

PUTTING SCIENCE INTO PRACTICE



THE SECOND WORLD LANDSLIDE FORUM

Under the High Patronage of the President of the Italian Republic

Scientific Programme

**FAO Headquarters, Rome
3|9 october 2011**



INDEX

Open Ceremony	04
Special Lectures	05
Timetable Session Programme	06

Daily Oral Programme

MONDAY, 3 OCTOBER

L02 - Landslides, land-use systems and food security	08
L04 - Landslide inventory and susceptibility and hazard zoning	08
L11 - Landslides, transportation network and lifelines	09
L21 - Landslide education, training and capacity development	10
L22 - Submarine landslides and tsunami	11
L25 - Seismically induced landslides and seismic landslide hazard analysis	12

TUESDAY, 4 OCTOBER

L01 - Landslide scenarios accounting for the climatic, geomorphological and geotechnical context	13
L04 - Landslide inventory and susceptibility and hazard zoning	14
L07 - Landslide instrumentation and monitoring	15
L11 - Landslides, transportation network and lifelines	16
L20 - Integrated approach to landslide risk mitigation	17
L21 - Landslide education, training and capacity development	18
L22 - Submarine landslides and tsunami	18
L25 - Seismically induced landslides and seismic landslide hazard analysis	19
L26 - Landslides in cold regions	20

WEDNESDAY, 5 OCTOBER

L04 - Landslide inventory and susceptibility and hazard zoning	22
L06 - Landslides and extreme weather	22
L07 - Landslide instrumentation and monitoring	23
L13 - Landslides as sediment sources	24
L16 - Early warnings and emergency plans	24
L24 - Landslides and cultural heritage	25
L28 - Risk management in Multi-hazard environment	26

THURSDAY, 6 OCTOBER

L04 - Landslide inventory and susceptibility and hazard zoning	27
L07 - Landslide instrumentation and monitoring	28
L09 - Advances in slope stability modelling	30
L10 - Landslides and socio-economic impact: basic data and loss modelling	31
L12 - Landslides and reservoirs	31
L15 - Landslides and urban risk reduction	32
L29 - Rapid landslide runout analysis	33

FRIDAY, 7 OCTOBER

L03 - Wild fires and slope instability	35
L07 - Landslide instrumentation and monitoring	35
L08 - GIS applications developments	35
L09 - Advances in slope stability modelling	36
L14 - Landslides (and legislation), policies, cost benefit analysis and decision makers	37
L17 - Advanced technologies for landslide stabilisation	38
L23 - Landslides in coastal areas	38
 Keynote Speaker	39
Panelist	41

Daily Poster Programme**TUESDAY, 4 OCTOBER**

L11 - Landslides, transportation network and lifelines	43
L20 - Integrated approach to landslide risk mitigation	43
L21 - Landslide education, training and capacity development	44
L22 - Submarine landslides and tsunami	44
L25 - Seismically induced landslides and seismic landslide hazard analysis	44
L26 - Landslides in cold regions	45

WEDNESDAY, 5 OCTOBER

L01 - Landslide scenarios accounting for the climatic, geomorphological and geotechnical context	46
L04 - Landslide inventory and susceptibility and hazard zoning	47
L06 - Landslides and extreme weather	48
L13 - Landslide as sediment sources	49
L16 - Early warnings and emergency plans	49
L24 - Landslides and cultural heritage	49
L28 - Risk management in Multi-hazard environment	50

THURSDAY, 6 OCTOBER

L08 - GIS application developments	52
L09 - Advances in slope modelling	52
L10 - Landslides and Socio-economic Impact: Basic Data and Loss Modeling	53
L12 - Landslides and reservoirs	54
L14 - Landslides (and legislation), policies, cost benefit analysis and decision makers	55
L15 - Landslides and urban risk reduction	55
L17 - Advanced technologies for landslide stabilisation	56

FRIDAY, 7 OCTOBER

L03 - Wildfires and slope instability	57
L07 - Landslide instrumentation and monitoring	57
L23 - Landslides in coastal areas	59
L29 - Rapid landslide runout analysis	59
 Internal Meetings	60
Side Events	60
Short Courses	61
Closing Ceremony	62
Organisers	63
Exhibitors	69
Map of the area	70

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 ROUHBAN, 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. Irasema 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 Univesity, 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 ROUHBAN 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

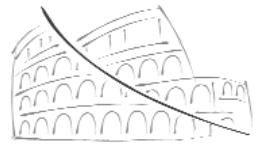
Director, Hydrogeology and Environmental Geology, China Geological Survey

Large infrastructures and environmental policies

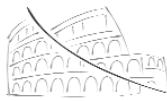
Green Room, 12:30-13:00

THE SECOND WORLD LANDSLIDE FORUM

Session Code	Parallel Session	Monday 03/10/2011		Tuesday 04/10/2011			
		Blocks		Blocks			
		1 14:30-16:00	2 16:30-18:00	1 9:00-10:30	2 11:00-12:15	3 14:30-16:00	16: 16:30-18:00
L01	Landslide scenarios accounting for the climatic, geomorphological and geotechnical context			Philippines Room	Philippines Room	Philippines Room	Philippines Room
L02	Landslides, land-use systems and food security	Philippines Room	Philippines Room				
L03	Wild fires and slope instability						
L04	Landslide inventory and susceptibility and hazard zoning	Green Room	Green Room	Green Room	Green Room	Green Room	Green Room
L06	Landslides and extreme weather						
L07	Landslide instrumentation and monitoring				Iran Room	Iran Room	Iran Room
L08	GIS applications developments						
L09	Advances in slope stability modelling						
L10	Landslides and socio-economic impact: basic data and loss modelling						
L11	Landslides, transportation network and lifelines	Iran Room	Iran Room	Iran Room	Poster Area		
L12	Landslides and reservoirs						
L13	Landslides as sediment sources						
L14	Landslides (and legislation), policies, cost benefit analysis and decision makers						
L15	Landslides and urban risk reduction						
L16	Early warnings and emergency plans						
L17	Advanced technologies for landslide stabilisation						
L20	Integrated approach to landslide risk mitigation			Poster Area	Ethiopia Room	Ethiopia Room	Ethiopia Room
L21	Landslide education, training and capacity development	German Room	German Room	German Room	Poster Area		
L22	Submarine landslides and tsunami	Ethiopia Room	Ethiopia Room	Ethiopia Room	Poster Area		
L23	Landslides in coastal areas						
L24	Landslides and cultural heritage						
L25	Seismically induced landslides and seismic landslide hazard analysis	Austria Room	Austria Room	Austria Room	Austria Room	Austria Room	Poster Area
L26	Landslides in cold regions			Poster area	German Room	German Room	German Room
L28	Risk management in Multi-hazard environment						
L29	Rapid landslide runout analysis						



11		Wednesday 05/10/2011				Thursday 06/10/2011				Friday 07/10/2011	
		Blocks			Blocks			Blocks			
	4	1	2	3	1	2	3	4	1	2	
6:00	16:30-18:00	9:00-10:30	11:00-13:00	14:30-16:00	9:00-10:30	11:00-12:15	14:30-16:00	16:30-18:00	9:00-10:30	11:00-12:15	
nes n	Philippines Room			Poster Area							
									Ethiopia Room	Poster Area	
oom	Green Room	Green Room	Poster Area		Green Room	Green Room	Green Room	Green Room			
			Ethiopia Room	Poster Area							
om	Iran Room	Iran Room	Iran Room		Iran Room	Iran Room	Iran Room	Iran Room	Green Room	Poster Area	
									German Room	German Room	
					Poster Area	Austria Room	Austria Room	Austria Room	Austria Room	Austria Room	
					Austria Room	Poster Area					
					German Room	German Room	German Room	Poster Area			
		Ethiopia Room		Poster Area							
									Poster Area	Iran Room	
					Philippines Room	Philippines Room	Philippines Room	Poster Area			
		Austria Room	Austria Room	Poster Area							
ia n	Ethiopia Room								Philippines Room	Philippines Room	
		German Room	German Room	Poster Area							
a n	Poster area										
an n	German Room										
		Philippines Room	Philippines Room	Poster Area							
					Ethiopia Room	Ethiopia Room	Ethiopia Room	Ethiopia Room		Poster Area	



DAILY ORAL PROGRAMME

MONDAY 3 OCTOBER

L02 - Landslides, land-use systems and food security

Convenors: Thomas Hofer

PHILIPPINES ROOM

14:30-14:45	Thomas Hofer <i>Introduction to the session and presentation of the background paper</i>
14:45-15:00	FAO Interdepartmental Working Group on disaster and risk management <i>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</i>
15:00-15:15	FAO Interdepartmental Working Group on disaster and risk management <i>Disaster and Risk Management Cycle put into practice</i>
15:15-15:30	Thomas Hofer, and Gérard Marquis <i>Importance of integrated watershed management in the context of rehabilitation plan, recovery and disaster risk reduction initiatives: the Pakistan example</i>
15:30-15:45	Yuri Gorokhovich , Shannon Doocy, Felix Walyawula, Andrew Muwanga, and Fernando Nardi <i>Landslides in Bududa, Eastern Uganda: preliminary assessment and proposed solutions</i>
15:45-16:00	Stephanie Jaquet , Karen Sudmeier-Rieux, Marc-Henri Derron and Michel Jaboyedoff <i>A Neglected Disaster: Landslides and Livelihoods in Central-Eastern Nepal</i>
16:00-16:30	Coffee break
16:30-16:45	Prakash Chandra Tiwari <i>Rainfall Variability, Landslides and Food Security in Himalaya</i>
16:45-17:00	Veerle Vanacker , and Vincent Balthazar <i>Anthropogenic Activity Triggering Landslides in Densely Populated Mountain Areas</i>
17:00-17:15	Inam Ur Rahim Inam <i>Upland Uses and Lowland Effects – Understanding the role of highland cultivation in Swat in the 2010 flood devastation in Northern Pakistan</i>
17:15-17:30	Phuntsho Gyeltshe , and Chencho Norbu <i>Strategies and options to address land degradation due to landslides, the Bhutanese scenarios</i>
17:30 - 18:00	<i>Discussion</i>

L04 - Landslide inventory and susceptibility and hazard zoning

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

GREEN ROOM

14:30-14:45	Hannah Evans , Catherine Pennington, Claire Foster <i>Mapping a nation's landslides: a novel multi-stage methodology</i>
-------------	--

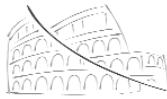
- 14:45-15:00 **Miet Van Den Eeckhaut**, Norman Kerle, Javier Hervás, Robert Supper
Mapping of landslides under dense vegetation cover using object-oriented analysis and LiDAR derivatives
- 15:00-15:15 Marius Tremblay, Karin Lundström, Victoria Svahn, **Charlotte Cederbom**, Göta Älv Working Group
Inventory of landslide risk to limit consequences of climate change
- 15:15-15:30 R.M.S. Bandara, **K.M. Weerasinghe**
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 **Seyedmahdi 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 Pieralice
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 Bhushan**, S. Sudhakar
Landslide Hazard Zonation using RS & GIS techniques-A case study from North East India

L11 – Landslides, transportation network and lifelines

Convenors: Jordi Corominas, Gian Paolo Giani, Tiziana Apuani

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, MarianKremer 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 Hürlmann
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 <i>Damages to transport facilities by rain fall Induced fandslides during November 2009 in Nilgiris, India</i>
15:45-16:00	<i>Discussion</i>
16:00-16:30	<i>Coffee break</i>
16:30-16:45	Franco Oboni, Claudio Angelino, and Bartolomeo Visconti <i>The Cassas Landslide and its impacts on an international & Olympic transportation corridor: studies, monitoring, solutions and crisis plans</i>
16:45-17:00	Marc Janeras, Joan Palau , Elisabet Prat, Judit Pons, Jordi Ripoll, Pere Martínez, and Josep Comellas <i>Preliminary assessment of rockfall risk mitigation in access infrastructures to Montserrat</i>
17:00-17:15	Alessandro Corsini, Francesco Ronchetti, Francesco Bonacini, Paolo Calicetti, Eleonora Bertaccini, Alessandro Capra, Cristina Castagnetti, Riccardo Rivola, Elena Piantelli, Giuseppe Caputo and Giovanni Truffelli <i>Large-scale slope instability affecting SS63 near the Cerreto Pass (northern Apennines, Italy)</i>
17:15-17:30	Gianluca Bianchi Fasani, Carlo Esposito, Luca Lenti, Salvatore Martino, Massimo Pecci and Gabriele Scarascia Mugnozza <i>Seismic analysis of the Gran Sasso catastrophic rockfall (Central Italy)</i>
17:30-17:45	Giuseppe Delmonaco, Fabio Garbin, Maria Marsella, Claudio Margottini, Alberico Sonnessa and Daniele Spizzichino <i>Laser scanning analysis and landslide risk assessment on transportation network: the Lugnano in Teverina (Umbria Region, Italy), landslide case study</i>
17:45-18:00	<i>Discussion</i>

L21 – Landslide education, training and capacity development

Conveners: Dwikorita Karnawati, Surya Prakash

GERMAN ROOM

14:30-14:50	Keynote Malcolm G Anderson <i>Landslide risk reduction in developing countries: Perceptions, successes and future risks for capacity building</i>
14:50-15:00	Malcolm G Anderson <i>Discussion on keynote lecture</i>
15:00-15:15	Dwikorita Karnawati, Wilopo Wahyu, Agung Setianto and Suharman Suharman <i>Student Community Service Program for Landslide Disaster Risk Reduction in Indonesia</i>
15:15-15:30	Dwikorita Karnawati, Teuku Faisal Fathani, Budi Andayani and Suharman Suharman <i>Strategic approach for improvement of community resilience in landslide prone area</i>
15:30-15:45	Hening Parlan <i>PASTI (Preparedness Assesment Tools for Indonesia): Diagnost Tools Preparedness Disaster for Indonesia</i>
15:45-16:00	Alessandro Petrone and Federico Preti <i>Soil bioengineering measures in Latin America: authochthonal cuttings suitability</i>
16:00-16:30	<i>Coffee break</i>

16:30-16:45	Motoyama Eriko , and Abdullah Che Hassandi <i>Landslide Public Awareness and Education Programs in Malaysia</i>
16:45-17:00	Baolin Wang, Mario Ruel, Réjean Couture, Doug Vandine, Peter Bobrowsky and Andrée Blais-stevens <i>Current status of landslide guidelines around the world</i>
17:00-17:15	Elizabeth Holcombe and Malcolm Anderson <i>Learning by doing: Community based landslide risk reduction</i>
17:15-17:30	Jog Singh Bhatia <i>Landslide awareness, preparedness and response management in India</i>
17:30-17:45	Wolfgang Eder <i>Improving Public Outreach on Landslide Related Risk - Cooperation with the Planet Earth Institute</i>
17:45-18:00	<i>Discussion</i>

L22 – Submarine landslides and tsunami

Convenors: Jacques Locat, Roger Urgeles, Paolo Mazzanti

ETHIOPIA ROOM

14:30-15:00	Keynote Maarten Vanneste (Farrokh Nadim) <i>Submarine landslides and their consequences: What do we know, what can we do?</i>
15:00-15:15	Roger Urgeles , Angelo Camerlenghi and Francesc Palmer <i>Slope failures in the continental margins of the Western Mediterranean Sea: Towards understanding of environmental and geologic controls and tsunamigenic potential.</i>
15:15-15:30	Krastel Sebastian , Winkelmann Daniel, Hanebuth Till, Strasser Michi, Wynn Russell B., and Georgioupolou Aggeliki <i>Mass wasting along Atlantic passive continental margins: a comparison between NW-Africa and the de la Plata River region (northern Argentina and Uruguay)</i>
15:30-15:45	Louise Hansen , Jean Sébastien L'Heureux, Oddvar Longva and Raymond S. Eilersten <i>Mapping of subaqueous landforms for near-shore landslide susceptibility assessment along Norwegian fjords</i>
15:45-16:00	Jean Sébastien Lheureux , Louise Hansen, Oddvar Longva and Raymond S. Eilersten <i>Landslides along Norwegian fjords: causes and hazard assessment</i>
16:00-16:30	Coffee break
16:30-16:45	Mercedes Ferrer , Luis I. Gonzalez de Vallejo , and Julia Seisdedos <i>Güímar and La Orotava mega-landslides (Tenerife) and tsunamis deposits in Canary Islands</i>
16:45-17:00	Paolo Mazzanti , Fabio Vittorio De Blasio <i>The dynamics of subaqueous rock avalanches: the role of dynamic fragmentation</i>
17:00-17:15	Fabio De Blasio <i>Dynamics, velocity and run-out of subaqueous rock avalanches</i>



17:15-17:30	Salvatore di Gregorio , Maria Vittoria Avolio , Valeria Lupiano, Paolo Mazzanti, Francesca Bozzano <i>Simulation of submarine landslides by Cellular Automata methodology</i>
17:30-17:45	Fawu Wang , Tomokazu Sonoyama, and Mitsuki Honda <i>Model test on the impacts of submarine landslides to pipelines</i>
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 <i>Reconstruction of a submarine landslide and related tsunami from morpho-bathymetry and sub-bottom data on the Ionian Calabrian margin (Mediterranean Sea)</i>

L25 – Seismically induced landslides and seismic landslide hazard analysis

Convenors: Ed Harp, Hideaki Marui, Luca Guerrieri

AUSTRIA ROOM

14:30-15:00	Keynote Edwin Harp and Randall Jibson <i>The Effect of Complex Fault Rupture in the Distribution of Landslides Triggered by the 12 January 2010, Haiti Earthquake</i>
15:00-15:15	Vincenzo Del Gaudio , Janusz Wasowski, and Chyi - Tyi Lee <i>Inferring seismic response of landslide-prone slopes from microtremor study</i>
15:15-15:30	Roberto W. Romeo , Milena Mari, Giulio Pappafico, Pierpaolo Tiberi, Umberto Gori, Francesco Veneri, Gianluigi Tonelli and Carmela Paletta <i>Hazard and risk scenarios of landslides triggered by earthquakes</i>
15:30-15:45	Surya Parkash Gupta <i>Earthquake Related Landslides in Indian Himalaya: Experiences from the past and Implications for the future</i>
15:45-16:00	Ignacio García Flórez , Meaza Tsige Aga, Ramón Capote Del Villar and Rosa Mateos <i>Geological and structural control of earthquake-induced landslides in El Salvador</i>
16:00-16:30	Coffee break
16:30-16:45	Lynn Highland and Ping Sun <i>Environmental Effects of the Landslides Caused by the 12 May 2008, Wenchuan, China Earthquake</i>
16:45-17:00	Xuanmei Fan , Cees J. Van Westen, Qiang Xu, Tolga Gorum, Runqiu Huang and Fuchu Dai <i>Spatial Distribution of Landslide Dams Triggered by the 2008 Wenchuan Earthquake</i>
17:00-17:15	Carolina Sigaran Loria , Jan D. Nieuwenhuis, and Robert Hack <i>Seismic slope performance: Comparison of FEM results to displacement-based methods</i>
17:15-17:30	J. R. Grasso <i>Early response to earthquake landslide interactions in mountain area: fast identification of earthquake-induced landslide prone area using early aftershocks</i>
17:30-17:45	Jianguo Liu , Philippa Mason, Eric Yu, Meng-Che Wu, Chuan Tang, Runqiu Huang and Hanhu Liu <i>Earthquake damage zone GIS modelling: a modulation between co-seismic deformation and landslide susceptibility</i>
17:45-18:00	Discussion

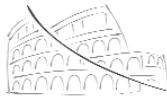
TUESDAY 4 OCTOBER

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

Convenors: 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, Kaspar Merz, Isabelle Gärtner-Roer, Linda Seward
Panel - Rock glacier degradation and instabilities in the European Alps: a characterisation and monitoring experiment in the Turtmannatal, 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)
- 15:30-15:45 **L. Comegna**, P. Tommasi, L. Picarelli, E. Bucchignani and P. Mercogliano
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 Guerricchio, **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 <i>Pore pressure fluctuations within quasi-stable slopes in south-western Estonia and accompanying influence to the slope stability</i>
17:00-17:15	Giovanni Bertolini <i>Large reactivated earth flows in the Northern Apennines</i>
17:15-18:00	<i>Discussion and short poster presentations</i>

LO4 - Landslide inventory and susceptibility and hazard zoning

Convenors: 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 <i>Advance in the mapping of the 1717 AD Triolet rock avalanche deposit (Mont Blanc massif, Italy) using cosmogenic exposure dating</i>
09:15-09:30	Jérôme Lopez Saez , Christophe Corona, Frédéric Berger <i>Probability maps of landslide reactivation derived from tree-ring records</i>
09:30-09:45	Khamarrul Azahari Razak , Alexander Bucksch, Michiel Damen, Cees van Westen, Menno Straatsma, Steven De Jong <i>Characterizing tree growth anomaly induced by landslides using LiDAR</i>
09:45-10:00	Miet Van Den Eeckhaut, Javier Hervás , Luca Montanarella <i>Landslide databases in Europe: analysis and recommendations for interoperability and harmonisation</i>
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 <i>Systematic mapping of large unstable rock slopes in Norway</i>
10:15-10:30	Snježana Mihalić , Hideaki Marui, Osamu Nagai <i>Landslide Inventory in the area of Zagreb City: Effectiveness of Using LiDAR DEM</i>
10:30-11:00	Coffee break
11:00-11:30	Keynote Cees van Westen , Saibal Ghosh, Pankaj Jaiswal, Tapas Ranjan Martha, Sekhar Lukose Kuriakose <i>From landslide inventories to landslide risk assessment; an attempt to support methodological development in India</i>
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 <i>Landslide susceptibility mapping at national scale: the Italian case study</i>
11:45-12:00	Daniel Tobler , Hans Rudolf Keusen <i>Hazard zoning in areas with major deep-seated landslides - Case study from Switzerland</i>
12:00-12:15	Carlo Esposito , Carla Iadanza, Gabriele Scarascia Mugnozza, Alessandro Trigila <i>Susceptibility assessment of shallow landslides in Giampilieri (North-East Sicily, Italy)</i>
13:00-14:30	Lunch break

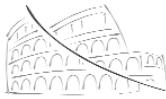
- 14:30-14:45 **Jean-Philippe Malet**, Anne Puissant, Alexandre Mathieu,
Miet Van Den Eeckhaut, Mathieu Fressard
*Integrating spatial multi-criteria evaluation and expert knowledge for country-scale
landslide susceptibility analysis: application to France*
- 14:45-15:00 Andreas Günther, **Miet Van Den 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 Santangelo, Federica Fiorucci, Mauro Cardinali,
Mauro Rossi and Fausto Guzzetti
A GIS method for obtaining geologic bedding attitude
- 17:00-17:15 **Gerlinde Posch-Troezmüller**, 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 Bhattacharai**, Ananta Man Singh Pradhan
A case study on landslide hazard mapping in Changunarayan VDC, Nepal

L07 - Landslide instrumentation and monitoring

Convenors: Rajendra 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



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

L11 - Landslides, transportation network and lifelines

Convenors: Jordi Corominas, Gian Paolo Giani, Tiziana Apuan

IRAN ROOM

09:00-09:15	Francesca Bozzano , Ivan Cipriani , Salvatore Martino, Paolo Mazzanti and Alberto Prestininzi <i>Forecasting methods for landslides interacting with infrastructures</i>
-------------	---

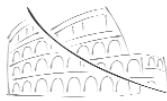
09:15-09:30	Gianfranco Marchi, Giorgio Giacchetti, Gianluca Benedetti and Alberto Landuzzi <i>The Scascoli case study: design and safety measures for a landslide area</i>
09:30-09:45	G. Scarpelli, D. Segato , E. Sakellariadi, A. Vita, P. Ruggeri and V.M.E. Fruzzetti <i>Slope instability problems in Jonica highway construction</i>
09:45-10:00	Michele Nappi , Paolo Budetta, Gerardo Lombardi and Enzo Minotta <i>Rockfall run-out estimate comparing empirical and trajectographic approaches</i>
10:00-10:30	<i>Discussion</i>

L20 - Integrated approach to landslide risk mitigation

Convenors: Josè Cepeda, Lino Versace

ETHIOPIA Room

11:00-11:15	Raffaele Albano, Stefania Pascale, Francesco Sdao and Aurelia Sole <i>A GIS model for systemic vulnerability assessment in urbanized areas supporting the landslide risk management</i>
11:15-11:30	Giovan Battista Chirico, Andrea Dani, Federico Preti and Massimiliano Schwarz <i>Coupling root reinforcement and subsurface flow modeling in shallow landslides triggering assessment</i>
11:30-11:45	Giovanna Capparelli, Massimiliano Giorgio and Roberto Greco <i>Shallow landslides risk mitigation by early warning: the Sarno case</i>
11:45-12:00	M. Cristina Rulli and Renzo Rosso <i>Modeling of forest roads impact on shallow landslides triggering</i>
12:00-12:15	<i>Discussion and short poster presentations</i>
13:00-14:30	<i>Lunch break</i>
14:30-14:45	Diego Arosio, Davide Brambilla , Laura Longoni <i>New investigations to update the model of the Premana (LC) landslide</i>
14:45-15:00	Sergey Morozov and Valeriy Tishin <i>Comprehensive program of landslide protection of the Ulianovsk City and its vicinities</i>
15:00-15:15	Ahmad Shukri Yahaya , Fauziah Ahmad and Wan Nur Aishah Meor Hussein <i>Environmental Risk Assessment on a Hill Site Development in Penang Malaysia</i>
15:15-15:30	Daniele Peila, Stefano Lo Russo and Claudia Mignelli <i>Analysis of risk induced by rockfall on roads</i>
15:30-15:45	Alessandro Corsini, Francesco Ronchetti, Jean Pascal Iannaccone , Volkmar Mair, Ludwig Nossing, Martina Stefani, Günther Unterthiner and Giorgio Valentiniotti <i>Hot spots for simplified risk scenarios of the Trafoi rockslide (South Tyrol)</i>
15:45-16:00	<i>Discussion and short poster presentations</i>
16:00-16:30	<i>Coffee break</i>
16:30-16:45	Muhibuddin Usamah and N.m.s.i Arambepola <i>Lessons-learned from the 2006 Flashfloods and Landslide in Uttaradit and Sukhotai Provinces, Thailand: Implication for Effective Landslide Disaster Risk Management in Thailand</i>



16:45-17:00	Maria Vittoria Avolio, Donato D'Ambrosio, Gino Mirocle Crisci, Federica Lucà, Valeria Lupiano, Gaetano Robustelli, Rocco Rongo and William Spataro <i>High detailed debris flows hazard maps by a cellular automata approach</i>
17:00-17:15	Pasquale Versace , Giovanna Capparelli <i>On verification of forecasting capability of the FlaIR regional model in landslide early warning</i>
17:15-17:30	Linda Bye and Mark Pelling <i>The Cultures of Landslide Risk Management</i>
17:30-18:00	<i>Discussion and short poster presentations</i>

L21 – Landslide education, training and capacity development

Convenors: Dwikorita Karnawati, Surya Prakash

GERMAN ROOM

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

L22 - Submarine landslides and tsunami

Convenors: Jacques Locat, Roger Urgeles, Paolo Mazzanti

ETHIOPIA ROOM

09:00-09:15	Sylfest Glimsdal , Jean-Sébastien L'Heureux, Carl B. Harbitz, Geir K. Pedersen <i>Modelling of the 1888 landslide tsunami, Trondheim, Norway</i>
09:15-09:30	Nicholas George , Duncan Mallace, Jody M. Webster, Robin Beaman and Liz Abbey <i>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</i>
09:30-09:45	Sara Lafuerza , Nabil Sultan, Miquel Canals, Galderic Lastras, Sergio Costa, Antonio Cattaneo and Jaume Frigola <i>The role of gas in triggering the Ana slide, Eivissa Channel, Western Mediterranean Sea</i>
09:45-10:00	Attilio Sulli , Mauro Agate, Claudio Lo Iacono, Valeria Lo Presti, Valentina Pennino and Sabrina Polizzi <i>Submarine Slope Failures along the Northern Sicilian Continental Margin (Southern Tyrrhenian Sea) and Possible Implications for Geo-hazard</i>
10:00-10:30	<i>Discussion</i>

L25 - Seismically induced landslides and seismic landslide hazard analysis

Convenors: 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 Miccadel, Tommaso Piacentini, Nicola Sciarra 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 landslides 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 <i>Modern seismogenic landslides caused by the Pamir - Hindu Kush earthquakes and their consequences in Central Asia</i>
15:45-16:00	Vahid Bagheri, Mohammadreza Mahdavifar and S.M. Fatemi Aghda <i>Seismic Landslides Hazard Zonation in Iran, Ardebil</i>
16:00-16:30	Coffee break
16:30-16:45	Discussion

L26 - Landslides in cold regions

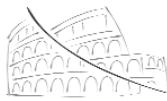
Convenors: Marten Geertsema, Marta Chiarle, Wei Shan

GERMAN ROOM

11:00-11:30	Keynote Stephan Gruber <i>Landslides in cold regions: making a science that can be put into practice</i>
11:30-11:45	Mauri McSaveney and Chris Massey <i>Did radiative cooling trigger New Zealand's 2007 Young River landslide?</i>
11:45-12:00	Christian Huggel , Simon Allen, John J. Clague, Luzia Fischer, Oliver Korup and Demian Schneider <i>Detecting potential climate signals in large slope failures in cold mountain regions</i>
12:00-12:15	Discussion
13:00-14:30	Coffee break
14:30-14:45	Wei Shan , Hua Jiang, Gaohang Cui, Zhaoquang Hu, Chunjiao Wang and Ying Guo <i>Landslides Characteristic of Northwest Lesser Khingan Range China</i>
14:45-15:00	Ying Guo , Wei Shan, Chengcheng Zhang, Hua Jiang and Yuying Sun <i>Landslide and Moisture-temperature for Cutting Slope Soil in Freeze-thaw Cycles</i>
15:00-15:15	Svetlana Evgrafova, Oxana Masyagina , Stanislav Prokushkin and Anatolii Prokushkin <i>Soil sliding in continuous permafrost terrain of Siberia: the case study of soil respiration and soil microbial activity dynamics during ecosystem re-establishment</i>
15:15-15:30	Demian Schneider , Roland Kaitna, William E. Dietrich, Leslie Hsu, Christian Huggel and Brian Mcardell <i>Rock-ice avalanche investigations by means of vertically rotating drum experiments</i>
15:30-15:45	M. Cristina Rulli , Federica Gobattoni and Monia Santini <i>GALLIUS: GeomorphologicAL model for Landslide Initiation under Snowmelting condition</i>
15:45-16:00	Domenico Aringoli , Bernardino Gentili, Marco Materazzi, Gilberto Pambianchi and Nicola Sciarra <i>DSGSDs induced by post-glacial decompression in central Apennine (Italy)</i>
16:00-16:30	Coffee break
16:30-16:45	Marco Giardino , Luigi Perotti, Marco Bacenetti and Paolo Zamparutti <i>Climatic and structural controls to slope instabilities in Val Veny (Italy)</i>
16:45-17:00	Ludovic Ravanel and Philip Deline <i>Permafrost and destabilization of alpine rockwalls: a very close link in the Mont Blanc massif</i>

- 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

DAILY ORAL PROGRAMME • L26 • TUESDAY 4 OCTOBER



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
<i>Landslide susceptibility, hazard and risk mapping in Mailuu-Suu, Kyrgyzstan</i> |
| 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
<i>Landslides along the north-west coast of the Island of Malta</i> |
| 09:30-09:45 | Gabriel Legorreta Paulin , Marcus Bursik, María Teresa Ramírez Herrera, José Lugo Hubp, José Juan Zamorano Orozco, Irasema Alcántara Ayala
<i>Landslide inventory and susceptibility mapping in a Mexican stratovolcano</i> |
| 09:45-10:00 | Lieven Claessens , Mary Kitutu, Jean Poesen, Jozef Deckers
<i>Landslide hazard assessment on the Ugandan footslopes of Mount Elgon: the worst is yet to come</i> |
| 10:00-10:15 | Jose Cepeda , Unni Eidsvig, Bjorn Vidar Vangelsten, Farrokh Nadim, Bjorn Kalsnes
<i>A method for integrating time-uncertainty associated to landslide inventories in threshold assessments</i> |
| 10:15-10:30 | Teresa Mrozek , Antoni Wojcik, Ziemowit Zimnal and Dariusz Grabowski
<i>Landslide inventory at 1:10000 scale in Poland - benefits and dilemmas of a national project</i> |

L06 - Landslides and extreme weather

Conveners: Hiroshi Fukuoka, Gabriele Scarascia Mugnozza

ETHIOPIA ROOM

- | | |
|-------------|---|
| 11:00-11:15 | Udeni P. Nawagamuwa
<i>Recommending regional rainfall threshold values for early warning of landslides in the Asian Region</i> |
| 11:15-11:30 | Samuele Segoni , Alessandro Battistini, Ascanio Rosi, Guglielmo Rossi and Filippo Catani
<i>A regional real time landslide warning system based on spatially variable rainfall thresholds</i> |
| 11:30-11:45 | Lorella Montrasio, Roberto Valentino , Gianluca Losi, Angela Corina, Lauro Rossi and Roberto Rudari
<i>Spatiotemporal hazard assessment of rainfall-induced shallow landslides</i> |
| 11:45-12:00 | David Johnny Peres and Antonino Cancelliere
<i>Defining rainfall thresholds for early warning of rainfall-triggered landslides: the case of North-East Sicily</i> |
| 12:00-12:15 | André Avelar , Ana Luiza Coelho-Netto and Willy Lacerda
<i>Mechanism of the recent catastrophic landslides in the mountainous range of Rio de Janeiro, Brazil</i> |

- 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

Convenors: 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 multiplet-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 Giordan**, 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-jer 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

Convenors: Giovanni Crosta, Matjaz Mikos, Ziaoddin Shoaei

ETHIOPIA ROOM

- | | |
|-------------|--|
| 09:00-09:15 | Jose Cepeda , Jenni Barclay and Graziella Devoli
<i>A conceptual framework for sediment-supply dependent rainfall thresholds</i> |
| 09:15-09:30 | Emrah Hakkı Erdogan , Javier Hervás, Miet Van Den Eeckhaut, Alessandro Pasuto and Gianluca Marcato
<i>Assessment of Soil Erosion in Areas Affected by Landslides</i> |
| 09:30-09:45 | Alessandro Simoni , Vincenzo Picotti, Alessio Ponza and Matteo Berti
<i>Landslide-related sediment yield rate in a large apenninic catchment</i> |
| 09:45-10:00 | Francesco Brardinoni , Giovanni Crosta, Stefano Lamonaca, Lidia Peretti, Davide Elli and Elena Valbusci
<i>Landslide mobility and landslide sediment transfer in Val di Sole, eastern Central Alps</i> |
| 10:00-10:15 | Marco Giardino , Dan Shugar Short poster presentation
<i>A quantitative assessment of the sedimentology and geomorphology of rock avalanche deposits</i> |
| 10:15-10:30 | <i>Discussion</i> |

L16 - Early warnings and emergency plans

Convenors: Nicola Casagli, Yin Yuepin

AUSTRIA ROOM

- | | |
|-------------|---|
| 09:00-09:15 | Sara Maria Ratto , Hervé Stevenin, Evelyne Navillod and Marco Cauduro
<i>Operational procedure for hydrogeological warning system in Aosta Valley</i> |
| 09:15-09:30 | Gianluca Martelloni , Samuele Segoni, Riccardo Fanti and Filippo Catani
<i>An operational warning system for the forecasting of landslide occurrence at regional scale</i> |
| 09:30-09:45 | Diana Salciarini , Claudio Tamagnini, Francesco Ponziani and Nicola Berni
<i>Defining physically-based rainfall thresholds for early warning systems</i> |
| 09:45-10:00 | Suhaimi Jamaludin , Faisal Hj Ali
<i>Overview of Some Empirical Methods to Correlate Rainfall and Shallow Landslide and Applications in Malaysia</i> |
| 10:00-10:15 | Francesco Ponziani , Nicola Berni, Marco Stelluti, Renato Zauri, Luca Brocca, Tommaso Moramarco, Diana Salciarini, Claudio Tamagnini
<i>Landwarn: an operative early warning system for landslides forecasting based on rainfall thresholds and soil moisture</i> |
| 10:15-10:30 | Deepak Raj Bhat , Netra Prakash Bhandary, Ryuichi Yatabe
<i>Method of Residual-state creep test to understand the creeping behavior of landslide soils</i> |
| 10:30-11:00 | <i>Coffee break</i> |
| 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
<i>Integration of technological development and civil protection activities during a landslide emergency phase</i> |

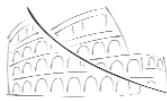
11:15-11:30	N.M.S.I Arambepola <i>Examples of Cost Effective Practices for Landslide Monitoring for Early Warning in Developing Countries of Asia</i>
11:30-11:45	Bigarré Pascal , Klein Emmanuelle, Gueniffey Yves, Verdel Thierry <i>Cloud monitoring: an innovative approach for the prevention of landslide risks</i>
11:45-12:00	Ikuo Towhata , Taro Uchimura, Ling Wang, Jianping Qiao <i>Validation and Interpretation of Monitored Behavior of Slopes Vulnerable to Failure</i>
12:00-12:15	Deodato Tapete , Nicola Casagli, Riccardo Fanti <i>Radar interferometry for early stage warning on monuments at risk</i>
12:15-12:30	Giuseppe Basile , Marinella Panebianco <i>Experimental alert model for hydrogeological risk: a case study in Sicily</i>
12:30-12:45	N.M.S.I Arambepola <i>An Appraisal on Ongoing Practices for Landslide Early Warning Systems in Selected South and East Asian Countries</i>
12:45-13:00	<i>Discussion</i>

L24 - Landslides and cultural heritage

Convenors: Paolo Canuti, Yoshinori Iwasaki, Daniele Spizzichino

GERMAN ROOM

09:00-09:30	Keynote Claudio Margottini <i>Cultural Heritage in landslide areas: between adaptation and mitigation</i>
09:30-09:45	Vladimir Greif and Tomas Drotar <i>Static and pseudo static stability analysis of the medieval castle rock slopes in Slovakia</i>
09:45-10:00	Gianluca Benedetti , Matteo Bernardi, Lisa Borgatti, Francesca Continelli, Monica Ghirotti, Cristiano Guerra, Alberto Landuzzi, Claudio Corrado Lucente and Gianfranco Marchi <i>San Leo: ten centuries of coexistence with landslides</i>
10:00-10:15	Alberto Bretschneider , Gianluca Bianchi Fasani, Emiliano Di Luzio and Marco Tavani <i>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</i>
10:15-10:30	Riccardo Fanti , Giovanni Gigli, Deodato Tapete, Francesco Mugnai and Nicola Casagli <i>Monitoring and modelling slope instability in cultural heritage sites</i>
10:30-11:00	Coffee break
11:00-11:15	Giuseppe Delmonaco , Claudio Margottini and Daniele Spizzichino <i>Rock-fall hazard assessment in the Siq of Petra, Jordan</i>
11:15-11:30	Deodato Tapete , Edward Bromhead, Maia Ibsen and Nicola Casagli <i>Coastal erosion and landsliding impact on historic sites in SE Britain</i>
11:15-11:45	Francesca Cigna , Vincenzo Liguori, Chiara Del Ventisette and Nicola Casagli <i>Landslide impacts on Agrigento's Cathedral imaged with radar interferometry</i>
11:45-12:00	Alessandro Trigila, Carlo Cacace, Carla Iadanza , Sara Delconte, Daniele Spizzichino and Stefano Cespa <i>Cultural heritage, landslide risk and remote sensing in Italy</i>



- 12:00-12:15 **Luca Falconi**, Pablo Meza Aretegui, 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 Perù)
- 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

Convenors: 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 Dessì**, 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, Sébastien 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*

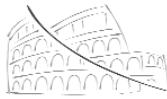
THURSDAY 6 OCTOBER

L04 - Landslide inventory and susceptibility and hazard zoning

Convenors: 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 PSInSAR™ and SqueezSAR™ techniques for updating landslide inventories
- 09:30-09:45 **Francesca Ardizzone**, Federica Fiorucci, Michele Santangelo, Mauro Cardinali, 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 Ercanoğlu
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 <i>Landslide processes and susceptibility mapping in NE Sicily, Italy</i>
15:45-16:00	Milos Marjanovic <i>Comparing the performance of different landslide susceptibility models in ROC space</i>
16:00-16:30	Coffee break
16:30-16:45	Maria Ferentinou, Christos Chalkias <i>Mapping mass movement susceptibility across Greece with GIS, ANN and statistical methods</i>
16:45-17:00	Paraskevas Tsangaratos, Ioanna Ilia, Dimitrios Rozos <i>Case Event System for landslide susceptibility analysis</i>
17:00-17:15	K. Kumaraswamy <i>Geoinformatics for landslide vulnerability zonation mapping in the Nilgiris Mountain, Tamil Nadu, India</i>
17:15-17:30	Manita Timilsina, Netra Prakash Bhandary, Ryuichi Yatabe <i>A simplified approach towards mapping of large-scale landslide potential areas in difficult mountainous terrains of Nepal</i>
17:30-17:45	Jusong Shi <i>Large scale deep-seated loess slide investigation and mechanism study at the edge of loess plateau of Baoji city, Shaanxi province, China</i>
17:45-18:00	Session wrap-up

LO7 - Landslide instrumentation and monitoring

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

IRAN ROOM

09:00-09:15	Travelletti Julien, Delacourt Christophe, Allemand Pascal and Malet Jean-Philippe <i>Performance of image correlation techniques for landslide displacement monitoring</i>
09:15-09:30	Andre Stumpf, Uwe Niethammer, Sabrina Rothmund, Alexandre Mathieu, Jean - Philippe Malet, Norman Kerle and Manfred Joswig <i>Advanced image analysis for automated mapping of landslide surface fissures</i>
09:30-09:45	Janusz Wasowski, Caterina Lamanna, Giuseppe Gigante, Domenico Casarano and Pierpaolo Limoni <i>Satellite remote sensing and borehole monitoring of landslides in Daunia</i>
09:45-10:00	Misganu Debella - Gilo and Andreas Kääb <i>Monitoring slow-moving landslides using spatially adaptive least squares image matching</i>
10:00-10:15	Gianfranco Fornaro, Davide O. Nitti, Raffaele Nutricato, Fabio Bovenga, Dario Peduto and Leonardo Cascini <i>Methodological and Technological Advances in the Application of Spaceborne DInSAR for Landslide Monitoring</i>
10:15-10:30	Vern Singhroy, Francois Charbonneau, Kevin Murnaghan and Rejean Couture <i>High resolution InSAR monitoring of Coastal Landslides</i>
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 <i>C/X-band SAR interferometry used to monitor slope instability in Daunia, Italy</i>

- 11:15-11:30 **Sandro Moretti**, Francesca Cigna, Federico Raspini, Geraint Cooksley, Marie-josée Banwell and Hugo Raetzo
Use of Persistent Scatterer InSAR within Terra firma 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 SqueezSARTM 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 Pizzoli, 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 Garcia 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*



L09 - Advances in slope stability modelling

Convenors: 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

Convenors: 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 María Mateos**, Inmaculada García, 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

Convenors: 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 Ischuk 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 Mckillip, 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



11:45-12:00	Nanda Wipula Bandara Balasooriya <i>Investigation of Landslides in Environmental Impact Assessment</i>
12:00-12:15	<i>Discussion</i>
13:00-14:30	<i>Lunch break</i>
14:30-14:45	Paolo Paronuzzi and Elia Rigo <i>A coupled seepage-stability model to analyze the Vajont reservoir influence</i>
14:45-15:00	Paolo Paronuzzi and Alberto Bolla <i>A new interpretation of the geotechnical context of the Vajont rockslide</i>
15:00-15:15	Ferdinando Totani, Gianfranco Totani and Sara Amoroso <i>Triggering mechanism and kinematics of Vajont landslide</i>
15:15-15:30	Michele Calvello , Francesco Silvestri and Dario Andreotti <i>Inverse analysis of an active landslide along the banks of a reservoir</i>
15:30-15:45	Augusto Desideri , Enzo Fontanella and Luca Pagano <i>Pore water pressure distribution for use in stability analyses of earth dams</i>
15:45-16:00	Fawu Wang, Zhitao Huo, Yueping Yin, Gonghui Wang and Kimie Sugiura, Li Xianochun <i>Landsliding caused by water level variation in China Three Gorges Reservoir</i>
16:00-16:30	<i>Coffee break</i>
16:30-16:45	<i>Discussion</i>

L15 - Landslides and urban risk reduction

Convenors: Domenico Calcaterra, C.F. Lee

PHILIPPINES ROOM

09:00-09:30	Keynote Ken Ho <i>Managing the uncertainties of natural terrain landslides and extreme rainfall in Hong Kong</i>
09:30-09:45	Ana Luiza Coelho Netto , A. Mululo Sato, A. de Souza Avelar, L.G.G. Vianna, I.S. Araújo, D.L.C. Ferreira, P.H. Lima, A.P.A. Silva, R.P. Silva <i>January 2011: the extreme landslide disaster in Brazil</i>
09:45-10:00	Andrea M. Degnanutti , Pia R. Tecca <i>The case study of Cancia (Dolomites, Italy), a mountain village threatened by a debris flow</i>
10:00-10:15	Mutluhan Akin , Tamer Topal, Muge K. Akin <i>Evaluation of the Rockfall Potential of Kastamonu Castle Using 3-D Analysis</i>
10:15-10:30	Davide Murgese , Dario Fontan, Marina Pirulli, Claudio Scavia, Paolo Oria <i>Debris-flow risk assessment and land management at municipal scale</i>
10:30-11:00	<i>Coffee break</i>
11:00-11:15	Claudio Puglisi , Danilo Campolo, Luca Falconi, Gabriele Leoni, Silvia Lumaca <i>Landslide hazard assessment project in the Messina municipality area (Sicily, Italy)</i>
11:15-11:30	Abdul Rahman Pandi , Suhaimi Jamaludin <i>Minimising losses due to landslides</i>
11:30-11:45	Marco Amanti , Valerio Vitale and Alessandro Troccoli <i>Landslides in the Ethernal city. Case studies from the past</i>

11:45-12:00	Eduardo Soares De Macedo , Kátia Canil, Fabiana Checchinato Silva, Fabricio Araujo Mirandola, Marcelo Fischer Gramani, Agostinho Tadashi Ogura and Alessandra Cristina Corsi <i>Methodological procedures to landslide risk mapping in Brazilian slums</i>
12:00-12:15	<i>Discussion</i>
13:00-14:30	<i>Lunch break</i>
14:30-14:45	Olena Dragomyretska , Oleksandr Dragomyretskyy, Mikhail Skipa <i>Assessment of actual morphodynamic activity of landslide slopes in Odessa</i>
14:45-15:00	Ogbonnaya Igwe , Hiroshi Fukuoka, Anthony Diyokeugwu <i>Geotechnical properties and stability of a landslide site in South Eastern Nigeria</i>
15:00-15:15	S.G. Lee and M.G. Winter <i>Landslides in Urban Areas of South Korea and some Issues for Successful Risk Reduction</i>
15:15-15:30	Peng Cui <i>Giant Debris Flow in Zhouqu, China: Formation Cause and Mitigation Countermeasures</i>
15:30-16:00	<i>Discussion</i>

L29 - Rapid landslide runout analysis

Convenors: Claudio Scavia, Marina Pirulli

ETHIOPIA ROOM

09:00-09:15	<i>Introduction to the Session</i>
09:15-09:45	Keynote Christian Scheidl, Dieter Rickenmann , Brian W. Mc Ardell <i>Runout prediction of debris flows and similar mass movements</i>
09:45-10:00	Chiara Deangeli, Erika Paltrinieri and Davide Tiranti <i>Debris flow analysis: from lithological classification of the basin to deposition</i>
10:00-10:15	Maria Marsella, Alberto Sonnessa, Paolo Tommasi and Aurora Salino <i>Stability conditions and evaluation of the runout of a possible landslide at the Northern flank of La Fossa active volcano, Italy</i>
10:15-10:30	<i>Discussion</i>
10:30-11:00	<i>Coffee break</i>
11:00-11:15	Giovanni Mortara, Marta Chiarle, Oldrich Hungr, Luzia Fischer, Fabio Villa and Andrea Tamburini <i>Slope instabilities in high-mountain rock walls. Recent events on the Monte Rosa east face (Macugnaga, NW Italy)</i>
11:15-11:30	Andrea Filipello, Giuseppe Mandrone <i>A ready to use GRASS GIS workbench for rockfall analysis</i>
11:30-11:45	Daniel Tobler, Rachel Riner and Robert Pfeifer <i>Runout modelling of shallow landslides over large areas with SLIDEPORT</i>
11:45-12:00	Alexander Preh , Barbara Kuen, Oldrich Hungr and Rainer Poisel <i>Run-up of landslide runouts against protective barriers – a comparison of the Particle Flow Code (PFC) and DAN</i>
12:00-12:15	<i>Discussion</i>
13:00-14:30	<i>Lunch break</i>



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

FRIDAY 7 OCTOBER

L03 - Wildfires and slope instability

Convenors: 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

Convenors: 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

Convenors: 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 <i>Three-dimensional modelling of rotational slope failures with GRASS GIS</i>
09:45-10:00	Marco Petitta, Fabrizio Millesimi, Piero Farabollini , Serafino Angelini and Riccardo M. Menotti <i>Application of the computerised cartography to the territory management: the geomorphological map of palaeolandslides in the Velino River Valley (Central Apennines, Italy)</i>
10:00-10:15	Oleksandr Trofymchuk, Iurii Kaliukh , Iryna Trofimova and Anna Glebchuk <i>Mathematical and GIS-modeling of landslides in Kharkiv region of Ukraine</i>
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 <i>Database of unstable rock slopes of Norway</i>
10:30-11:00	Coffee break
11:00-11:15	Paola Salvati , Ivan Marchesini, Vinicio Balducci, Cinzia Bianchi and Fausto Guzzetti <i>A new digital catalogue of harmful landslides and floods in Italy</i>
11:15-11:30	Raffaele De Amicis, Federico Prandi, Giuseppe Conti , Diego Taglioni, Stefano Piffer, Marco Calderan and Alberto Debiasi <i>Landslides and Spatio-Temporal Processing of Geographical Information</i>
11:30-11:45	Peter T. Bobrowsky and María José Domínguez-Cuesta <i>Proposed landslide susceptibility map of Canada based on GIS</i>
11:45-12:00	Chunxiang Wang , Hideaki Marui, Gen Furuya and Naoki Watanabe <i>Two integrated models simulating dynamic process of landslide using GIS</i>
12:00-12:15	Sebastiano Perriello Zampelli <i>A GIS-aided method for an assessment of the sliding susceptibility of volcaniclastic soils in Campania (Italy)</i>

L09 - Advances in slope stability modelling

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

AUSTRIA ROOM

09:00-09:15	Domenico Gullì , Maura Pellegrini <i>Experimental approach for stability evaluations of Carrara marble basins</i>
09:15-09:30	Alberto Grimod , Giorgio Giacchetti <i>Protection from high energy impacts using reinforced soil embankments: design and experiences</i>
09:30-09:45	Stefano Barontini , Marco Peli Thom A. Bogaard and Roberto Ranzi <i>Dimensionless numerical approach to perched waters in 2D gradually layered soils</i>
09:45-10:00	Jean-françois Parrot , Veronica Ochoa-Tejeda <i>The 2010 muddy-debris flow of Angangueo (Mexico). Modelling and simulation.</i>
10:00-10:15	Bin He , Kyoji Sassa, Maja Ostric, Kaoru Takara, Yosuke Yamashiki <i>Effects of parameters in landslide simulation model LS-RAPID on the dynamic behaviour of earthquake-induced rapid landslides</i>
10:15-10:30	Sabrina Bonetto, Cesare Comina, Andrea Giuliani, Giuseppe Mandrone <i>Geological and geophysical tests to model a small landslide in the Langhe hills</i>
10:30-11:00	Coffee break

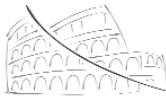
11:00-11:15	Marcello Brugioni , Bernardo Mazzanti, Giovanni Montini, Lorenzo Sulli <i>Use of SAR interferometry for landslide analysis in the Arno river basin</i>
11:15-11:30	Chunxiang Wang , Željko Arbanas, Snježana Mihalić, Hideaki Marui <i>Three dimensional stability analysis of the Grohovo landslide in Croatia</i>
11:30-11:45	Chia-ming Lo , Tien-yao Cheng, Lun-wei Wei, Cheng-yang Hsiao, Chin-tung Cheng, Ming-lang Lin <i>Kinematic Process of the Xiaolin Landslide</i>
11:45-12:00	Yolanda Deubelbeiss, Christoph Graf , Marc Christen <i>Numerical modeling of debris flows with RAMMS – Alpine case studies</i>
12:00-12:15	<i>Discussion</i>

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

Convenors: Raoul Carreno, Giuliano Di Baldassarre, Tiziana Guida

IRAN ROOM

09:00-09:15	Giuliano Di Baldassarre <i>Introduction</i>
09:15-09:30	Gaia Checcucci <i>Landslide Risk Management in the Arno River Basin</i>
09:30-09:45	Graziella Devoli , Terje Bargel, Andrea Taurisano, Toril Wiig, Hallvard Berg, Eli Øydvin, Reginald L. Hermanns and Louise Hansen <i>Identifying needs and areas for future landslide hazard mapping in Norway</i>
09:45-10:00	Margarete Wöhrer Alge <i>Landslide management in Austria with particular attention to hazard mapping and land use planning</i>
10:00-10:30	Keynote Fabio Trezzini , Gianluigi Giannella and Tiziana Guida <i>Landslide and flood: economic and social impacts in Italy</i>
10:30-11:00	Coffee break
11:00-11:15	Nando Ferranti, Giovanni De Caterini, Quintilio Napoleoni and Gabriele Leoni <i>Landslides and Quarries in Italy: reflections on census and safety</i>
11:15-11:30	Nikolai Dobrev <i>Landslide problems in Bulgaria: factors, distribution and countermeasures</i>
11:30-11:45	Italo Giulivo, Fiorella Galluccio, Fabio Matano , Lucia Monti and Carlo Terranova <i>Landslide risk and mitigation policies in Campania Region (Italy)</i>
11:45-12:00	Surya Parkash Gupta , Om Prakash and J.c. Dhoudiyal <i>Some Case Studies on Catastrophic Landslides in Uttarakhand State, India – Records and Implications in Strategy for Landslides Risk Reduction</i>
12:00-12:15	<i>Discussion</i>



L17 - Advanced technologies for landslide stabilisation

Convenors: Paul Marinos, Paolo Tommasi

PHILIPPINES ROOM

09:00-09:30	Keynote Gianfranco Urcioli , Marianna Pirone <i>Subsurface drainage for slope stabilization</i>
09:30-09:45	Tiziana Verrascina , Claudio Zarotti, Costantino Panzani and Nicola Era <i>Surface protection of slopes by grass covering techniques</i>
09:45-10:00	Luis Miguel Laguna Megal , Jaime Perera Bermúdez, Raúl Chaminade Bautista, Adolfo Hoyos Limón - Gil, Juan Carpio Garoz and Javier Velasco Núñez <i>High capacity flexible systems for slope stabilization in La Gomera (Spain)</i>
10:00-10:15	Giorgio Giacchetti and Alberto Grimod <i>Soil Nailing with flexible structural facing: design and experiences</i>
10:15-10:30	Shanker Dhakal , Netra Prakash Bhandary, Ryuichi Yatabe and Naoki Kinoshita <i>Finite Element Modelling and Parametric Analyses of a Long-span Pocket-type Rockfall Interceptive Cable-Net Structure</i>
10:30-11:00	Coffee break
11:00-11:15	Chaido Doulala-Rigby , Andrew Stone <i>Landfill slip failure repair with geogrids using waste fill material at Danylan, Wales</i>
11:15-11:30	Giovanni Vaciago <i>The SafeLand compendium of landslide risk mitigation measures</i>
11:30-11:45	Giuliano Sauli <i>Erosion control of mountain rocky streams by means of soil bioengineering techniques in nord – east Italy</i>
11:45-12:00	Pandolfi Valentino
12:00-12:15	Discussion

L23 - Landslides in coastal areas

Convenors: Vincenzo Liguori, Crescenzo Violante

ETHIOPIA ROOM

11:00-11:15	Boyko Berov <i>State of the art for landslides along the North Bulgarian Black Sea coast</i>
11:15-11:30	Thom Bogaard , Olivier Maquaire, Candide Lissak and Jean-philippe Malet <i>Identification of hydro-meteorological triggers for Villerville coastal landslide</i>
11:30-11:45	Olivier Marc , Sedan Olivier and Monod Bernard <i>Contribution of physical modelling to landslide hazard mapping: case of the French Basque coast</i>
11:45-12:00	Fernando Marques , Rita Matildes and Paula Redweik <i>Statistically based sea cliff instability susceptibility assessment at regional scale, at the Burgau-Lagos coastal section (Algarve, Portugal)</i>
12:00-12:15	Crescenzo Violante <i>Coupling on-land and marine investigations to assess coastal instability in the Napoli and Salerno bays (Campania, Southern Italy)</i>

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

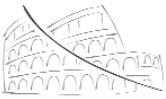
TUESDAY, 4 OCTOBER

- 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

KEYNOTE SPEAKER



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 Turtmannatal, CH
L01 - Landslide scenarios accounting for the climatic, geomorphological and geotechnical context
Philippines Room
- 11:00-11:25 **Pasquale Schiano**
Climatic scenarios on the Mediterranean area
L01 - Landslide scenarios accounting for the climatic, geomorphological and geotechnical context
Philippines Room
- 11:25-11:50 **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
- 11:50-12:15 **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

Convenors: 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

Convenors: Josè 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

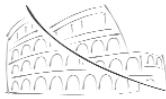
Landslide susceptibility in Archaeological and Natural Historic Park of Rupestrian Churches

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 Imbosimato 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
Relationships between slope instabilities, active tectonics and drainage systems: the Dúdar landslide case (Granada, Southern Spain)
- WLF2-0400 Shiho Asano
Effect of the thickness of geological strata on seismically-induced slope failure in IMN Earthquake, 2008 in Japan

- WLF2-0555 Nguyen Anh Tuan, Darrozes Jose, Soula Jean-claude, Courjault-radé Pierre and Saillard Marianne
Earthquake triggered shallow sloping megalandslides
- 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

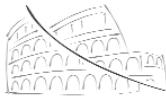
Convenors: Marten Geertsema, Marta Chiarle, Wei Shan

POSTER AREA

Display Time 08:00–18:00

Author in Attendance: 09:00-10:30

- 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

Convenors: Luciano Picarelli, Vit Vilimek

POSTER AREA

Display Time 08:00–18:00

Author in Attendance: 14:30-16:00

- WLF2-0377 Junfeng Wu, Yunsheng Wang and Simeng Dong
Research on Chuni landslide geological evolution process
- WLF2-0564 Audrey Baills, Nicolas Desramaut, Rosalie Vandromme, Audrey Hohmann, Gilles Grandjean and Olivier Sedan - Miegemolle
Changing pattern in climate-driven landslide hazard: an alpine test site
- WLF2-0784 Mario Floris, Andrea D'Alpaos, Anna De Agostini, Giulia Tessari and Rinaldo Genevois
Variation in the occurrence of rainfall events triggering landslides
- WLF2-0216 Vivian Bih Che, Philippe Trefois, Kervyn Matthieu, Gerald G.j Ernst, Eric Van Ranst, Christian Schroeder, Patric Jacobs and Emmanuel Che Suh
Geotechnical and mineralogical characterisation of soils from landslide scars and inferred sliding mechanism: case of Limbe, SW Cameroon.
- WLF2-0199 Toshihide Sugimoto, Tamotsu Nozaki and Hideo Sakai
Relationships between Geological Structure and Mechanism of Landslides on the rim area of Toga-Graben
- WLF2-0411 Johann Facciorusso, Claudia Madiai and Giovanni Vannucchi
A case study of rain-fall triggered landslides in the Northern-Central Appennines (Italy): numerical analyses and field observations
- WLF2-0730 Muhsin Elie Rahhal
Addressing Slope Stability Issues- Case Studies
- WLF2-0676 Maceo-giovanni Angeli, Paolo Gasparetto, Francesco Marabini and Fabrizio Pontoni
Analysis of long-term monitoring data to check landslides response to climate change
- WLF2-0716 Khalida Khan, Ghulam Rasul and Rabia Faridi
Impact of climate change, threats of landslides hazards to the Murree, foothills of Himalayas, Pakistan
- WLF2-0178 Irina Pavlova, Vincent Jomelli, Daniel Brunstein and Delphine Grancher
Meteorological and geomorphological context and debris flows occurrence in the French Alps: a regional investigation
- WLF2-0153 Younus Ahmed Khan
Mechanisms of rain-induced landslide events of 2008 in hills of Chittagong City of Bangladesh

L04 - Landslide inventory and susceptibility and hazard zoning

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

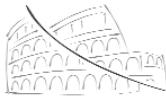
POSTER AREA

Display Time 08:00–18:00

Author in Attendance: 11:00-13:00

- 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 Paulín
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
Landslide inventories for reliable susceptibility maps in Lower Austria
- WLF2-0553 Paolo Roberto Federici, Alberto Puccinelli, Giacomo D'Amato Avanzi,
Francesco Falaschi, Roberto Giannecchini, Daria Marchetti, Alberto Pochini,
Franco Rapetti, Adriano Ribolini
Zoning and mapping landslide hazard in the Castelnuovo di Garfagnana region (Tuscany, Italy)
- WLF2-0320 Gabriel Legorreta Paulín, Marcus Bursik, José Lugo Huber
An overview of a GIS method for mapping and assessing landslide hazards
- WLF2-0631 Halvor Bunkholt, Tim Redfield, Per Terje Osmundsen, Thierry Oppikofer,
Reginald L. Hermanns, John Dehls
The role of inherited structures in deep seated slope failures in Kåfjorden, Norway
- WLF2-0638 Alessandro Chelli, Andrea Ruffini, Paolo Vescovi, Claudio Tellini
Tectonics and large landslides in the Northern Apennines (Italy)
- WLF2-0715 Heon-Woo Lee, Hyuck-Jin Park, Ik Woo, Jeong-Gi Um
Analysis of landslide susceptibility using Monte Carlo simulation and GIS
- WLF2-0704 Jorge Yépes, Martín Jesús Rodríguez-Peces, Sara Marchesini, Sergio Leyva,
José Luis Díaz-Hernández
Amplification of the destructive effects of rock falls by sliding on volcanic soils: examples from the Anaga massif (Tenerife Island, Spain)
- WLF2-0429 Claudia Meisina, Davide Zizoli, Francesco Zucca
Methods for shallow landslides susceptibility mapping: an example in Oltrepo Pavese
- WLF2-0266 Giulio Masetti, Giuseppe Ottria, Franco Ghiselli, Aldo Ambrogio,
Gianluca Rossi, Lanfranco Zanolini
Multidisciplinary study of the Torrio landslide (Northern Apennines, Italy)
- WLF2-0396 Philip Leopold, Gerhard Heiss, Helene Petschko, Rainer Bell, Thomas Glade
Susceptibility maps for landslides using different modelling approaches
- 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, Tomaž Podobnikar, Urška Petje, Matjaž Mikloš
Topographic data and numerical debris-flow modeling
- WLF2-0299 Marco Capitani, Paolo Roberto Federici
MSUE Conditional Method predictive power, Milia Basin, Tuscany, Italy

DAILY POSTER PROGRAMME • L04 • WEDNESDAY 5 OCTOBER



- WLF2-0599** Giacomo D'Amato Avanzi, Yuri Galanti, Roberto Giannecchini, Susanna Duchi, 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
Factor selection procedures in a Google EarthTM aided landslide susceptibility model: application to the Beiro river basin (Spain)
- WLF2-0175** Mihaela Constantin, Martin Bednarik, Marta-Cristina Jurchescu, Koji Ishida, Kei Higuchi
Regional and local approaches on landslide susceptibility assessment in the region located between the Buzau and the Slanicul Buzaului valleys, Romania
- WLF2-0687** Maurizio Lazzari, Maria Danese
A multitemporal kernel density estimation approach for landslide susceptibility assessment
- 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
Slope angle as indicator parameter of landslide susceptibility in a geologically complex area
- WLF2-0269** Mauro Generali, Marco Pizzoli
The susceptibility map for shallow landslides initiation in the Emilia

L06 - Landslides and extreme weather

Convenors: Hiroshi Fukuoka, Gabriele Scarascia Mugnozza

POSTER AREA

Display Time 08:00–18:00

Author in Attendance: 14:30-16:00

- 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
The impact of extreme precipitation events on debris-flow initiation in Norway
- WLF2-0661** Jose Cepeda, Jean Philippe Malet and Alexandre Remaitre
Landslide inventories at Barcelonnette (France), Norangselva and Nedre Romerike (Norway) for estimating rainfall thresholds

L13 - Landslide as sediment sources

Convenors: Giovanni Crosta, Matjaz Mikos, Ziaoddin Shoaei

POSTER AREA

Display Time 08:00–18:00

Author in Attendance: 14:30-16:00

WLF2-0644

Dan Shugar, John Clague and Marco Giardino

A quantitative assessment of the sedimentology and geomorphology of rock avalanche deposits

WLF2-0609

Davide Brambilla, Laura Longoni, Fabrizio Mazza and Monica Papini

An automated method for solid transport evaluation in mountain basins

L16 - Early warnings and emergency plans

Convenors: Nicola Casagli, Yin Yuepin

POSTER AREA

Display Time 08:00–18:00

Author in Attendance: 14:30-16:00

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

Landwarn: an operative early warning system for landslides forecasting based on rainfall thresholds and soil moisture

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

L24 - Landslides and cultural heritage

Convenors: Paolo Canuti, Yoshinori Iwasaki, Daniele Spizzichino

POSTER AREA

Display Time 08:00–18:00

Author in Attendance: 14:30-16:00

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)

DAILY POSTER PROGRAMME • L13/L16/L24 • WEDNESDAY 5 OCTOBER



WLF2-0635	Claudio Margottini <i>The Park of Monsters of Bomarzo (Central Italy): from rock fall to a resort area.</i>
WLF2-0398	Claudio Margottini, Giuseppe Delmonaco, Daniele Spizzichino and Orlando Pandolfi <i>Landslide mitigation measures for the conservation of the archaeological site of Orongo (Easter Island-Chile)</i>
WLF2-0300	Garyfalia Konstantopoulou, Natalia Spanou and Villy Kontogianni <i>Rockfall susceptibility - hazard and risk assessment of Akronafplia historical site, Nafplio, Greece</i>
WLF2-0739	Claudio Margottini <i>Ensuring long term stability to Buddha niches and Bamiyan cliff (Afghanistan), 10 years after the Statues destruction</i>
WLF2-0600	Daniele Spizzichino, Claudio Margottini, Silvia Castellaro and Francesco Mulargia <i>Passive Seismic survey for Cultural Heritage landslide risk assessment</i>
WLF2-0642	Irene Delaveris and Claudio Margottini <i>Soil erosion constrain in the conservation of Akapana Pyramid Mound (Tiwanaku, Bolivia)</i>
WLF2-0665	Claudio Margottini, Daniele Spizzichino, Silvia Castellaro and Francesco Mulargia <i>Vibration analysis for prediction of rock fall instability: application to the archaeological ceremonial center of Mata Ngaru (Orongo Village, Rapa Nui)</i>
WLF2-0669	Matteo Bernardi, Lisa Borgatti, Francesca Continelli, Monica Ghirotti, Cristiano Guerra, Alberto Landuzzi, Claudio Corrado Luente and Gianfranco Marchi <i>San Leo: ten centuries of coexistence with landslides</i>
WLF2-0523	Zerkal Oleg, Gvozdeva Irina and Fomenko Igor <i>Landslide Mapping and Landslide Hazard Assessment in Geyser Valley (Kamchatka, Russia)</i>
WLF2-0591	Luigi Coppola and Edward Bromhead <i>Geoarchaeology understood as multitemporal analysis of the interaction between historical and archaeological sites and the local physical environment</i>
WLF2-0728	Filippo Maria Soccodato, Luciano Tortoioli, Angelo Maria Mazzi and Federico Uccelli <i>The Orvieto Observatory</i>

L28 - Risk management in Multi-hazard environment

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

POSTER AREA

Display Time 08:00–18:00

Author in Attendance: 14:30-16:00

WLF2-0647	Jorge Yepes, Martín Rodríguez Peces, Nieves Sánchez, Inés Galindo and Rodrigo Del Potro <i>Geomorphologic evidences of flank instabilities in the eastern sector of the Tejeda Volcano (Canary Islands, Spain) during the Quaternary</i>
WLF2-0651	Jorge Yepes, Nieves Sánchez, Martín Rodríguez Peces, Inés Galindo and Rodrigo Del Potro <i>Geomorphologic evidences of great flank collapses in the northwest of Gran Canaria (Canary Islands, Spain)</i>

- WLF2-0617 Francesco Ronchetti, Alessandro Corsini, Katrin Plunger, Martina Stefani, Ingo Schnetzer, Tanja Preseren, Joze Papez and Stefan Kollarits
Improve information provision for disaster management: MONITOR II, EU project
- WLF2-0526 Yvonne Schaub, Wilfried Haeberli, Christian Huggel, Matthias Künzler and Michael Bründl
Landslides and new lakes in deglaciating areas: a risk management framework
- WLF2-0206 Yukni Arifanti, Sukahar Eka Adi Saputra, Arne Hoffman-rothe and Bianca Pischke
Landslide Risk Assessment in Earthquake Prone Area at Kabupaten Ende, Indonesia
- WLF2-0246 Jaime Bonachea, Juan Remondo, Viola Maria Bruschi and Antonio Cendrero
Landslide risk models as a tool for predicting future damage
- WLF2-0720 Khalida Khan, C. M. Ashraf and Kamran Asif
Preliminary understanding of a sudden Attaabad-landslide hazard and its corresponding Hunza River Watershed, district Hunza-Nagar, Northern Areas of Pakistan



THURSDAY 6 OCTOBER

L08 - GIS application developments

Convenors: Serafino Angelini, Esther Jensen, Raffaele De Amicis

POSTER AREA

Display Time 08:00–18:00

Author in Attendance: 16:30-18:00

- | | |
|-----------|--|
| WLF2-0698 | Esther Hlíðar Jensen, Jón Kristinn Helgason, Sigurjón Einarsson, Guðrún Sverrisdóttir, Ármann Höskuldsson and Björn Oddsson
<i>Lahar, Floods and Debris flows resulting from the 2010 Eruption of Eyjafjallajökull: Observations, Mapping and Modelling</i> |
| WLF2-0111 | Herwig Proske, Klaus Granica and Christian Bauer
<i>Different Approaches of Rockfall Susceptibility Maps in Lower Austria</i> |
| WLF2-0280 | Iuliana Armas, Florica Stroia and Laura Giurgea
<i>Statistic versus deterministic method for landslide susceptibility mapping</i> |
| WLF2-0452 | Eliene Coelho and Luciana Pascarelli
<i>Using the information system and multi-criteria analysis in the geological risk management in São Paulo</i> |
| WLF2-0482 | Mauro Palombella
<i>Maps of Landslide areas with technical GIS: the use of high resolution DTM</i> |
| WLF2-0415 | Carlo Bisci, Domenico Aringoli, Piero Farabolini, Marco Materazzi and Gilberto Pambianchi
<i>Landslide hazard in the Marche Region (Central Italy): a GIS based statistical analysis.</i> |
| WLF2-0722 | Elisa Arnone, Annalisa Di Piazza, Leonardo V. Noto and Goffredo La Loggia
<i>Landslide susceptibility mapping: A comparison of logistic regression and neural networks methods in a small Sicilian catchment</i> |
| WLF2-0223 | Pietro Domenico De Cosmo, Andrea Suma, F. Javier Gracia and Franco Mantovani
<i>Project KNOWLAND - Open Source Software serving real-time landslide mapping and hazard assessment</i> |

L09 - Advances in slope modelling

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

POSTER AREA

Display Time 08:00–18:00

Author in Attendance: 09:00-10:30

- | | |
|-----------|---|
| WLF2-0421 | Gianluca Martelloni, Emanuele Massaro and Franco Bagnoli
<i>A theoretical model based on molecular dynamics for triggering and propagation of shallow landslides induced by rainfall</i> |
| WLF2-0461 | Pantaleone De Vita and Michele Nappi
<i>Regional distribution of ash-fall pyroclastic soils for landslide susceptibility assessment</i> |
| 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
<i>Twisting Theory and RCR MST: A new highly non linear modeling applied to Corvara landslides</i> |

- WLF2-0324 Veronica Ochoa-tejeda, Jean-françois Parrot and Monique Fort
Mass movement classification using morphometric parameters (Puebla, Mexico)
- WLF2-0487 Martín J. Rodríguez Peces, Jorge Yepes Temiño and Esther Martín Nicolau
Geotechnical features of the volcanic rocks related to the Arteara rock avalanche in Gran Canaria (Canary Islands, Spain)
- WLF2-0361 Giulio G.r. Iovine, Stefano L. Gariano, Pasquale Iaquinta and Oreste G. Terranova
CMSAKe: a hydrological model to forecasting landslide activations
- WLF2-0352 George Papathanassiou, Vasilis Marinos, Dimitris Vogiatzis and Sotiris Valkaniotis
A rock fall analysis study in Parnassos area, Central Greece
- WLF2-0363 Oreste G. Terranova, Stefano L. Gariano, Roberto Greco, Pasquale Iaquinta, Annamaria D. Pellegrino and Giulio G.r. Iovine
Shallow-landslide susceptibility in the Costa Viola mountain ridge (Italia)
- WLF2-0113 Xu Xiangning , Wang Lansheng and Chen Yuliang
Study of Shock Landslide-type Geomechanical Model Test for Consequent Rock Slope
- WLF2-0148 Aline Freitas Da Silva and Lázaro Valentin Zuquette
Landslide hazard assessment based on FS3D combined with an infiltration model
- WLF2-0745 Jang, Kyoung-jun Male
The Behavior of Engineered Slope Under Variable Seepage Conditions in Sandy Soils
- WLF2-0450 Byung-gon Chae, Kyu-bo Park and Hyuck-jin Park
Analysis of safety factor of an infinite slope considering rainfall and saturation depth ratio of soil
- WLF2-0454 Byung-don Ro, O-il Kwon, Hyung-min Kim, Choung-sik Jo and Yong Baek
Development of cut-slope protection/reinforcement method decision-making process system for field engineer
- WLF2-0459 Pantaleone De Vita, Durante Aquino and Pietro Bruno Celico
Small-scale factors of landslide susceptibility in pyroclastic soil mantled slopes of Campania (southern Italy): the debris avalanche of 4 March 2005 in Nocera inferiore (SA)
- WLF2-0581 Luciana Giuzio, Stefania Pascale and Francesco Sdao
Geomorphological evolution and hazard simulation by an Cellular Automata model of a large and complex landslide near Avigliano urban area (South Italy)
- WLF2-0109 Yang Hong , Zonghu Liao, Dalia Kirschbaum and Robert Adler
Regional Landslide Hazard Assessment: Susceptibility Mapping, Predictive Modeling and Early Warning

L10 - Landslides and Socio-economic Impact: Basic Data and Loss Modeling

Convenors: Lynn Highland, Dalia Kirschbaum, Dave Petley

POSTER AREA

Display Time 08:00–18:00

Author in Attendance: 11:00-12:15

- WLF2-0544 Liesbet Vranken, Pieter Van Turnhout, Miet Van Den Eeckhaut, Liesbeth Vandekerckhove and Jean Poesen
Economic Valuation of Landslide Damage in hilly regions: a case study from the Flemish Ardennes, Belgium



- WLF2-0301 Sandu Boengiu and Marcel Török
Deep Seated Landslides of Securile (Getic Piedmont, Romania) and its Implication for the Settlement
- WLF2-0410 Olga Petrucci and Maria Carme Llasat
Impact of disasters in Mediterranean regions: an overview in the framework of the HYMEX project
- WLF2-0473 Olga Petrucci and A. Aurora Pasqua
Rainfall-Related Phenomena along a road sector in Calabria (Southern Italy)
- WLF2-0198 Narayan Gurung
Impact of Rainfall Induced Landslides in Nepal
- WLF2-0585 Surya Parkash Gupta, J.c. Dhondiyal and Om Prakash
Incidences and impacts of some socio-economically significant landslide events in India

L12 - Landslides and reservoirs

Conveners: Alexander Strom, Fawu Wang

POSTER AREA

Display Time 08:00–18:00

Author in Attendance: 16:30-18:00

- WLF2-0442 Pompeo Coico, Domenico Calcaterra, Tommaso De Pippo, Diego Di Martire and Domenico Guida
A preliminary perspective on landslide dams of Campania region, Italy
- WLF2-0455 Vladimir Besstrashnov, Anatoliy Zhirkrevich and Alexander Strom
Influence of landslide and glacial blockages on the Rogun HPP safety
- WLF2-0550 Laura Superchi, Luca Zorzi, Fabio Ferri, Rinaldo Genevois and Maria Iafelice
A geomechanical evaluation of the rock mass involved in the 1963 Vajont landslide (NE Italy)
- WLF2-0194 Vladimir Prokopovich and Tatyana Sozinova
Displacement Calculations of the Waterside Slope after a Seismic Impact
- WLF2-0726 Ella Nesynova, Igor Parabuchev and Alexander Yudkevitch
Sliding Phenomena at Zagorsk PSP
- WLF2-0478 Jan Klimeš, Vít Vilímek, Miroslava Benešová, Petr Bouška, Cesar Portocarrero and Alejo Cochachin Rapre
Glacial lake outburst flood in the Chuchún watershed, Cordillera Blanca, Peru
- WLF2-0182 Isakbek Torgoev, Yuriy Alioshin, Hans-balder Havenith and Alexander Strom
Impact of 3000-t blast on unstable slopes near the Kambarata-2 HPP site, Kyrgyzstan
- WLF2-0145 Nikolay Ischuk
The Origin of the Mountain River Closures in Tajikistan
- WLF2-0177 Erast Gaziev
Rock Slope Stability Assessment in the Fernando Hiriart Arch Dam Reservoir
- WLF2-0343 Yong Yuan, Qiang Xu and Minggao Tang
Extremely large rock avalanche induced by the “5.12” Wenchuan earthquake, Chaoyang Village, China, 2008
- WLF2-0517 Zerkal Oleg, Ischuk Nikolai and Ischuk Anatoly
Baypaza landslide: structure, mechanism of displacement and present conditional

WLF2-0133	Tang Yanchun <i>Analysis and Prediction on Stability of Mu-zhu-ping Slope Based on Coupled Fluid-Solid Theory of ABAQUS</i>
WLF2-0538	Takashi Saito and Koji Matsunami <i>The initiation processes of huge landslide masses triggered by the Iwate-Miyagi Nairiku Earthquake in the Aratosawa reservoir</i>
WLF2-0706	Derek Rust, Andrey Korjenkov and Alessandro Tibaldi <i>Reservoirs and landslide-dammed lakes along the Talas-Fergana fault, central Tien-Shan mountains, Kyrgyzstan: assessing hazard potential</i>
WLF2-0112	Shuai Zhang <i>Risk Assessment of geological disasters happened in Hydropower Project using GIS</i>

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

Convenors: 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 <i>Setback distance between natural slope and building along the RN8 in Algeria</i>
WLF2-0456	Raluca Maftei, Elena Tudor, George Vina and Constantina Porumbescu <i>The policy issue of landslides in Romania</i>
WLF2-0570	Jan Klimeš, Stanislav Štábl, Josef Stemberk and Dušan Dufka <i>NEMETON - decision support system for rockfall and rock slide hazard mitigation</i>

L15 - Landslides and urban risk reduction

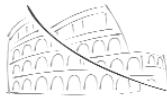
Convenors: Domenico Calcaterra, C.F. Lee

POSTER AREA

Display Time 08:00–18:00

Author in Attendance: 16:30-18:00

WLF2-0239	Yuriy Aleshin and Isakbek Torgoev <i>Algorithmization of landslide prediction based on neural network modelling</i>
WLF2-0430	José Daniel Brea, Pablo Spalletti and Gabriel Amores <i>The 2006 and 2009 landslide and flood events in the Tartagal river basin (Argentina)</i>
WLF2-0611	Martin Krkač, Pavle Ferić, Laszlo Podolszki and Aleksandar Toševski <i>Japanese - Croatian Project: Preliminary Investigations of the Kostanjek Landslide</i>
WLF2-0252	Ylber Muceku and Mentor Lamaj <i>Mass movement and risk assessment in Kruja town, Albania</i>
WLF2-0451	Luciana Pascarelli, Rafaela Lançone, Rodrigo Costa, Luiz Pires, Eduardo Macedo, Fabricio Mirandola, Fabiana Checchinato and Katia Canil <i>Mapping of geological at-risk areas in the city of São Paulo: issues and results from the largest survey of risk in Brazil</i>
WLF2-0510	Giandomenico Fubelli, Francesco Dramis, Domenico Guida and Antonello Cestari <i>Landslide Hazard and Risk in the Dessie Town Area (Ethiopia)</i>



- 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

Convenors: 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. Baldacci, 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 embankments 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

Convenors: 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

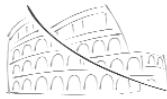
Convenors: Rajenda K. Bandari, Leonardo Cascini, Dario Peduto

POSTER AREA

Display Time 08:00–18:00

Author in Attendance: 11:00-12:15

- WLF2-0469 Roberta Prokešová, Alžbeta Medved'ová 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 Sciarra and Giorgio Lollino
Multitemporal study of the San Martino Sulla Marruccina 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 Đomlija and Martina Vivoda
Remedial works on the Smre je Landslide, Croatia
- WLF2-0481** Diego Di Martire, Massimo Ramondini and Domenico Calcaterra
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 Calcaterra 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

Convenors: 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

Convenors: 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



INTERNAL 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 **LEICA Geosystem**
from project to management of a integrated early warning system for landslides
Prof. G. Crosta - *Landslide characterisation, risk assessment and mitigation countermeasures*
- L. H Blikra** - *The observational method: instrumental choises 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 Gslifgraben (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

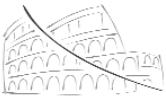
PHILIPPINES ROOM

- 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

ORGANISERS

The Second World Landslide Forum is organized by the Global Promotion Committee of the International Programme on Landslides (IPL).

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.

INVOLVED INSTITUTIONS

Organisers

IPL Global Promotion Committee including:

International Consortium on Landslides (ICL)

United Nations Educational, Scientific and Cultural Organization (UNESCO)

World Meteorological Organization (WMO)

Food and Agriculture Organization of the United Nations (FAO)

United Nations International Strategy for Disaster Risk Reduction (UNISDR)

United Nations University (UNU)

International Council for Science (ICSU)

World Federation of Engineering Organizations (WFEO)

Italian Institute for Environmental Protection and Research (ISPRA)

Earth Sciences Department, University of Florence (ICL-Europe)

Co-sponsors

International Union of Geological Sciences (IUGS)

Under the auspices of

International Association for Engineering Geology and the Environment, Italian Section (IAEG)

Italian Association of Engineering Geologist (AIGA)

Italian Association of Geotechnique (AGI)

Italian Association for Mining Engineers, Environment and Territory (ANIM)

Italian Georesources and Environment Association (GEAM)

International Organising Board

Irina BOKOVA (UNESCO Director-General)

Catherine BRECHIGNAC (ICSU President)

Jacques DIOUF (FAO Director-General) invited

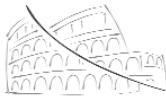
Michel JARRAUD (WMO Secretary-General)

Maria P. LAFFARGUE (WFEO President)

Konrad OSTERWALDER (UNU Rector)

Bernardo DE BERNARDINIS (ISPRA President)

UNISDR Director



Chairpersons

Claudio MARGOTTINI (ISPRA, Forum Chair)

Paolo CANUTI (ICL President)

Kyoji SASSA (ICL Executive-Director)

Deputy chairpersons

Peter BOBROWSKY (IUGS Secretary General)

Deliang CHEN (ICSU Executive Director)

Peter LYTTLE (ICL Vice President, US Geological Survey)

Eduardo ROJAS-BRIALES (Assistant Director General of FAO)

Badaoui ROUHBAN (Director of UNESCO's Section for Disaster Reduction)

Yueping YIN (ICL Vice President, China Geological Survey)

SCIENTIFIC ADVISORY BOARD

Representing Organisation

Irasema ALCANTARA-AYALA (Vice President of International Geographical Union - IGU)

Walter AMMAN (President Davos Forum)

Michael CROZIER (President of International Association of Geomorphologists - IAG)

Carlos DELGADO (President of International Association of Engineering Geology - IAEG)

Luca DEMICHELI (Secretary General of EuroGeoSurveys)

John HARDING (United Nations Secretariat to International Strategy for Disaster Reduction - UNISDR)

Srikantha HERATH (Senior Academic Programme Officer of the United Nations University - UNU)

Thomas HOFER (Forestry officer, Food and Agriculture Organization of the United Nations - FAO)

Yumio ISHII (Chair of the Committee on Disaster Risk Management of The World Federation of Engineering Organizations WFEO)

Derek MARTIN (Vice President for North America of International Society for Rock Mechanics - ISRM)

Howard MOORE (Senior Advisor, International Council for Science - ICSU)

Pedro SECO E PINTO (Past President of International Society for Soil Mechanics and Geotechnical Engineering - ISSMGE)

Luciano PICARELLI (Chairperson of the Joint Technical Committee on Landslides and Engineered slopes - JTC1 of ISSMGE, ISRM, IAEG)

Abstract Book of the Second World Landslide Forum 3-9 October 2011, Rome XI

Kaoru TAKARA (Vice chairperson of the Intergovernmental Council of the International Hydrological Programme of UNESCO - IHP)

Kuniyoshi TAKEUCHI (President of GeoRisk Commission of International Union of Geodesy and Geophysics - IUGG)

Landslide experts

Giovanni BARLA (Politecnico di Torino, Italy)
R.K. BHANDARI (Consultant, India)
Christophe BONNARD (Swiss Federal Institute of Technology, Lausanne, Switzerland)
Nicola CASAGLI (University of Florence, Italy)
Leonardo CASCINI (University of Salerno, Italy)
Giovanni CROSTA (University of Milano Bicocca, Milano, Italy)
Jordi COROMINAS (Technical University of Catalonia, Barcelona, Spain)
Dave CRUDEN (University of Alberta, Edmonton, Alberta, Canada)
Thomas GLADE (University of Vienna, Austria)
Jerome DE GRAFF (United States Department of Agriculture, Fresno - Ca - USA)
Michel HERMELIN (Universidad EAFIT, Medellin, Colombia)
Ken HO (Hong Kong Geotechnical office, Hong Kong, China)
Jurgen KROPP (Potsdam Institute for Climate Change - PIK, Potsdam, Germany)
Richard M. IVERSON (United States Geological Survey - Vancouver, WA, USA)
C. F. LEE (Hong Kong University, China)
Jacques LOCAT (University of Laval, Canada)
Paul MARINOS (University of Athens, Greece)
Hideaki MARUI (Niigata University, Japan)
Hormoz MODARESSI (BRGM, Orléans, France)
Farrouk NADIM (Norwegian Geotechnical Institute - NGI, Oslo, Norway)
Gabriele SCARASCIA MUGNOZZA (University of Rome, Italy)
Wang SIJING (Tsinghua University, China)
Vern SINGHROY (Canada Centre for Remote Sensing, Ottawa, Canada)
Alexander STROM (Institute of Geospheres Dinamics, RAS, Moscow, Russia)
Ikuo TOWHATA (University of Tokyo, Japan)
Keith TURNER (Emeritus Professor Colorado School of Mines, Denver, Colorado USA)
Keizo UGAI (Gunma University, Kiryu, Gunma, Japan)
Roger URGELES (Institut de Ciències del Mar - CSIC, Barcelona, Spain)
Yasser el SHAYEB (Egypt)
Sergio SEPULVEDA (University of Chile, Santiago)
Mauro SOLDATI (University of Modena and Reggio Emilia, Italy)
Pasquale VERSACE (Calabria University, Cosenza, Italy)
Cees van WESTEN (ITC, Enschede, Netherlands)
Kifle WOLDEAREGAY (University of Mekelle, Ethiopia)



LOCAL ORGANIZING BOARD

Forum Chairs

Paolo CANUTI (ICL President - WLF2 Chairperson)

Claudio MARGOTTINI (ISPRA - WLF2 Chairperson)

Kyoji SASSA (ICL Secretary General - WLF2 Chairperson)

Scientific Programme Committee

Luciano PICARELLI (Seconda Università di Napoli) - Responsible

Marco AMANTI (ISPRA)

Filippo CATANI (Università di Firenze)

Fausto GUZZETTI (CNR-IRPI)

Javier HERVAS (JRC)

Thomas HOFER (FAO)

Carla IADANZA (ISPRA)

Claudio MARGOTTINI (ISPRA - WLF2 Chairperson)

Paolo TOMMASI (CNR-IGAG)

Alessandro TRIGILA (ISPRA)

Editorial Committee

Filippo CATANI (Università di Firenze) - Responsible

Riccardo FANTI (Università di Firenze)

Fausto GUZZETTI (CNR-IRPI)

Javier HERVAS (JRC)

Irene RISCHIA (ISPRA)

Gabriele SCARASCIA MUGNOZZA (Università di Roma "La Sapienza")

Alessandro TRIGILA (ISPRA)

Logistic Committee

Thomas HOFER (FAO) - Responsible

Claudio MARGOTTINI (ISPRA - WLF2 Chairperson)

Orlando PANDOLFI (ECN)

Luna GUBINELLI

Field Trips

Gabriele SCARASCIA MUGNOZZA (Università di Roma “Sapienza”) - Responsible
Giuseppe DELMONACO (ISPRA)
Riccardo FANTI (Università di Firenze)
Irene RISCHIA (ISPRA)
Daniele SPIZZICHINO (ISPRA)
Paolo TOMMASI (CNR-IGAG)

Fund raising and exhibition

Claudio MARGOTTINI (ISPRA - WLF2 Chairperson) - Responsible
Paolo FARINA (IDS SpA)
Giorgio LOLLINO (CNR-IRPI)

WLF2 Website: <http://www.wlf2.org>

Ideated by: Alessandro Trigila, Carla Iadanza (ISPRA)

Web designers: Ornella Volpato, Yuri Carrer (CAB - Università di Padova)

Powered and hosted by: Centro di Ateneo per le Biblioteche, Università di Padova

Graphic designer: Ninja Kukavacic

WLF2 Trailers: Marco Pisapia (ISPRA)

WLF2 Technical Organization (ISPRA)

Communications Manager: Renata Montesanti

Communication Officer: Claudia Delfini

Head of Events Organisation Sector: Silvia Bacchiocchi

Events Organisation Officer: Sabrina Panico

Head of Press Office: Cristina Pacciani

Press officers: Giuliana Bevilacqua, Alessandra Lasco (Italian press), Filippo Pala (foreign press)

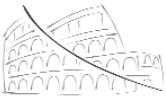
Head of ISPRA Web Information Sector: Lorena Cecchini

ISPRA Web Information Officer: Chiara Bolognini, Fabrizio Felici

Logistics Sector Staff: Anna Aiello, Marina Barberini, Antonella Ceccarelli, Sabrina Farris, Paola Giambanco, Olimpia Girolamo, Nadia Mattozzi, Daria Mazzella, Giovanni Mezi, Sandra Moscone, Micheline Porcarelli, Irene Rotilio, Scarlett Sisti

IT Officer and technicians: Maurizio Amati, Zeno Amicucci, Marco Di Vetta, Emilio Gioiella

Graphic designers: Alessia Marinelli, Elena Porrazzo



Secretariat

ISPRA, Italian Institute for Environmental Protection and Research
Dpt. Geological Survey of Italy, Via Vitaliano Brancati, 48 - 00144 Rome, Italy.
Contact: secretariat@wlf2.org - Website: www.wlf2.org

Press Office

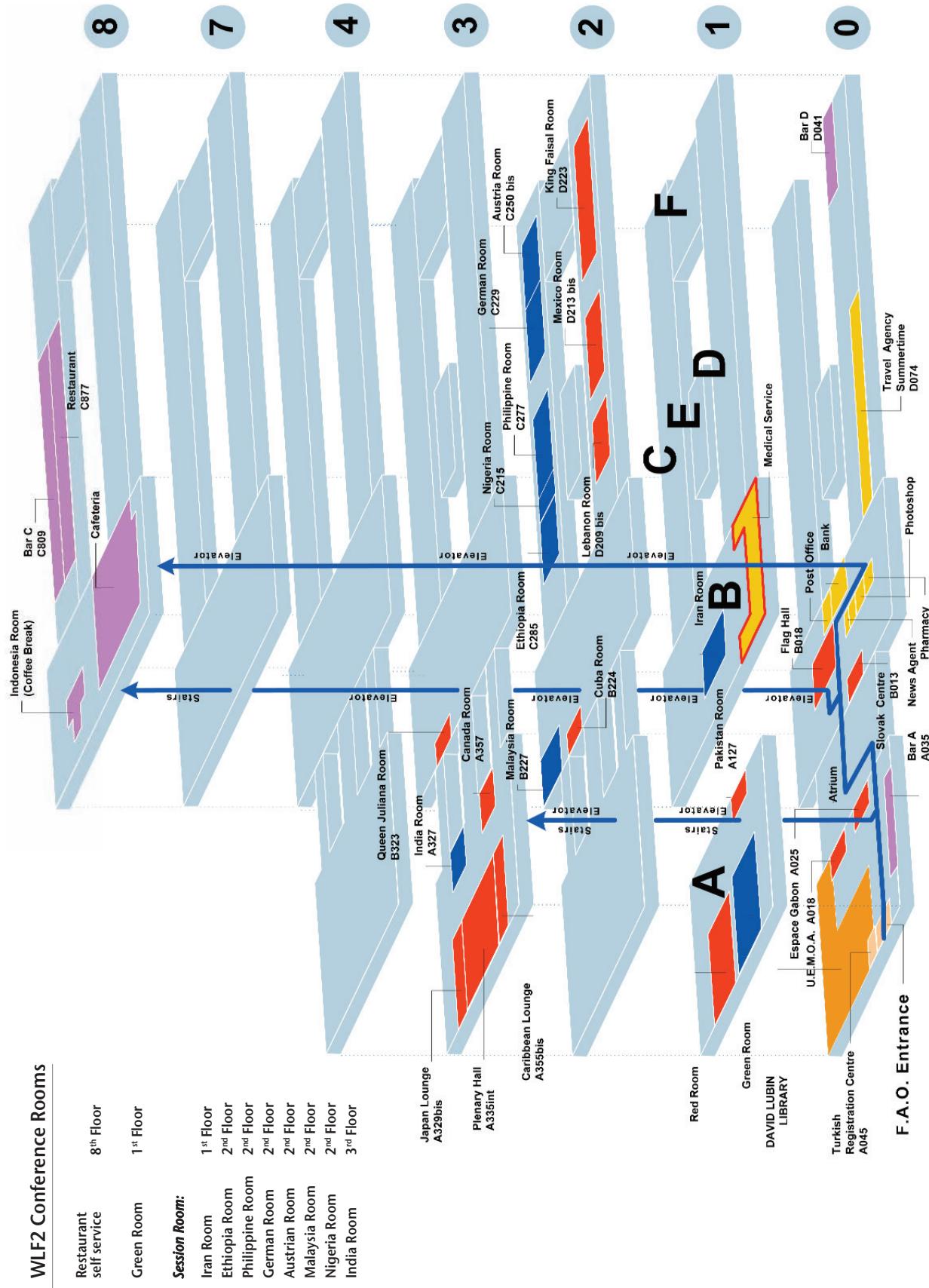
Press Office: +39.0650072394
e-mail: stampa@isprambiente.it

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*)

EXHIBITORS

NHAZCA Srl, SPIN-OFF "SAPIENZA" Università di Roma
Alpine Convention - Permanent Secretariat - Ministry for the Environment, Land and Sea
Regione Emilia-Romagna - Servizio Geologico, Simico e dei Suoli
International Accademy of Environmental Sciences
High Speed Landslides Monitoring
MAE Advanced Geophysics Instruments
Prati Armati Srl
PanGeo
EuroGeoSurveys
Terraferma
IMAGEO CODEVINTEC TERRARSENSE
Seismic Dilatometer Marchetti For Geotechnical Investigation
Maccaferri
CAE SpA
IDS INGEGNERIA DEI SISTEMI
ITT Visual Information Solutions
C.S.G. Srl - Centro Servizi di Geoingegneria
TRE
Leica Geosystems
GEOBRUGG AG
Fondazione Graphitech
yourLIFE
Gexcel, Spin-off dell'Università degli Studi di Brescia
Micromed S.p.A.

WLF2 Conference Rooms



WWW.WLF2.ORG

Sponsors:

