Time 08:00–18:00
Author in Attendance: 16:30-18:00

WLF2-0480  Martín J. Rodríguez Peces, José M. Azañón, Julián García Mayordomo, Emilia Troncoso and Meaza Tsige
Effectiveness of deep drainage wells as a slope stabilization measure: the reactivation of the Diezma landslide (Southern Spain)

WLF2-0332  Xinli Hu, Huiming Tang and Chunguang Zhang
Effectiveness of Anti-sliding Piles for Wulidui landslide under Rainfall Condition

WLF2-0130  Yangqing Xu
Research on the Mechanism and Mitigation for an old Landslide Reactivated by Underground Coal Ming

WLF2-0453  Valeriy Tishin
Methods of the Ulianovsk City landslide-prone slopes stabilization

WLF2-0776  M. Balducci, L. Faralli, C. Olivanti and L. D. Venanti
The large Acqualoreto landslide (Umbria, Italy): stabilization projects through integrated use of innovative and consolidates techniques

WLF2-0344  Catherine Tatarniuk and Elisabeth Bowman
Case Study of a Road Embankment Failure Mitigated Using Deep Soil Mixing

WLF2-0719  Claudio Oggeri and Chiara Ronco
Design criteria of reinforced embankmens for rockfall protection on the base of Eurocodes and national technical law

WLF2-0613  Claudio Margottini
Low environmental impact consolidation works in the rock cliff of Civita di Bagnoregio (Central Italy)


**Friday 7 October**

**L03 - Wildfires and slope instability**

Conveners: Jerome De Graff, Susan Cannon, Pieter Van Lierop, Mario Parise

**Poster Area**

Display Time 08:00–18:00

**Author in Attendance:** 11:00-12:15

WLF2-0504  
Constantina Tsagari, Nikolaos Proutsos and George Karetos  
Quantified weather effect on wildfires in Greece

WLF2-0594  
Kerry Riley and Jennifer Pierce  
A 10,000 year record of fire activity and fire-related sedimentation in the Middle Fork Salmon River, Idaho, USA

**L07 - Landslide instrumentation and monitoring**

Conveners: Rajenda K. Bandari, Leonardo Cascini, Dario Peduto

**Poster Area**

Display Time 08:00–18:00

**Author in Attendance:** 11:00-12:15

WLF2-0469  
Roberta Prokešová, Alžbeta Medveďová and Zora Snopková  
Landslides and hydro-climatic conditions in the Hutná catchment area (Central Slovakia)

WLF2-0505  
Mateja Jemec, Magda Carman and Marko Komac  
Assessing of spatio-temporal factors influencing landslides using PSInSAR

WLF2-0307  
Gen Furuya, Tatsuo Katayama, Akira Suemine, Takayuki Kozato, Takahiro Watanabe and Hideaki Marui  
Application of the Frequency Domain Electromagnetic Method survey in a landslide area

WLF2-0708  
Biljana Abolmasov and Aleksandar Ristić  
Applying GPR and 2D ERT for characterization shallow landslides-a case study

WLF2-0264  
Hamza Reci, Ylber Muceku and Idriz Jata  
The Use of ERT for Investigation of Berzhita Landslide, Tirana Area, Albania

WLF2-0387  
Elisa Damiano, Daniele Giordan, Paolo Allasia, Marco Baldo, Nicola Sciarrà and Giorgio Lollino  
Multitemporal study of the San Martino Sulla Marrucina landslide (Central Italy)

WLF2-0470  
Biljana Abolmasov and Svetozar Milenkovic  
Landslide Umka – The First Automated Monitoring Project in Serbia

WLF2-0160  
Domenico Denora, Lia Romano and Giulia Cecaro  
Terrestrial laser scanning for the Montaguto landslide (Southern Italy)

WLF2-0242  
Ahmed Bennia, S.K. Srivastav and R.S Chatterjee  
Groundwater investigations using optical and microwave remote sensing data in Solani watershed, India

WLF2-0759  
Gianluca Marcato, Martina Stefani, Matteo Mantovani, Alessandro Pasuto, Volkmar Mair and Ludwig Noessin  
The Ganderberg Landslide (South Tyrol, Italy): mitigation of residual risk by real-time monitoring
WLF2-0213  Mirco Motta, Fabio Gabrieli, Alessandro Corsini, Vinicio Manzi and Francesco Ronchetti
Landslide displacement monitoring from multi-temporal terrestrial digital images. Case of the Valoria landslide site

WLF2-0164  Francesco Castelli and Valentina Lentini
Landsliding events triggered by rainfalls in the Enna area (South Italy)

WLF2-0234  Ksenia Fedotova, German Postoev and Andrey Kazeev
An experimental landslide monitoring on a project of Olympic building “Sochi-2014”

WLF2-0677  Gianfranco Marchi, Gianluca Benedetti, Michela Marchi and Guido Gottardi
Long-term monitoring and analysis of slow slope movements in the Northern Apennines

WLF2-0746  Jang, Kyoung-jun Male
The Behavior of Engineered Slope Under Variable Seepage Conditions in Sandy Soils

WLF2-0215  Nicholas Sabatakakis, Spyridon Lainas and Natalia Spanou
Inclinometer monitoring of extensive landslide zones affecting infrastructures. Case studies from Western Greece.

WLF2-0435  Željko Arbanas, Vedrana Vratonja, Petra Domlija and Martina Vivoda
Remedial works on the Smreče landslide, Croatia

WLF2-0481  Diego Di Martire, Massimo Ramondini and Domenico Calcattera
Landslide-related PS data interpretation by means of different techniques

WLF2-0376  Stefano Devoto, Emanuele Forte, Matteo Mantovani, Arianna Mocnik, Alessandro Pasuto, Daniela Piacentini and Mauro Soldati
Integrated monitoring of lateral spreading phenomena along the north-west coast of the Island of Malta

WLF2-0404  Caterina Di Maio, Roberto Vassallo, Margherita Vallario, Stefano Calcattera and Piera Gambino
Surface and deep displacements evaluated by GPS and inclinometers in a clayey slope

WLF2-0276  Loredana Antronico, Luigi Borrelli, Dario Peduto, Gianfranco Fornaro, Giovanni Gullà, Luca Paglia and Giovanni Zeni
Conventional and innovative techniques for the monitoring of displacements in landslide affected areas

WLF2-0753  Jose A. Palenzuela, Clemente Irigaray, Jorge D. Jiménez-perálvarez and José Chacón
Application of Terrestrial Laser Scanner to the assessment of the evolution of diachronic landslides

WLF2-0140  Vladimir Greif and Jan Vlcko
Application of the PS-InSAR technique for the post-failure landslide deformation monitoring at Lubietova site in Central Slovakia

WLF2-0305  Marcel Hürlimann, Claudia Abancó and Jose Moya
Experiences of debris-flow monitoring and warning at catchment scale in the Pyrenees

WLF2-0380  Juan Carlos García López-davalillo, Gerardo Herrera García, Davide Notti, Mario Hernández Ruiz, Jose Antonio Fernández Merodo, Inmaculada Álvarez Fernández and Celestino González Nicieza
InSAR data for mapping and monitoring of landslides in Tena Valley

WLF2-0767  Enzo Novello, Corrado Faletto and Paolo Tible
The case history of the Bagnaschino landslide, from Early Warning to site specific rainfall threshold

WLF2-0157  Svetozar Milenkovic, Branko Jelisavac and Vladeta Vujanic
Monitoring of the “Razanj” Landslide in Serbia
WLF2-0800  Hong Zhao
Landslide forecasting and early warning system

L23 - Landslides in coastal areas
Conveners: Vincenzo Liguori, Crescenzo Violante

Poster Area
Display Time 08:00–18:00
Author in Attendance: 09:00-10:30

WLF2-0569  Domenico Aringoli, Marcello Buccolini, Bernardino Gentili, Materazzi Marco, Gilberto Pambianchi and Nicola Sciarra
Large landslides in sea-cliff areas of the central Adriatic coast (Italy)

WLF2-0418  Sabina Porfido, Eliana Esposito, Flavia Molisso, Marco Sacchi and Crescenzo Violante
Flood historical data for flood risk estimation in coastal areas, Eastern Tyrrhenian Sea, Italy

WLF2-0529  Micla Pennetta and Elio Lo Russo
Landslides in sea cliffs along the Capri island coasts (Gulf of Naples, Italy)

L29 - Rapid landslide runout analysis
Conveners: Claudio Scavia, Marina Pirulli

Poster Area
Display Time 08:00–18:00
Author in Attendance: 11:00-12:15

WLF2-0547  Rosanna Sosio, Giovanni B. Crosta, Joanna H. Chen and Oldrich Hungr
Runout prediction of rock avalanches in volcanic and glacial terrains

WLF2-0773  Renato Eugenia De Lima
New approach to rapid risk evaluation in recent disasters related to landslides in Brazil

WLF2-0181  Aly Ahmed, Keizo Ugai, Fei Cai, Qingqing Yang and Masao Yamada
Model Experiments to Investigate the Mechanism of Rock Avalanches Induced by Earthquake

WLF2-0798  Tuba Zahra, Cees van Westen and Oguchi Takashi
Application of Numerical Modelling in Landslide Runout: A Review

WLF2-0684  Jose Cepeda, Manuel Diaz and Dolors Ferres
Post-triggering influence of intense precipitation on highly mobile landslides
INTERNATIONAL MEETINGS

Monday, 3 October 2011
GERMAN ROOM
08:00-9:30 6th Session of IPL-GPC

Tuesday, 4 October 2011
NIGERIA ROOM
09:30-12:00 IAEG - Italian Section - Meeting of Management Committee

Wednesday, 5 October 2011
INDIA ROOM
09:00-12:30 ICL Secretarial meeting
NIGERIA ROOM
08:30-13:30 PLANALP - 13th meeting
GERMAN ROOM
13:30-18:00 10th ICL-BOR
NIGERIA ROOM
14:30-17:30 JTC1: Natural Slopes and Landslides
ETHIOPIA ROOM
14:30-18:00 C.E.R.G. - General Assembly

SIDE EVENTS

Monday, 3 October 2011
IRAN ROOM
12:00-14:00 FAO-Food for the Cities multi-disciplinary initiative, “World Habitat Day 2011: Cities and Climate change”

Wednesday, 5 October 2011
MALAYSIA ROOM
09:00-12:30 EuroGeoSurveys The Geological Surveys of Europe
14:00-18:00 PanGeo Product Compilation Training Day

Friday, 7 October 2011
INDIA ROOM
09:00-12:30 Safeland Project
Short Courses

Tuesday, 4 October 2011

India Room
09:30-13:30  Studio Prof. MARCHETTI s.r.l.
The Seismic Dilatometer (SDMT) for detecting slip surfaces of landslides

India Room
14:30-16:00  NHAZCA
Cellular Automata modelling of landslides

Wednesday, 5 October 2011

India Room
14:30-18:00  ITT Visual Information Solution
Paola Filippi e Stefano Gagliano - Adding Image Analysis to Your Workflows

Iran Room
14:30-18:00  CSG srl & Leica Geosystems
From project to management of an integrated early warning system for landslides
Prof. G. Crosta - Landslide characterisation, risk assessment and mitigation countermeasures
L. H Blikra - The observational method: instrumental choices and objectives
M. Di Mauro - Project of a surface EW monitoring system
T. Rosset - Project of a geotechnical EW in place monitoring system
G. Mannucci, L. Dei Cas - Management, maintenance and contractual aspects
L. Blikra, S. Cardellini, A. Tamburini - Early Warning systems: the case histories of Aknes (Norway), Ancona (Italy) and “La Saxe” (Italy)
R. Supper, G. Moser, W. Gasperl, A. Corsini - From landslide characterisation to the classification of the site for Early Warning: the case histories of Gsifgraben (Austria) and the case of Emilia Romagna region (Italy)

Austria Room
14:30-18:00  Prati Armati S.r.l. - Contro la desertificazione e l’erosione dei suoli
Soil protection by natural long-lasting techniques: preventing erosion and contributing to maintenance of stabilized landslide

Philippines Room
15:00-16:00  CODEVINTEC
Latest - integrated - high precision technologies for Landslide monitoring

Thursday, 6 October 2011

India Room
11:00-13:00  NHAZCA
Landslide monitoring by Terrestrial SAR Interferometry: theory and practice
Closing Ceremony

14:30 – 16:00 Round table discussion: major achievements in WLF2
Moderator: Dr. Wolfgang EDER, Technical advisor of ICL
Discussion leader: Prof. Luciano PICARELLI, Joint Technical Committee on Landslides and Engineered slopes - JTC1
oppure Editorial Board of the journal Landslides

Panelists

Prof. Filippo CATANI, University of Florence
Prof. Jordi COROMINAS, Universitat Politècnica de Catalunya, Barcelona
Dr. Javier HERVAS, Joint Research Centre - European Commission
Dr. Ed HARP, USGS, USA
Dr. Lynn HIGHLAND, USGS, USA
Prof. Yoshinori IWASAKY, Geo-Research Institute, Osaka
Prof. Ken HO, Hong Kong Geotechnical Engineering Office
Dr. Thomas HOFER, Forestry Department, FAO
Dr. Dalia KIRSCHBAUM, NASA
Dr. Claudio MARGOTTINI, Chairperson of the Second World Landslide Forum
Prof. Paul MARINOS, National Technical University of Athens
Prof. Dave PETLEY, Durham University
Prof. Kyoji SASSA, Japan, Executive Director International Consortium on Landslides
Prof. Gabriele SCARASCIA MUGNOZZA, University La Sapienza, Rome
Prof. Alexander STROM, Institute of Geospheres Dynamics, Russian Academy of Sciences, Moscow
Prof. Jan VLCKO, Comenius University, Slovak Republic

16:00 - 16:30 Coffee Break
16:30 - 18:00 Closing ceremony

Moderators:
Prof. Paolo CANUTI, President of International Consortium on Landslides
Prof. Kyoji SASSA, Japan, Executive Director International Consortium on Landslides

Review of the first decade of ICL and IPL 2002-2012
and Toward the second decade of ICL and IPL 2012-2022
Supports to ICL and IPL from supporting organizations and governments
Introduction and certificates to five new ICL members
Introduction of officers of ICL in the next term
Best exhibition award
Invitation to Next Forum in Beijing 2014
Dr. Yueping YIN, China Geological Survey, Chair of WLF3
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IPL is a thematic platform on Landslides with UNISDR, promoting landslide research and capacity building for the benefit of society and the environment and including ICL, UNESCO, FAO, UNISDR, WMO, UNU, ICSU, WFEO, IUGS and many research and land management institutions.

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Secretariat
ISPRA, Italian Institute for Environmental Protection and Research
Contact: secretariat@wlf2.org - Website: www.wlf2.org

Press Office
Press Office: +39.0650072394
e-mail: stampa@isprambiente.it

Cristina Pacciani: +39.3290054756 (Press Officer in Chief)
Alessandra Lasco: +39.3476007309 (Italian Press)
Filippo Pala: +39.3469719807 (International Press)
Giuliana Bevilacqua: +39.3494216007 (Press Officer)


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