

Kyoji Sassa · Khang Dang · Fausto Guzzetti · Nicola Casagli · Binod Tiwari · Matjaž Mikoš · Vit Vilimek · Peter Bobrowsky · Kazuo Konagai · Željko Arbanas · Snježana Mihalić Arbanas · Ping Lu · Katsuo Sasahara · Irasema Alcantara-Ayala · Alexander Strom · Michael Hendry · Hiromitsu Yamagishi · Veronica Tofani · Sabatino Cuomo · Faisal Fathani · Jan Klimeš · Fawu Wang · Paola Reichenbach · Candan Gokceoglu · Daisuke Higaki · Tomofumi Koyama

Invited and accepted speakers of the Fifth World Landslide Forum in Kyoto, 2020

The International Consortium on Landslides (ICL) and the Global Promotion Committee of the International Programme on Landslides (GPC/IPL) invite all active landslide researchers, engineers, and practitioners to join the 5th World Landslide Forum (WLF5) on November 2–6, 2020, in Kyoto, Japan. One of the major outcomes of the WLF5 is to establish the **Kyoto 2020 Commitment** for Global Promotion of Understanding and Reducing Landslide Disaster Risk (KC2020) to develop the ISDR-ICL Sendai Partnerships 2015–2025 to a medium- and long-term global alliance. The organizers requested the theme and session coordinators of the WLF5 to invite potential speakers who will be able to write acceptable papers and will also assure to attend the WLF5. The list of invited speakers who were invited by the coordinators and have accepted the invitation by 15 December 2018 is shown in the Table 1.

The organizing committee of the WLF5 is now calling for active speakers in the WLF5 and requesting to fill out the Preliminary Registration Form available in the WLF5 webpage. Individual theme coordinators will contact the preliminary registered speakers (PRS), or PRS may contact one of the theme coordinators (authors of this article) and/ or the WLF5 secretariat (wlf5-sec@iclhq.org).

WLF5 is calling for sponsors supporting participants from developing countries. Potential speakers and potential sponsors are requested to access and fill out the forms available in the webpage (<http://wlf5.iplhq.org/preliminary-registration/>).

Call for ICL members and partners of KC2020

The final draft of KC2020 was approved and adopted in 2018 ICL-IPL Kyoto Conference. ICL is sending the invitation to potential organizations to join KC2020. Invited organizations include ICL members (ICL full members, ICL associates, and ICL supporters), ICL supporting organizations, partners of the Sendai Partnerships 2015–2025, and governments which support ICL members in their countries.

In order to promote KC2020, ICL has established the ICL associates as a new ICL membership category. Its membership fee is 20% of ICL full member membership fee, i.e., 100 USD (low-income countries), 200 USD (lower middle-income countries), 400 USD (upper middle-income countries), and 600 USD (high-income countries) in 2018. Sixteen associates joined ICL in 2018. ICL has decided to create a new category of ICL supporting organizations in 2018 ICL-IPL Kyoto Conference. The ICL supporting organization was established by the 2006 Tokyo Action Plan to promote the International Programme on Landslides. ICL had exchanged MOU with each of seven global stakeholders (UNESCO, WMO, FAO, UNISDR, UNU, ISC, WFEO) to promote the Action Plan in 2016. Those were the initial ICL supporting organizations. ICL wishes to invite other organizations who can also contribute to the KC2020 as ICL supporting organization by establishing an official cooperation status. An invited speaker of WLF5 is requested to promote his/her organization to one of ICL associates or ICL supporting organizations as well as ICL full members and ICL supporters for the establishment and further development of KC2020 for reducing landslide disaster risk.

Table 1 List of invited speakers of WLF5, who confirmed to contribute their papers in the WLF5

Invited speakers	Office	Country	Tentative title
Theme 1. Sendai Partnerships and Kyoto 2020 Commitment (coordinators: Kyoji Sassa, Željko Arbanas, Khang Dang)			
<i>5.1.1 ISDR-ICL Sendai Partnerships and Kyoto 2020 Commitment</i> (coordinators: Kyoji Sassa, Badaoui Rouhban, Željko Arbanas)			
Kyoji Sassa	ICL	Japan	Kyoto 2020 Commitment
Peter Bobrowsky	Geological Survey of Canada	Canada	International Consortium on Landslides (ICL)- Membership and Management
Qunli Han	Integrated Research on Disaster Risk (IRDR)	China	International Programme on Landslides (IPL)- Membership and Management
Željko Arbanas	University of Rijeka	Croatia	Landslides: Journal of International Consortium on Landslides-Editorial management
Kaoru Takara	Kyoto University	Japan	UNESCO/KU/ICL UNITWIN Cooperation Programme-Members and recent activities.
Dwikorita Karnawati	BMKG	Indonesia	The Role and Challenges of BMKG of Indonesia in Landslide Disaster Risk Reduction
Wardatun A. Abdul Manan	Public Works Department of Malaysia	Malaysia	Slope Inventories Data Collection: Recent Advances

Table 1 (continued)

Invited speakers	Office	Country	Tentative title
<i>S1.2 International Programme on Landslides (IPL Projects, WCoEs), ICL networks and other ICL activities (coordinators: Qunli Han, Kyoji Sassa, Matjaž Mikoš, Khang Dang)</i>			
Alexander Strom	JSC “Hydroproject Institute”	Russia	IPL- 106-2 and WCoE - the Kokomeren Summer School on Rockslides and database of large-scale rockslides -
Leonardo Cascini	University of Salerno	Italy	The educational activities of LARAM School
Haleem Zaman Magsi	Karakoram International University	Pakistan	Seismotectonic Zoning of Landslides of Northern Areas of Pakistan
Suhaimi Jamaludin	Public Works Department of Malaysia	Malaysia	Slope Inventories Data Collection: Recent Advances
Chang-dong Li	China University of Geosciences (Wuhan)	China	Control measures for road landslides in a large reservoir
Claudio Margottini	ISPRA	Italy	Landslide risk analysis and mitigation measures for the monasteries of Georgia
Binod Tiwari	California State University	USA	Failure time prediction of rainfall induced shallow landslides based on suction induced shear strength-
A A Virajh Dias	Central Engineering Consultancy Bureau	Sri Lanka	lessons learned on stability vs failure of road cut slopes
Thirugnanam Hemalatha	Amrita Vishwa Vidyapeetham	India	Community resilience building through integrated landslide warning system in Himalayas & Western Ghats-
<i>S1.3 Landslide-induced tsunamis (coordinators: Kyoji Sassa, Shinji Sassa, Tso-Ren Wu)</i>			
Kyoji Sassa	ICL	Japan	Objectives of the Special Session “Landslide-induced tsunamis” for the World Tsunami Awareness Day
Shinji Sassa	Port and Airport Research Institute	Japan	Session coordinator (Outline of the Session)
Fumihiko Imamura	IRIDeS, Tohoku University	Japan	Commentator (Comments from Tsunami Engineering)
Dwikorita Karnawati	BMKG	Indonesia	2018 Landslide-induced tsunami in the Krakatau volcano and landslide induced liquefaction and tsunami in Palu
Behzad Ataie-Ashtiani	Sharif University of Technology	Iran	Numerical modeling of subaerial and submarine landslide-generated tsunami waves
Giorgio Bellotti	Roma Tre University	Italy	Laboratory modelling of tsunamis generated by landslides
Jan Blahut	Czech Academy of Sciences	Czech republic	History of San Andrés megalandslide and its tsunamigenic potential
Francesco Bregoli	IHE Delft Institute	Netherlands	On the energy transfer from 3D granular landslide to water body explained by an experimentally-based numerical-
Hermann M. Fritz	Georgia Institute of Technology	USA	Granular landslides generated tsunamis on planar coasts and conical islands
Dave Gauthier	BGC Engineering Inc	Canada	Tsunamigenic landslide in Greenland
Stephan T. Grilli	University of Rhode Island	USA	Coastal Tsunami hazard assessment from submarine landslides
Valentin Heller	University of Nottingham	UK	Landslide-tsunami propagation in different water body geometries
Finn Løvholt	Norwegian Geotechnical Institute	Norway	Tsunami uncertainty due to landslide dynamics
Shiva P. Pudasaini	University of Bonn	Germany	The mechanics of multi-phase submarine landslide and the tsunami dynamics
Yavari Ramsheh Saeedeh	Sharif University of Technology	Iran	Tsunami events of the Indian Ocean - role of landslides
Kyoji Sassa	ICL	Japan	Simulation of Tsunami waves induced by coastal and submarine landslides in Japan
Takashi Nakata	Hiroshima University	Japan	Distribution of submarine landslides around the Japan archipelago by details DEM image analysis
Uri S. Ten Brink	U.S. Geological Survey	USA	Size distribution of submarine landslides and assessment of tsunami hazard to the U.S. Atlantic and Gulf Coasts
David Tappin	British Geological Survey	UK	The continuing underestimated tsunami hazard from submarine landslides

Table 1 (continued)

Invited speakers	Office	Country	Tentative title
Jia-wen Zhou	Sichuan University	China	Landslide-generated surge in the hydropower reservoir at the Southwest China
Do Minh Duc	VNU University of Science, Hanoi	Vietnam	Analysis and modeling of a landslide-induced tsunami-like wave across the Truong river in Quang Nam province, VN
Tso-Ren Wu	National Central University	Chinese Taipei	Three-Dimensional Simulation on the Rockslide and Mudslide Generated Tsunamis
Kuo-Fong Ma	National Central University	Chinese Taipei	Probability Tsunami Hazard Analysis of Taiwan, including earthquake induced submarine landslides
Cheng-Hsien Lee	Tamkang University	Chinese Taipei	Multi-phase simulation of submarine granular landslides
Guan-Yu Chen	National Sun Yat-sen University	Chinese Taipei	Application of flow Green's function in landslide tsunami
Wahyu Widiyanto	National Cheng Kung University	Chinese Taipei	Simulation on the 2018 Sulawesi Submarine Landslide Tsunami
Jing-Yi Lin	National Central University	Chinese Taipei	Shear-wave velocity of marine sediments offshore Taiwan using ambient seismic noise
<i>S1.4 Landslides and hazard assessment at UNESCO designated sites (coordinators: Soichiro Yasukawa, Qunli Han, Irina Pavlova, Clüsener-Godt Miguel)</i>			
Kyoji Sassa	ICL	Japan	Landslides in the Unzen Global Geopark (Japan) and in the Machu Pichu World Heritage (Peru)
Clüsener-Godt Miguel	UNESCO	France	Natural UNESCO sites programmes: Man and the Biosphere Programme and International Geoscience and-
Soichiro Yasukawa	UNESCO	France	Overview on landslides disaster risk reduction at UNESCO designated sites
Irina Pavlova	UNESCO	France	Overview on landslides disaster risk reduction at UNESCO designated sites
Qunli Han	Integrated Research on Disaster Risk (IRDR)	China	Integrating DRR into the conservation and management mechanisms of the internationally designated sites -
Daniele Spizzichino	ISPRA	Italy	Landslides assessment of World Heritage sites in Europe
Daria Shubina	Russian State Geological Prospecting University	Russia	Methodology of landslide danger assessment within historical natural-technical systems
Petra Omega	Krida Wacana Christian University	Indonesia	Disaster Risk Reduction on the Mount Rinjani National Park as Universal Global Geopark
Charalampos Fassoulas	University of Crete	Greece	Landslide disaster management: community based approaches
Vincent Jomelli	Laboratory of Physical Geography, CNRS	France	Landslides risk assessment at UNESCO designated sites: from research to practice
Dixon Amod		Nepal	Landslides in UNESCO sites in Nepal
Elshayeb Yasser	Cairo University	Egypt	Landslides and hazard assessment inside and around some Egyptian Cultural heritage Monuments
<i>S1.5 Landslide-risk management from an integrated watershed management perspective (coordinators: Yuka Makino, Thomas Hofer)</i>			
Hiroto Mitsugi	FAO	FAO	Our work on sustainable mountain development
Yuka Makino	FAO	FAO	Guidance paper on how to integrate risk into watershed management
Thomas Hofer	FAO	FAO	Provide examples of our work in the field such as Nepal
<i>S1.6 Multi-hazard early warning systems (MHEWS) (coordinators: Cyrille Honoré, Jochen Luther, Paul Pilon, Dwikorita Karnawati)</i>			
Agje Wandala	BMKG	Indonesia	Multi Hazard Early Warning System in Indonesia and Pacific Island Countries
Weniza	Ina TEWS, BMKG	Indonesia	Indonesian Tsunami Hazard Early Warning System; the Challenge and Innovations
<i>S1.7 Integrated research on landslide disaster risk: present and future (coordinators: Irasema Alcantara Ayala, Qunli Han, Sálvano Briceño, Riyanti Djalante, Kaoru Takara)</i>			
Tommaso Carlà	University of Florence	Italy	Improving the ability to anticipate geo-mechanical failure and set up corresponding alarms through slope monitoring-

Table 1 (continued)

Invited speakers	Office	Country	Tentative title
Giuseppe Esposito	IRPI, CNR	Italy	Landslide hazard and risk assessment for civil protection early response
Giuseppe Formetta	Centre for Ecology & Hydrology	UK	Methods and Models for landslides early warning
Luciano Fazio Nunzio	CNR IRPI Bari	Italy	Three-Dimensional numerical modelling of slow moving landslides
Guglielmo Grechi	University of Rome La Sapienza	Italy	Non-linear strain effects induced by temperature fluctuations on jointed rock masses
Kristine T. Jarsve	University of Oslo	Norway	Uncertainties of Simulating Rockfalls and Debris Flows Using RAMMS
Lorenzo Solari	Department of Earth Sciences, University of Florence	Italy	Regional scale landslide monitoring based on Sentinel-1 data, examples from Italy
Gennaro Spolverino	University of Calabria	Italy	Process analysis in soil unsaturated hydraulic, potentially unstable, by physical scale-model
Judith Uwihirwe	Delft University of Technology	Netherlands	Developing an EWS for Northwestern Rwanda
Alexandra Urgilez	Delft University of Technology	Netherlands	Understanding and modelling deep seated landslides near hydropower reservoirs in Ecuador
Irasema Alcántara - Ayala	National Autonomous University of Mexico	Mexico	Forensic Investigations of Disasters
Pedro Higgins	Environmental Secretary of Nova Friburgo	Brazil	Integrated Management of Landslide Risks in the municipality of Nova Friburgo, Brazil
Theme 2. Landslide hazard and vulnerability mapping and zonation (coordinators: Fausto Guzzetti, Snježana Mihalić Arbanas, Hiromitsu Yamagishi, Paola Reichenbach)			
<i>S2.1 Landslide recognition and mapping (coordinators: Alessandro Cesare Mondini, Shou-Hao Chiang, Hitoshi Saito, Has Baator, Hiromitsu Yamagishi)</i>			
Toyohiko Miyagi	Tohoku Gakuin University	Japan	Landslide Topography Mapping for Slope Disaster Reduction in the Humid Tropical Region
Hiroshi Yagi	Yamagata University	Japan	Susceptibility evaluation of slope deformations using optical and radar satellite images for Jure heavy-rainfall-
William Schulz	United States Geological Survey	USA	Use of InSAR at multiple spatial and temporal scales to reveal landsliding mechanisms
Alessandro C. Mondini	IRPI, CNR	Italy	Landslide mapping using SAR images: pros, cons and future challenges
Claire Dashwood	British Geological Survey	UK	The challenges associated with national scale landslide mapping: from inventories to susceptibility
Ryuji Yamada	NIED	Japan	Publication of the Landslide Maps in Japan
<i>S2.2 Landslide hazard assessment and zonation—susceptibility modeling (coordinators: Marko Komac, Do Jie, Meei-Ling Lin, Hyuck-Jin Park, Paola Reichenbach)</i>			
Biswajeet Pradhan	Centre for Advanced Modelling and Geospatial Information Systems	Australia / Malaysia	Some technical misconceptions in spatial landslide hazard modelling
Dieu Tien Bui	University of South-Eastern Norway	Norway	Advanced Machine Learning and Deep Learning for spatial prediction of landslide hazards
Luigi Lombardo	ITC, University of Twente	Netherlands	Space-time landslide intensity modeling. A case study from the Collazzone area (Italy)
Wang Wei-Dong	Central South University	China	Comprehensive Assessment of Geological Hazard Safety along Railway using Deep learning Models: a case study-
Zheng Han	Central South University	China	Simulation of landslide behavior using the HBP rheological model based SPH method
Paolo Tarolli	University of Padova	Italy	Landslides in steep-slope agricultural landscapes
Chong Xu	Institute of Geology, CEA	China	Three phases of earthquake-triggered landslide spatial prediction for emergency rescue, resettlement
Jie Dou	Public Works Research Institute (PWRI)	Japan	Evaluating Ensemble Machine Learning for Landslide assessment in a Mountainous Watershed

Table 1 (continued)

Invited speakers	Office	Country	Tentative title
Weile Li	Chengdu University of Technology	China	Deformation History Analysis of Large Landslides Using RS Technologies
Yunus Ali Pulpadan	Chengdu University of Technology	China	Improvements to global model of coseismic landslide susceptibility analysis: Insights from Hokkaido Eastern-
Taskin Kavzoglu	Gebze Technical University	Turkey	Modelling of Landslide Susceptibility in Black Sea region of Turkey Using Machine Learning-
Abdelaziz Merghadi	Larbi Tebessi University	Algeria	A practical Guide Towards Automating Landslide Susceptibility Mapping using Machine Learning-
Cees Van Westen	University of Twente, ITC	Netherlands	Changing landslide hazards after major disasters, and implications for planning
<i>S2.3 Landslide hazard assessment and zonation—temporal and size modelling (coordinators: Oded Katz, Mauro Rossi, Matthias Vanmaercke, Fausto Guzzetti)</i>			
Farrokh Nadim	Norwegian Geotechnical Institute	Norway	Theoretical framework for estimating the annual probability of occurrence of landslides
Aykut Akgün	Karadeniz Technical University	Turkey	Magnitude and temporal characteristics of the rainfall induced shallow landslides at Eastern-
Rex Baum	United States Geological Survey	USA	Quantifying and reducing uncertainty in assessment of rainfall-induced landslides
Michele Calvello	University of Salerno	Italy	Real-time landslide hazard assessment for regional warning
Arnaud Temme	Kansas State University	USA	Landslide path dependency
Olivier Dewitte	Royal Museum for Central Africa	Belgium	Landslide timing in the data-scarce Kivu Rift
<i>S2.4 Landslide data and information for disaster mitigation (coordinators: Helen Reeves, Elias Garcia-Urquia, Dalia Kirschbaum, Shantanu Sarkar, Snježana Mihalić Arbanas)</i>			
Marko Komac	University of Ljubljana	Slovenia	Why should data be publicly (and freely?) available for an efficient disaster risk management
Gerardo Herrera Garcia	Instituto Geológico y Minero de España	Spain	Landslide impact in Europe. A review by the Geological Surveys
Andreas Günther	Federal Institute for Geosciences and Natural Resources	Germany	European Landslide Susceptibility Map (ELSUS): Developments and Perspectives
Adolfo Quesada-Román	Uni. of Geneva/Uni. of Costa Rica	Costa Rica	Landslide hazard and dynamics in Costa Rica
Aristizábal Edier	National University of Colombia	Colombia	Landslide susceptibility in the tropical scarce-data region of the Colombian Andes
José Alexander Chávez	Urban Planning Office of the San Salvador Metropolitan Area	El Salvador	Slope behavior improvement of partially-saturated piroclasts
Elias Garcia-Urquia	National Autonomous University of Honduras	Honduras	Effect of lack of rainfall and landslide data on thresholds for early warning systems
Jorge Antonio Paz Tenorio	University of Sciences and Arts of Chiapas	Mexico	Cartography of susceptibility to landslides and analysis of vulnerabilities
Kuntala Bhusan	North Eastern Space Applications Centre	India	Landslide scenario in North East India and associated challenges
Tapas Ranjan Martha	National Remote Sensing Centre, Indian Space Research Organisation	India	Geospatial landslide inventory database of India for decision makers
Shantanu Sarkar	CSIR-Central Building Research Institute	India	Engineering geology and slope stability for landslide disaster mitigation
Nick Rosser	Durham University	UK	Assessing the evolution of post-earthquake landslide hazard: the 2015 Gorkha EQ, Nepal
Benjamin Mirus	U.S. Geological Survey	USA	Assessing landslide susceptibility and occurrence across the United States
Dalia Kirschbaum	NASA Goddard Space Flight Center	USA	Multi-scale characterization of landslide hazard and risk using remote sensing data

Table 1 (continued)

Invited speakers	Office	Country	Tentative title
<i>S2.5 Landslide vulnerability of people, communities, and the built environment (coordinators: Dario Peduto, Olga Mavrouli, Mike G. Winter, Paola Salvati)</i>			
David Alexander	University College London	UK	A Civil Protection Approach to Landslide Disasters
Settimio Ferlisi	University of Salerno	Italy	Consequence scenarios in urban areas exposed to rainfall-induced slope instabilities
Stavroula Fotopoulou	Aristotle University of Thessaloniki	Greece	Towards a probabilistic performance-based methodology for the vulnerability assessment of buildings subjected to-
Renato Macciotta	University of Alberta	Canada	Transportation infrastructure vulnerability to landslides in Western Canada
Olga Mavrouli	University of Twente	Netherlands	Damage and vulnerability of buildings to rockfalls and landslides using analytical models
Maria Papathoma - Köhle	Uni. of Natural Resources and Life Sciences	Austria	Physical vulnerability of buildings to debris flow-state of the art and future challenges
Dario Peduto	University of Salerno	Italy	Innovation in forecasting landslide consequences
Paola Salvati	IRPI, CNR	Italy	People vulnerability to landslide: risky behavior or fatality?
Sotiris Argyroudis	University of Surrey	UK/Greece	Vulnerability of transportation infrastructure exposed to earthquake-induced landslides: experiences from Greece
Mike Winter	Transport Research Laboratory (TRL)	UK	Quantitative Risk Assessment of Potential Fatalities Amongst Road Users from Debris Flow Events
Yasser Elshayeb	Cairo University	Egypt	Landslide Risk Zonation using Rock Engineering Systems in selected areas of Greater Cairo region – Egypt
Munawar	BMKG	Indonesia	Rain-Induced Landslide Hazard Zone in West Java Province
P.V I P. Perera	Central Engineering Consultancy Bureau	Sri Lanka	Effect of root systems in natural slope erosion protection
Theme 3. Monitoring and early warning (coordinators: Nicola Casagli, Ping Lu, Veronica Tofani)			
<i>S3.1 Landslide early warning systems (coordinators: Thomas Glade, Michele Calvello)</i>			
Giovanni Crosta	University of Milano Bicocca	Italy	Experiences on thresholds definition for managing landslide early warning systems
Anna Scolobig	ETH Zurich	Switzerland	Landslide warning communication: challenges and prospects
Graziella Devoli	Norwegian Water Resources and Energy Directorate	Norway	Five years of forecasting landslides in Norway
Manfred Stähli	Swiss Federal Research Institute WSL	Switzerland	The value of soil moisture measurements for regional landslide Early Warning Systems
Teuku Faisal Fathani	Gadjah Mada University	Indonesia	Recent progress on the implementation of community-based landslide EWS
<i>S3.2 Monitoring and time-prediction methods (coordinators: Katsuo Sasahara, Taro Uchimura)</i>			
Qiang Xu	Chengdu University of Technology	China	A success early warning case of the large scale of Hefantai landslide in Gansu province based on acceleration creep-
Chaminda Gallage	Queensland University of Technology, Brisbane	Australia	Case study: Use of real-time monitoring to estimate the time of failure of a slope in Maleny
Zongji Yang	Institute of Mountain Hazards and Environment	China	Prediction of landslide mass remobilization based on the monitoring of soil water in the slope
Taro Uchimura	Saitama University	Japan	Monitoring of slope deformation and seepage by elastic wave velocities
Lin Wang	Chuo Kaihatsu Corporation	Japan	An EWS of unstable slopes by multi point MEMS tilting sensors and water contents
Katsuo Sasahara	Kochi University	Japan	Prediction of displacement rate of sandy model slope based on the monitoring of deformation
Naoki Iwata	Chuden Engineering Consultants Co.,LTD.	Japan	Influence of measuring time and displacement intervals in predicting a failure time of slope

Table 1 (continued)

Invited speakers	Office	Country	Tentative title
<i>S3.3 Regional landslide forecasting models (coordinators: Veronica Tofani, Xuanmei Fan, Cees Van Westen)</i>			
Rex Baum	United States Geological Survey	USA	A comparison of approaches for regional debris-flow forecast models
Hyuck-Jin Park	Sejong University	Korea	Probabilistic modelling of uncertainties in physically based landslide susceptibility assessment
Veronica Tofani	University of Florence	Italy	Physically based modeling to forecast shallow landslides at regional scale, applications in Italy
<i>S3.4 Remote sensing for landslide-risk mitigation (coordinators: Lu Ping, Filippo Catani, Andre Stumpf)</i>			
Liao Mingsheng	Wuhan University	China	Mapping and monitoring surface displacements in mountainous area of Southwestern China by Coherent Scatterers InSAR analyses
Oriol Monserrat	Centre Tecnologic de Telecom. de Catalunya	Spain	Sentinel-1 as a tool to support early warning systems: the experience of U-Geohaz project
Filippo Catani	University of Florence	Italy	Landslide monitoring and forecasting by remote sensing and numerical models
<i>S3.5 Technologies for monitoring and surveillance (coordinators: Andrea Segalini, Renato Macciotta)</i>			
Andrea Carri	ASE S.r.l.	Italy	Remote geotechnical monitoring in the IoT era
Giacomo Falorni	TRE Canada	Canada	Satellite InSAR for landslide monitoring: new trends and new capabilities
Helen Reeves	British Geological Survey	UK	Continuous moisture content monitoring through ERT
Maria Migliazza	Politecnico di Torino	Italy	No-contact surveys and acoustic emission as monitoring tools of rock slopes subjected to rock slopes subjected to-
Matthew Lato	BGC Engineering Inc.	Canada	Advances in 4D remote sensing for landslide mapping and risk assessment
Neil Dixon	Loughborough University	UK	Protecting communities using an acoustic emission landslide early warning system: Case studies in low and-
Rémi Usquin	Ophelia	France	Manufacturers of the Geocube system, cost effective, high-precision GPS network
Lisa Borgatti	Alma Mater Studiorum Università di Bologna	Italy	Monitoring rock spreading processes in the San Leo north face (northern Apennines, Italy)
Paolo Mazzanti	University of Rome La Sapienza	Italy	Landslides monitoring along transportation corridors for geotechnical asset management
Ko-Fei Liu	National Taiwan University	Chinese Taipei	Debris flow detection with CCD
Theme 4. Testing, modeling, and risk assessment (coordinators: Binod Tiwari, Katsuo Sasahara, Sabatino Cuomo)			
<i>S4.1 Recent development in physical and numerical modeling of landslides (coordinators: Binod Tiwari, Katsuo Sasahara, Sabatino Cuomo)</i>			
Andrea Segalini	University of Parma	Italy	Numerical modeling of Baveno landslide: determination of triggering causes and alert thresholds
Martin Mergili	BOKU University, Vienna	Austria	Advanced methods for simulating complex landslides
Emmanouil Fleris	Vienna University of Technology	Austria	Modeling of rockfall processes by means of a stochastic numerical approach in 2D and 3D
Binod Tiwari	California State University, Fullerton	USA	Influence of wildfire in changing physical properties of slopes and triggering mass movement
Clarence E. Choi	The University of Hong Kong	Hong Kong	Debris flows impacting against barriers
Anthony Leung	Hong Kong University of Science and Technology	Hong Kong	Innovative use of thermo-active pile row in unsaturated soil slope
Jordan Aaron	ETH Zurich	Switzerland	Numerical analysis of the stability and runout of a toppling rock slope
Wen-Yi Hung	National Central University	Chinese Taipei	Centrifuge Modeling on Slope Failure Behaviors Caused by Gravity, Earthquake and Rainfall
Wen-Chao Huang	National Central University	Chinese Taipei	Rock slope simulation employing centrifuge and DEM modeling
Nobutaka Hiraoka	National Institute of Occupational Safety & Health	Japan	Study on Slope Failure due to Groundwater during Excavation using Centrifuge model

Table 1 (continued)

Invited speakers	Office	Country	Tentative title
Giovanna Capparelli	University of Calabria	Italy	Physical Modeling of hydrologic behavior of landslide-prone unsaturated soils
Irene Manzella	University of Plymouth	UK	Granular flow experiments and mobility of large mass flows
Kumari Weerasinghe	Central Engineering Consultancy Bureau	Sri Lanka	Deformities & Dynamics of Long-Travel Landslides in SL
Sérgio Lourenço	The University of Hong Kong	Hong Kong SAR	Recent developments in particle morphology characterization
Qiuhua Liang	Loughborough University	UK	High-performance simulation of landslide dynamics
<i>S4.2 Recent development in soil and rock-testing techniques, application and analysis methods (coordinators: Beena Ajmera, Netra Prakash Bhandary, A.A. Virajh Dias)</i>			
Beena Ajmera	North Dakota State University	USA	Simplest Methods of determining dynamic soil properties for use in coseismic seismic hazard analysis
Mariagiovanna Moscariello	University of Salerno	Italy	Simple shear tests of loose unsaturated soils prone to liquefaction
Gyanu Ratna Tuladhar	Kowa Consulting Group	Japan	Strain rate effect on the residual shear strength of clays
Satoshi Goto	University of Yamanashi	Japan	In-situ static and cyclic direct shear behavior of volcanic soil deposits at landslide sites
Mega Lia Istiyanti	University of Yamanashi	Japan	The effects of physical properties and clay minerals on the slip surface of landslides
Bernardo Castellanos	Virginia Tech	USA	Fully Softened and residual shear strength correlations for slope stability
L. K. N. S Kulathilaka	Central Engineering Consultancy Bureau	Sri Lanka	Comparison of strength parameters and soil moduli E50
Daniel VandenBerge	Tennessee Tech University	USA	Advances in the Testing and Analysis of Soil and Rock Slopes in the 21st Century
Netra Prakash Bhandary	Ehime University	Japan	Residual-state ring shear creep tests on clayey materials and development of creep failure model
<i>S4.3 Recent advancements in the methods of slope stability and deformation analyses (coordinators: Ryosuke Uzuoka, Akihiko Wakai, Yu Huang)</i>			
Ryosuke Uzuoka	Kyoto University	Japan	Numerical analysis of a seismic behavior of unsaturated fill slope
Akihiko Wakai	Gunma University	Japan	Numerical simulation of a landslide induced by snow melt water
Yu Huang	Tongji University	China	Seismic resilience assessment of anchored slopes
Jin Sun	The University of Edinburgh	UK	Particle simulation methods for slope stability and flow analysis
Domenico Lombardi	The University of Manchester	UK	A state-dependent procedure for the evaluation of post-liquefaction stability of sand
Zili Dai	Shimane University	Japan	SPH-based numerical modeling of submarine landslide propagation and its generated surge waves
Kuo-Hsin Yang	National Taiwan University	Chinese Taipei	Deformation characteristics of shallow unstable slopes subjected to rainfall
Ching Hung	National Cheng Kung University	Chinese Taipei	Relationship between Arias intensity and the earthquake-induced displacements of slopes
Shuji Moriguchi	Tohoku University	Japan	Correlation analysis of DEM input parameters in slope failure simulations
Mario Martinelli	Deltares	Netherlands	Numerical simulations of landslides: triggering and runout
Hitoshi Nakase	Tokyo Electric Power Services Co., Ltd.	Japan	A study as to accuracy of numerical simulation by simple model using DEM to rock slope collapse
H.M.J.M.K Herath	Central Engineering Consultancy Bureau	Sri Lanka	Geological Significance of Wedge form Rock-Slope Instabilities in Roads Cuts
Chuen-Fa Ni	National Central University	Chinese Taipei	Stochastic modeling of displacement uncertainty for heterogeneous porous media
<i>S4.4 Recent development in disaster-risk assessment (coordinators: Mateja Jemec Aulfic, Ranjan Kumar Dahal, Yasser Elshayeb)</i>			
Ananta Man Singh Pradhan	Pukyong National University	South Korea	Hybrid rainfall thresholds and landslide susceptibility for scenario-based vulnerability and risk assessment in South Korea

Table 1 (continued)

Invited speakers	Office	Country	Tentative title
G L Sivakumar Babu	Indian Institute of Science	India	Multi hazard analysis of landslides- a case study from India
Limin Zhang	Hong Kong University of Science and Technology	Hong Kong	Sliding, erosion and debris flow: which comes first in an extreme storm and how they interact?
Ben Leshchinsky	Oregon State University	USA	Regional Landslide Susceptibility based on Landslide Inventories and Lidar
D.J. Hutchinson	Queen's University	Canada	Modelling the effectiveness of rock slope risk mitigation using game engine physics
D. Bonneau	Queen's University	Canada	Towards managing debris channel risks to infrastructure: Understanding debris processes using remotely sensed data
Mahendra Bikram SHAH	Humanity and Inclusion Nepal	Nepal	Application of Vulnerable Focal Point Network (VFPN)
Kumud Raj Kafle	Kathmandu University	Nepal	Post flood agricultural practice for sustainability
Giuseppe Mandrone	University of Torino	Italy	Wildfire induced debris flow on western alps
Yuki Matsushi	Kyoto University	Japan	Prediction and mitigation of shallow landslides by heavy rainfall based on an hydro-geomorphological approach
Shoji Doshida	National Research Institute of Fire and Disaster	Japan	Evaluation of secondary landslide susceptibility at the moment of the first response
Takashi Okamoto	Forestry and Forest Products Research Institute	Japan	Simplified risk assessment for snowmelt-induced landslides
Takashi Kitazume	Tokyo Electric Power Services Co., Ltd.	Japan	A prototype of real-time hazard map by debris flow simulation using cellular automaton and multi agent system
Taro Uchida	National Inst. for Land & Infrastructure Management	Japan	Risk assessment for deep-seated rapid landslide in Japan
Theme 5. Education and capacity development for risk management and risk governance (coordinators: Matjaz Mikos, Irasema Alcantara-Ayala, Faisal Fathani)			
<i>S5.1 Landslide management experiences at national level (coordinators: Mateja Jemec Auflič, Emanuele Intriери, Francisco Dourado)</i>			
Mateja Jemec Auflič	Geological Survey of Slovenia	Slovenia	On the importance of geological data for landslide risk reduction in Slovenia
Emanuele Intriери	University of Florence	Italy	Communicating hydrogeological risk and warning: guidelines from Italy
Francisco Dourado	Center for Research and Studies on Disasters	Brazil	Landslide risk management in Brasilia
Rosa María Mateos	Geological Survey Spain, IGME, Granada	Spain	Landslides into urban and land-use planning across Europe: a participatory analysis in the framework-
Eleftheria Poyiadji	Institute of Geology and Mineral Exploration	Greece	Landslides in Greece and related legislation: difficulties and potential improvements
Michael Krautblatter	Technische Universität München	Germany	Landslide management experiences in Bavaria
<i>S5.2 Landslide management experiences at local level (coordinators: Jan Klimeš, Hendy Setiawan)</i>			
Jan Klimeš	IRSM CAS	Czechia	Community based landslide risk management in contrasting socio-economic environments
Hendy Setiawan	Gadjah Mada University	Indonesia	Recent progress on the development of digital crowd mapping for landslides in Java Island
Bayes Ahmed	University College London (UCL)	UK	The impact of culture in landslide disaster risk reduction in Bangladesh
Pascal Lacroix	French Research Institute for Development (IRD)	France	Risk management over the Maca slow-moving landslide, Peru
Aline Freitas da Silva	Rio de Janeiro Geological Survey	Brazil	Rio de Janeiro State Landslide Risk Management.
Thirugnanam Hemalatha	Amrita Vishwa Vidyapeetham	India	Challenges and opportunities in landslide early warning system implementation
Vinodini Ramesh Maneesha	Amrita Vishwa Vidyapeetham	India	Lessons learnt in landslide early warning system implementation

Table 1 (continued)

Invited speakers	Office	Country	Tentative title
Hatma Suryatmojo	Gadjah Mada University	Indonesia	Landslide risk reduction for human survivability and environmental sustainability
Ngadisih	Gadjah Mada University	Indonesia	Community-based landslide risk reduction in Merawu watershed, Central Java
Marcos Mendonca	Federal University of Rio de Janeiro	Brazil	Consideration of social vulnerability aspects in landslide risk mapping: the case of Angra dos Reis municipality-
<i>S5.3 Learning to live with landslides (coordinators: Martin Krkač, Gianvito Scaringi, Wahyu Wilopo)</i>			
Gianvito Scaringi	Charles University, Faculty of Science	Czech Republic	Landslide risk education in the university
Wahyu Wilopo	Gadjah Mada University	Indonesia	Community capacity building for landslide disaster by student community service
Tristram Hales	Cardiff University	UK	Adaptive management as an approach to reducing debris flow risk
Elizabeth Holcombe	University of Bristol	UK	Co-producing data and decision support tools to reduce landslide risk in the humid tropics
Surya Parkash	National Institute of Disaster Management	India	Emerging Issues and Innovative Strategies for Landslides Risk Management
Matjaž Mikoš	University of Ljubljana	Slovenia	The ICL journal <i>Landslides</i> - 15 years of capacity building for landslide risk reduction
Dwikorita Karnawati	Gadjah Mada University	Indonesia	Landslide Capacity Development for Millennial Groups
Irasema Alcántara-Ayala	National Autonomous University of Mexico	Mexico	Living with no landslides: the challenge to avoid the new construction of disaster risk.
A.A. Virajh Dias	Central Engineering Consultancy Bureau	Sri Lanka	Effective global communication through e-conferencing
Theme 6. Catastrophic landslides: causes and consequences (coordinators: Vit Vilimek, Alexander Strom, Jan Klimeš)			
<i>S6.1 Landslides and earthquakes (coordinators: Gonghui Wang, Gabriele Scarascia Mugnozza)</i>			
Chris Massey	GNS	New Zealand	Earthquake-induced landscape change – four years after the M W 7.8 14 November 2016 Kaikoura Earthquake, NZ
Salvatore Martino	University of Rome “Sapienza”	Italy	Earthquake-triggered landslides and slope-seismic wave interaction
Paulus P. Rahardjo	Universitas Katolik Parahyangan	Indonesia	Catastrophic Massive Liquefaction Due To 28 September 2018 Palu Donggala Earthquake
Shu-Kun Hsu	National Central University	Chinese Taipei	Flank failure of the volcanic Turtle Island and the submarine landslide in the southernmost Okinawa Trough
Jia-Jyun Dong	National Central University	Chinese Taipei	Submarine landslide: A case study from the southwestern of Taiwan offshore
Niels Hovius	German Centre for Geoscience Research GFZ	Germany	Transient rock damage and landslide hazard after earthquakes
Haleem Zaman Magsi	Karakoram International University	Pakistan	A seismotectonic method in evaluation of slope stability in Gilgit Baltistan
<i>S6.2 Landslides triggered by extreme rainfall and other effects of climate change (coordinators: Luciano Picarelli, Stefano Gariano)</i>			
Luciano Picarelli	University of Campania	Italy	The challenge of extreme weather and climate change on landslide hazard
Stefano Gariano	IRPI, CNR, Perugia	Italy	Prediction and forecasting of rainfall-induced landslides in a changing environment
Hendy Setiawan	Gadjah Mada University	Indonesia	Rainfall-triggered landslides in Central Java, Indonesia: Controlling factors and motion behaviors
Nejan Huvaj	Middle East Technical University	Turkey	Characteristics of rainfall triggered landslides in Turkey and case studies
Fausto Guzzetti	IRPI, CNR, Perugia	Italy	Assessing landslide hazard in a global warming scenario
Guido Rianna	Centro Euro-Mediterraneo sui Cambiamenti Climatici	Italy	Bridging the gap between climate and landslide experts

Table 1 (continued)

Invited speakers	Office	Country	Tentative title
<i>S6.3 Landslide dams and outburst floods (coordinators: Vit Vilimek)</i>			
Vit Vilimek	Charles University	Czech Republic	Landslides as triggers of GLOFs in the Cordillera Blanca, Peru
Stella Moreiras	Nat Sci Tech Res Council	Argentina	How important natural hazards are ruptures of landslides dammed lakes in the Central Andes?
Simon Allen	University of Zurich	Switzerland	Landslide triggering of glacial lake outburst floods under a changing climate: how can science inform disaster risk-
Tomáš Pánek	University of Ostrava	Czech Republic	Giant landslides in the foreland of Patagonian Andes: effects of deglaciation and drawdown of glacial lakes
Nick Roberts	Simon Fraser University	Canada	Landslide triggered waves in the lakes
John Reynolds	Reynolds International Ltd	UK	Slope instabilities and Glacial Lake Outburst Floods: processes, hazard assessment and mitigation
Marcelo Somos-Valenzuela	Universidad de la Frontera	Chile	Landslides triggered by hydroclimatological events in the Chilean Andes
Anja Dufresne	RWTH Aachen Universit	Germany	Landslide dams: differences depending on landslide type and composition
Saeideh Gharehchahi	Texas State University	USA	Mass movement impact susceptibility of glacier lakes: Upper Rhone Watershed, Switzerland
<i>S6.4 Catastrophic large-scale landslides in mountainous regions—mechanisms of emplacement and effects (coordinators: Hans-Balder Havenith, Xuanmei Fan, Anja Dufresne)</i>			
Hans-Balder Havenith	University of Liege	Belgium	Structure and trigger mechanisms (focus on seismic input) of very large rockslides; assessing the potential of dam-
Xuanmei Fan	SKLGP	China	The disaster chain effect of landslides after strong earthquakes
Alexander Strom	Geodynamics Research Center	Russia	Analysis of the Central Asian rockslides' database
Guillermo Avila	National University of Colombia	Colombia	Catastrophic landslides in Colombia: a systematic analysis
Gioachino Roberti	Minerva Intelligence Inc.	Canada	Could glacial retreat-related landslides trigger volcanic eruptions? Insights from Mount Meager volcano, Canada
Kenneth Hewitt	Wilfrid Laurier University	Canada	Interpreting soft sediment deformation in intermontane valley fill tectonized by rockslide-rock avalanches-
S.S. Chandra-Sekaran	Vellore Institute of Technology	India	Geotechnical investigations on mechanism of flow type catastrophic landslides of Western Ghats, India
Renato Lima	Federal University of Paraná	Brazil	Understanding the landslides in the mega disasters of Santa Catarina (2008), Rio de Janeiro (2011) and Paraná (2011)-
Gabriele S. Mugnozza	University La Sapienza	Italy	The role of time-dependent rock mass deformations and landscape evolution rates as predisposing factors for -
Carlo Esposito	University of Rome "La Sapienza"	Italy	Time-dependent deformation and landscape evolution in causing catastrophic rockslides
David Alexander	University College London	UK	The role of landslides in cascading disasters
Andrée Blais-Stevens	Geological Survey of Canada	Canada	Historical landslides that have resulted in fatalities in Canada (1771–2020)
Theme 7. Frontiers of landslide science and innovative practices (coordinators: Peter Bobrowsky, Michael Hendry, Fawu Wang)			
<i>S7.1 Climate and global change in landslide hazard and risk (coordinators: Mike Winter, Tom Dijkstra, Janisz Wasowski)</i>			
Mike Winter	Transport Research Laboratory (TRL)	UK	Temporal landslide hazard and risk changes to road networks in a changing climate and society
Tom Dijkstra	Loughborough University	UK	Impacts of climate change on geotechnical transport infrastructure assets in Europe
Janusz Wasowski	IRPI, CNR	Italy	Critical appraisal of land use versus climate change effects on landslide incidence in Italy
Xingmin Meng	Lanzhou University	China	Landslide Hazards and Management in a changing climate in the Bailong River Corridor, China

Table 1 (continued)

Invited speakers	Office	Country	Tentative title
Ken Ho	Geotechnical Engineering Office, CEDD	Hong Kong SAR	Enhancing resilience against impact of climate change on slope safety
<i>S7.2 Environmental change and landslides in cold regions (coordinators: Ying Guo, Wei Shan, Marten Geertsema, Marina Leibman)</i>			
Ying Guo	Northeast Forestry University	China	The influence of landslide in permafrost area to the environment
Wei Shan	Northeast Forestry University	China	Environmental and Engineering Geology Problems in Permafrost Degraded Areas of Lesser Khinggan under-
Elena Babkina	Earth Cryosphere Institute TSC SB RAS	Russia	Response of slope process to permafrost warming in the North of West Siberia, Russia
Artem Khomutov	Earth Cryosphere Institute TSC SB RAS	Russia	Mechanisms of cryogenic landslides and landforms under warming, Yamal, Russia
Isakbek Torgoev	Kyrgyz National Academy of Sciences	Kyrgyz	Landslides and rock glaciers in the nival-glacial belt of the Kyrgyz Tien Shan
Huijun Jin	Harbin Institute of Technology	China	Engineering geological environment of permafrost region in NE China under permafrost degradation
Yadong Huang	NIEER,CAS	China	Changing permafrost environment in the Gulian Basin, northern Da Xing'anling Mountains, NE China
Jana Eichel	Karlsruhe Institute of Technology (KIT)	Germany	Biogeomorphic feedbacks between plants and mass movement processes in periglacial environments
Jeffrey Coe	US Geological Survey	USA	Bellwether locations for identifying landslide changes induced by climate change
Guoyu Li	Northwest Institute of Eco-Envi. Resources	China	Rock glacier degradation in Tianshan Moutains, China: a case study.
Bernd Etzemuller	University of Oslo	Norway	Permafrost as an important factor for rock slope instabilities and failures in Norway
Oxana Masyagina	Sukachev Institute of Forest SB RAS	Russia	A comparative study of larch forests in retention and accumulation zones of permafrost landslides in Siberia
<i>S7.3 Innovative practices (coordinators: Fawu Wang)</i>			
Fawu Wang	Shimane University	Japan	A new model to describe rapid and long runout landslide motion
Chong Xu	Institute of Geology, CEA	China	Landslides triggered by the 5 September 2018 Tomakomai Mw6.6 earthquake
Changbao Guo	Institute of Geomechanics, CAGS	China	Reactivation mechanism of Jiangdingya landslide, China
Sandro Moretti	University of Florence	Italy	Large and small scale multi sensors remote sensing for landslide characterization and monitoring
Tonglu Li	Chang'an University	China	Water induced geodisasters in the Chinese Loess Plateau
Fujun Niu	NIEER, CAS	China	The characteristics of slope failures in permafrost regions in the Qinghai-Tibet Plateau
Hufeng Yang	Southwest Jiaotong University	Japan	Will the ancient rock avalanche threat the safety of Sichuan-Tibet Railway in Maoyaba Basin or not?
Shiguo Xiao	Southwest Jiaotong University	China	Analysis model and its application of frame-type stabilizing piles in a deep cut slope
Byung-Gon Chae	KIGAM	Korea	A possible method of landslide early warning based on real-time rainfall data
Ranjan Dahal	Tribhuvan University	Nepal	Parameter setting for the rock fall hazard evaluation and mitigation in central Nepal
Agus Setyo Muntohar	Muhammadiyah University of Yogyakarta	Indonesia	Development of Landslide Early Warning System based on the Rainfall Threshold in Indonesia
Hengxing Lan	IGSNRR, CAS	China	Large landslide precursor analysis
Fuchu Dai	Beijing University of Technology	China	Landslides in southeast Tibetan Plateau
Fikri Faris	Gadjah Mada University	Indonesia	Monitoring infiltration as landslide intermediary process

Table 1 (continued)

Invited speakers	Office	Country	Tentative title
Shengwen Qi	Institute of Geology and Geophysics, Chinese Academy of Sciences	China	Progressive failure of a giant anti-dip slope, A Case from Tibet Region
Xiwei Xu	Institute of Crustal Dynamics, CEA	China	Correlation between surface rupture-associated geological hazards and casualties related to the 2008 Wenchuan-
<i>S7.4 Geosynthetics for slope stabilization (coordinators: Daniele Cazzuffi, Sabatino Cuomo, Junichi Koseki, Akihiko Wakai)</i>			
Daniele Cazzuffi	CESI SpA, Milano	Italy	Introduction
Junichi Koseki	University of Tokyo	Japan	Japanese case histories on use of geosynthetics in reconstructing failed slopes
Nicola Moraci	Mediterranea University	Italy	Key factors to define the design parameters of geosynthetic-reinforced soil structures for landslide-
Sanjay Kumar Shukla	Edith Cowan University, Perth,	Australia	The role of geosynthetic reinforcement in enhancing the stability of man-made and failed soil slopes
Akihiko Wakai	Gunma University	Japan	Stability of MSE walls reinforced with polymeric resin strips
Sabatino Cuomo	University of Salerno	Italy	Reinforced slopes for protection against debris avalanches
Pietro Rimoldi	Maccaferri	Indonesia & Italy	Recent experiences in the use of geosynthetic reinforced soil structures for slope stabilization and landslide-
<i>S7.5 Dating landslide processes (coordinators: Reginald Hermanns)</i>			
Swann Zerathe	University Grenoble	France	Timing of large Pleistocene landslides in the Central Andes and implication for relief evolution
Susan Ivy Ochs	ETH Zurich	Switzerland	Distribution in time and space of huge rock avalanches in the Alps
Marten Geertsema	Department of Forestry	Canada	Challenges with radiocarbon dating landslides – examples from British Columbia
Andrée Blais-Stevens	GSC Ottawa	Canada	Landslide dating using historical and instrumental records
Paula Hilger	Geological Survey of Norway	Norway	The problem of inheritance in dating rockslides with TCN
<i>S7.6 General landslide studies (coordinators: Petr Bobrowsky)</i>			
Duncan Wyllie	Wyllie Norrish Ltd	Canada	Advances in rock slope stability and monitoring
Helen Reeves	British Geological Survey	UK	Real time monitoring using geophysics
Paolo Mazzanti	NHAZCA	Italy	Recent developments in photomonitoring
Reginald Hermanns	Geological Survey of Norway	Norway	Hazard and consequence analyses for rock slope failures
Peter Bobrowsky	Geological Survey of Canada	Canada	The UAV as a tool in landslide studies
David Elwood	University of Saskatchewan	Canada	Pore pressure dynamics in pre-sheared clay shale landslides
Michael Hendry	University of Alberta	Canada	Development of Active landslides and ground hazards into full-scale laboratories: outcomes and benefits
Scott McDougall	University of British Columbia	Canada	Drone-based LiDAR surveying of landslide deposits to characterize runout behavior
Saibal Ghosh	Geological Survey of India	India	Seamless landslide susceptibility mapping on medium scale: A tool used for developing a national landslide-
Theme 8. Specific topics other than Theme 1–7 (coordinators: Kazuo Konagai, Željko Arbanas, WLF5 secretariat)			
<i>S8.1 Landslide-risk reduction along the silk road (coordinators: Peng Cui, Lijun Su)</i>			
Peng Cui	Institute of Mountain Hazards & Environment	China	Risk assessment of Mountain along the Silk Road
Alessandro Pasuto	CNR, IRPI	Italy	Monitoring of deep-seated landslides in Italy
Lijun Su	Institute of Mountain Hazards & Environment	China	Susceptibility of Earthquake-triggered landslides along the Anninghe Fault Belt
Honghu Zhu	Nanjing University	China	Multi-field monitoring and stability analysis of landslide using a distributed fiber optic sensing system
Wei Hu	Chengdu University of Technology	China	Ultra-low friction of large long run-out landslide

Table 1 (continued)

Invited speakers	Office	Country	Tentative title
Jianqi Zhuang	University of Chang An, Xi'an	China	The erosion failure characteristic of the Gully Control and Highland Protection and mitigation with biopolymer in-
Yuanjun Jiang	Institute of Mountain Hazards & Environment	China	experimental and numerical study of dry granular flow impact
<i>S8.2 Recent progress in the landslide initiating science (coordinators: Yifei Cui, Giulia Bossi, Haijun Qiu)</i>			
Yifei Cui	Hong Kong University of Science and Technology	Hong Kong SAR	Investigation of internal erosion of wide grading loose soil – a micromechanics-based study
Giulia Bossi	IRPI, CNR	Italia	Machine learning technique to characterize prior to collapse displacements of landslides
Aiguo Xing	Shanghai Jiao Tong University	China	Characteristic analysis of the Nayong rock avalanche based on the seismic signal
Haijun Qiu	Northwest University	China	Controls on landslide size: insights from field survey data
Chao Kang	University of Alberta	Canada	Numerical simulation of debris flow entrainment: analytical model and application
Yao Jiang	Institute of Mountain Hazards and Environment	China	The acoustic emission characteristics and shear behavior during granular shearing
Tao Wang	Institute of Mountain Hazards and Environment	China	Analysis of the magnitude of debris flow in Wenchuan earthquake area, Sichuan Province, China
Shenghua Cui	Chengdu University of Technology	China	An updated initiation model for the earthquake induced Daguangbao landslide
Jiao Wang	Institute of Mountain Hazard and Environment	China	Spatial distribution law of moraine in Parlung Tsang basin, Southeast Tibet, China
Alessandro Leonardi	Politecnico di Torino	Italy	A multiscale paradigm for the simulation of debris flow and countermeasures
CD2 Citizen science for landslides (coordinators: Candan Gokceoglu, Sultan Kocaman, Nejan Huvaj)			
Petley Dave	University of Sheffield	UK	Creating a rapid understanding of landslide disasters through pooling and crowd-sourcing multiple data sources
Candan Gokceoglu	Hacettepe University	Turkey	A new horizon in landslide researches based on CitSci Approach
Sultan Kocaman	Hacettepe University	Turkey	The role of VGI in landslide inventory preparation
Kirschbaum Dalia	NASA	USA	NASA Global Landslide catalog
CD3 International cooperation in landslide disaster/risk reduction (Japan) (coordinators: Daisuke Higaki)			
Daisuke Higaki	Hirosaki University	Japan	Low-cost sustainable measures against the hazards due to gradual erosion processes in Nepal
Song Manh Tran	Okuyama Boring Co., Ltd.	Japan	Activity report of the landslide practical technology group in Vietnam
Tomoharu Iwasaki	Kokusai Kogyo Co., Ltd.	Japan	Technical cooperation project: Landslide adviser for Mauritius
Mukteshwar Gobin	Ministry of Public Infrastructure and Land Transport	Mauritius	Landslide countermeasure works in Chitrakoot, Mauritius
Takeshi Kuwano	Kokusai Kogyo Co., Ltd.	Japan	Landslide prevention in Tegucigalpa, Honduras
Takashi Hara	OYO international corporation	Japan	Road slope disaster management in Bhutan
Fumihiko Yokoo	Kokusai Kogyo Co., Ltd.	Japan	Landslides and erosion control works in the Himalaya mountain range in Uttarakhand, India
Hiroshi Ogawa	Nippon Koei Co., Ltd.	Japan	Landslide mechanism and technical transfer at paleo topographic blockage lake
Akira Doi	Japan Bosai Platform	Japan	Challenging the disaster prevention business with the policy “Investment before disaster will save your -
Yoji Kasahara	Japan Conservation Engineers	Japan	Road slope disaster countermeasure in Sri Lanka

Table 1 (continued)

Invited speakers	Office	Country	Tentative title
CD4 Introduction of landslide mitigation measures of Japan (coordinators: Daisuke Higaki)			
Senro Kuraoka	Nippon Koei Co., Ltd.	Japan	Analysis of relationships between PGA and the inertial force that makes the slope fail during earthquake -
Katsunori Hattori	Godai Kaihatsu Corporation Ltd.	Japan	Consideration of input value and reaching distance in “LS-RAPID”
Toko Takayama	Asia Air Survey Co, Ltd.	Japan	Landslide interpretation and evaluation based on precise visualization method using high resolution geospatial data
Kazunori Hayashi	Okuyama Boring Co., Ltd	Japan	Introduction of the Simplified drilling system for groundwater drainage works
Masayuki Ujihara	Nittoc Construction Co., Ltd.	Japan	The Geofiber method – Protecting slopes with environment-conscious continuous fiber reinforced soil
Shinji Utsuki	Hazama Ando Corporation	Japan	Case Studies of Catchment well works and Anchor works as countermeasures against landslides at overseas: in -
Risa Tanabe	Toa Grout Kogyo, Co. Ltd.	Japan	Debris Capture Example by Flexible Barrier and Its Performance Verification
Naoto Iwasa	Nippon Steel & Sumikin Metal Products Co.,Ltd.	Japan	Application example on slope stabilization method aimed at environment and landscape conservation and its task
CD5 Activities of landslide-prevention engineers to enhance local capacity for disaster reduction in Japan (coordinators: Katsuo Sasahara)			
Takayuki Mayumi	Japan Conservation Engineers & Co.,Ltd.	Japan	Extraction of subjects for regional disaster risk reduction by teaching materials simulating evacuation behaviors
Kiyomi Nakamura	Japan Conservation Engineers & Co., Ltd	Japan	Community Disaster Management Plan as a method for improving coping capacity of the local community against-
Shunitsu Fujii	Fujii Consulting & Associates	Japan	An easy way to learning rainfall-induced disasters and its prevention using analog modeling
Misako Kamo	Shikoku Geotechnical Consultants Association	Japan	The Workshop Program of disaster prevention learning for primary school children and junior high school students
Chiaki Shimada	The Landslide Society Chubu Branch	Japan	The Workshop Program of disaster education for primary school children and local residents the chubu region in JP
Yuuichi Yamashita	Tekuniko Corporation	Japan	Disaster education for local residents and support for victims
CD7 Impact of large ground deformations near seismic faults on critically important civil-infrastructures (coordinators: Kazuo Konagai)			
John Eidinger	President, G&E Engineering Systems	USA	Landslide impacts on power systems
Alex K Tang	L&T Consulting	Canada	Lessons learned on landslide impacting lifelines
Tara N Bhattarai	Tribhuvan University	Nepal	Reconstruction strategies for landslide-affected settlements
Susumu Nakamura	Nihon University	Japan	Risk assessment of structural damage for rock collision
Katsumi Ebisawa	Central Research Institute of Electric Power Industry	Japan	Current nuclear power plant risk assessment for seismic faulting
Junji Kiyono	Kyoto University	Japan	Seismic performance of pipelines against large soil deformations
CD8 Possibility of slope measurement and monitoring for reduction and mitigation of slope disaster (coordinators: Tomofumi Koyama)			
Jose Alexander Chavez	Planning Office of the Metropolitan Area	El Salvador	Slope behavior improvement of partially-saturated piroclasts in data-scarce regions

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