

The Fifth World Landslide Forum

-Implementing and monitoring the ISDR-ICL Sendai Partnerships 2015–2025- Organization Plan, Themes and Sessions

Date: 2–6 November 2020

Venue: Kyoto International Conference Center, Kyoto, Japan

Organizers:

International Consortium on Landslides (ICL)

Global Promotion Committee of International Programme on Landslides (IPL-GPC), including:

- United Nations Educational, Scientific and Cultural Organization (UNESCO)
- World Meteorological Organization (WMO)
- Food and Agriculture Organization (FAO)
- United Nations Office for Disaster Risk Reduction (UNISDR)
- United Nations University (UNU)
- International Council for Science (ICSU)
- World Federation of Engineering Organizations (WFEO)
- International Union of Geological Sciences (IUGS)
- International Union of Geodesy and Geophysics (IUGG)

Science Council of Japan (SCJ) (process under way)

Kyoto University (KU)

Japan Landslide Society (JLS)

Japanese Geotechnical Society (JGS)

Japan Society for Natural Disaster Science (JSNDS)

WEB of WLF5: <http://wlf5.iplhq.org/>

Outline

The outline for the Fifth World Landslide Forum (WLF5) was examined on 5-6 March 2017 during the ICL steering Committee meeting held in the Disaster Prevention Research Institute, Kyoto University. The outline was published in *Landslides* Vol.14 (3) (Sassa 2017a).

This original outline for WLF5 was examined at the Board of Representative Meeting of ICL (BOR/ICL) and the Global Promotion Committee of the International Programme on Landslides (GPC/IPL) on 29 May 2017 in Ljubljana, Slovenia and a revised plan was approved. The plan was discussed at the high-level panel discussion on the 2017 Ljubljana Declaration as was the Kyoto 2020 Commitment (Sassa 2017b) on 30 May 2017. The plan was then examined by the WLF5 organizing committee on 31 May 2017 during the Fourth World Landslide Forum (WLF4). The plan for the Fifth World Landslide Forum following a series of meeting that took place during WLF4 and was published in *Landslides* Vol.14 (5) Sassa (2017c) at which time a call for session proposals was given to readers of *Landslides*. Sessions for full color books and also sessions for CD-proceedings were proposed and examined at the WLF5 organizing Committee held on 30 November 2017 at the Fontenoy Building of UNESCO, Paris. To accommodate a wide range of participants, three types of publications with different deadlines and different editing processes were decided. This article introduces the organization plan and the seven themes and sessions organized in each theme.

Organization Plan

The plan for the organization of the Fifth World Landslide Forum in Kyoto, 2020 is presented in Fig.1. Notes for the organization plan are as follows.

- 1. Journal thematic issue:** The review process and standards for the thematic issue “ISDR-ICL Sendai Partnerships 2015-2025” is identical to the regular issues of *Landslides*. All topics of papers for the WLF5 are eligible to be submitted to this issue. The Editorial Board of *Landslides* is responsible for reviewing the papers. The thematic issue may be accessed and downloaded free of charge from 15 October to 15 November 2020 (one month only). If a paper is not accepted by the deadline, it may be published in later issues.
- 2. Full color books:** Full color papers for WLF5 should be submitted to the Editorial Manager for WLF5. The submitted papers will be reviewed and edited by the theme coordinators, session editors and cooperating reviewers through the Editorial Manager. The theme coordinators are recognized as the editors of their respective volumes. All accepted papers will be sent to the publisher for publication. After formatting/checking references/figure/photo quality, copy editing and proof-reading, the book will be published in both digital and print formats. If a paper is not accepted by the deadline, it may be published in the CD proceedings.
- 3. CD-Proceedings:** Editors of each session will review, edit and accept/reject each session volume in digital format. All session editors must submit the edited session volume to the WLF5 secretariat before the deadline (end of July 2020). All session volumes will be compiled and published by ICL as one CD book with an ISBN number. The CD book will be submitted to and archived in the National Diet Library of Japan. The book will be distributed to all participants in CD or USB (digital) format.

4. **Registration of speakers:** At least one author of each accepted paper for full color books and CD-Proceedings must register for the WLF5 by the deadline shown in Fig. 1. At least one author of each accepted paper in the thematic issue is invited to register in the WLF5 as an invited lecturer for a longer oral presentation. The speaker of the accepted paper must inform the Secretariat before 1st September 2020 for inclusion in the final programming.
5. **Kyoto 2020 Commitment for Global Promotion of Understanding and Reducing Landslide Disaster Risk:** The commitment aims to develop the ISDR-ICL Sendai Partnerships 2015-2025 as a wider and more stable global framework to mobilize a global alliance which will accelerate and incentivize action for landslide disaster risk reduction to 2025, 2030, and beyond. Parties are invited to join this commitment during the WLF5 organization, and the Inaugural Meeting for the Kyoto 2020 Commitment will be planned for the WLF5. The Commitment is now in process together with identifying the potential signatory parties.

Activities	Month	1-9	10-12	1-3	4-6	7-9	10-12	1-3	4-5	6-7	8-10	WLF5
Publication	Year	2018			2019			2020				
Journal thematic issue	Paper contribution											Invited Lecturers
	Review											
	Publication											
Full color books	Full paper submission											Oral Presentation
	Review (by EM)											
	Publication											
CD-proceedings	Session proposal											Oral Presentation
	Abstract/PPT/Full paper											
	CD-Publication											
Registration	Book/Journal authors											
	CD authors											
	Other participants											
Kyoto 2020 Commitment (KC) to be launched by signatory organizations at WLF5		Zero Draft of KC		Draft and Call for Parties of KC				Signature of KC (Plan)			Inaugural Meeting	

Fig.1 The major timeline of the WLF5 organization.

Themes and Sessions of the Fifth World Landslide Forum

The Fifth World Landslide Forum is being organized under the following seven themes. Theme 1 is a strategic session for the Promotion of the International Consortium on Landslides (ICL), the International Programme on Landslides (IPL), the ISDR-ICL Sendai Partnerships 2015-2025 for Global Promotion of Understanding and Reducing Landslide Disaster Risk and the planned Kyoto 2020 Commitment for Global Promotion of Understanding and Reducing Landslide Disaster Risk. The sessions of Theme 1 include oral presentation of papers for a thematic issue of *Landslides*, full color books, CD-proceedings, and the panel discussion/ the round table discussion without any paper presentation.

Themes 2-7 are thematic sessions for oral presentation of papers to be published in full color books or a thematic issue of *Landslides*. Editorial Manager for full color books of WLF5 will be created and started to accept submission from 1st January 2018. Authors will need to select the appropriate themes and sessions at the time of submission.

Theme 1: Sendai Partnerships and Kyoto 2020 Commitment

Coordinators: Kyoji Sassa <sassa@iclhq.org> and Željko Arbanas <zeljko.arbanas@gradri.uniri.hr>

- ISDR-ICL Sendai Partnerships and Kyoto 2020 Commitment (invited papers)
- International programme on Landslides (IPL Projects, WCoEs) and ICL networks (invited papers)
- Landslide-induced Tsunamis – ICL (Kyoji Sassa), Call for joint organizers.
- Landslides and hazard assessment at UNESCO designated sites – IRDR (Qunli Han), UNESCO (Soichiro Yasukawa) (UNESCO) and ICL (Kyoji Sassa)
- Practical cases contributing to ISDR-ICL Sendai partnerships under process.
- CD-Proceeding sessions including “International cooperation in landslide disaster/risk reduction”, “Landslides in Central Area”, “Early Career Landslide Scientists”, and “Three national initiatives proposed by the Japan Landslide Society” will fit the objectives of Theme 1.

Theme 2: Hazard and vulnerability mapping and zonation

Coordinators: Snježana Mihalić-Arbanas <snjezana.mihalic@oblak.rgn.hr>, Hiromitsu Yamagishi <hiromitsuyamagishi88@gmail.com>, and Fausto Guzzetti <Fausto.Guzzetti@irpi.cnr.it>

- Landslide identification and mapping - Has Baator
- Hazard assessment and zonation -Do Jie, Shantanu Sarkar
- Land-use planning for landslide disaster mitigation -Elias Garcia-Urquia

- Assessing landslide vulnerability to people and the built environment (buildings, roads, infrastructure, systems-- Dario Peduto, Olga Mavrouli, Mike Winter

Theme 3: Monitoring and Early Warning

Coordinators: Nicola Casagli <nicola.casagli@unifi.it> and Ping Lu <luping@tongji.edu.cn>

- Landslide Early Warning Systems - Thomas Glade, Michele Calvello:
- Monitoring and time prediction methods - Katsuo Sasahara, Taro Uchimura
- Regional landslide forecasting models - Veronica Tofani, Xuanmei Fan, Cees van Westen:
- Remote sensing for landslide risk mitigation - Lu Ping, Filippo Catani, Andre Stumpf
- Technologies for monitoring and surveillance - Andrea Segalini, Renato Macciotta

Theme 4: Testing, modeling and risk assessment

Coordinators: Binod Tiwari <btiwari@exchange.fullerton.edu> and Katsuo Sasahara <sasahara@kochi-u.ac.jp>

- Recent Development in Physical and Numerical Modeling of Landslides - Beena Ajmera and Netra Prakash Bhandary
- Recent Development in soil and rock testing techniques, application and analysis methods - Beena Ajmera and A.A. Virajh Dias
- Recent advancements in the methods of slope stability and deformation analyses
- Recent Development in Disaster Risk Assessment - Mateja Jemec Auflic, M.S. Bandara
- Disaster Risk Reduction in Silk Road Area - Cui Peng, Su Lijun

Theme 5: Risk management, risk governance and capacity development at different levels and national practices

Coordinators: Matjaz Mikos <matjaz.mikos@fgg.uni-lj.si>, Irasema Alcantara-Ayala <irasema@igg.unam.mx>, and Faisal Fathani <ffathani@gmail.com>

- Landslide disaster risk management to community.
- Landslide management experiences at national and local levels.
- Capacity development of diverse stakeholders.
- Landslide school, teaching tools and public education.
- Papers by students and young researchers/engineers/officers
(Eligible for Distinguished Young Researcher awards)

Theme 6: Catastrophic landslides: causes and consequences

Coordinators: Alexander Strom <strom.alexandr@yandex.ru> and Vit Vilimek <vit.vilimek@natur.cuni.cz>

- Seismically induced catastrophic landslides – Gonghui Wang
- Giant large-scale landslides in mountainous regions – motion mechanism(s) and effects - Hans-Balder Havenith, Anja Dufresne, Xuanmei Fan, Alexander Strom
- Catastrophic landslides triggered by climatic factors - Luciano Picarelli
- Landslides as triggers of Outburst Floods - Vit Vilimek
- Landslides and reservoirs (process under way)

Theme 7: Frontiers of landslide science and innovative practices

Coordinators: Peter Bobrowsky <peter.bobrowsky@canada.ca> and Michael Hendry <hendry@ualberta.ca>

- Climate and Global Change in Landslide Hazard and Risk - Mike Winter, Tom Dijkstra and Janisz Wasowski
- Landslides in Cold Regions - Ying Guo
- Geosynthetics for Slope Stabilization - Sabatino Cuomo
- Others (process under way)

CD-Proceeding Sessions

CD-Proceeding session proposals will be accepted until the end of December 2019. The following initial CD proceeding sessions were proposed and accepted at the WLF5 organizing committee meeting on 30 November 2017. The organizing committee will discuss its management and the edition of proceedings with the initial proposers of CD-proceedings session. The current plan is; Session proposals will be submitted to the ICL secretariat by the end of December 2019 via email. Abstract/PPT/full paper which are required for the planned session will be submitted to the author submission box of WLF5 WEB by the end of July 2020. Session organizers will review and edit the session volume and upload it to the ready to print box of WLF5 WEB. CD proceedings of WLF5 including all CD session volumes will be produced and published by the end of October 2020.

- International cooperation in landslide disaster/risk reduction
Proposer: Higaki Daisuke (Japan Landslide Society) <dhigaki@hirosaki-u.ac.jp>
- Study of landslides and landslide risk reduction in Central Asia
Proposers: Kristine Tovmashan (UNESCO Cluster Office in Almaty) <k.tovmashan@unesco.org>, Soichiro Yasukawa (UNESCO, Paris) <s.yasukawa@unesco.org>, Alexander Strom <strom.alexandr@yandex.ru>, Oleg Zerkal (Moscow State University) <igzov@mail.ru>
- Early career landslide scientists
Proposers: Giovanna Capparelli <giovanna.capparelli@unical.it> and Irasema Alcántara-Ayala <irasema@igg.unam.mx>
- Introduction to landslide mitigation measures in Japan
Proposer: Higaki Daisuke (Japan Landslide Society) <dhigaki@hirosaki-u.ac.jp>
- Structural and nonstructural countermeasures against landslide disaster implemented by the Japanese Government.
Proposer: Katsuo Sasahara (Japan Landslide Society) <sasahara@kochi-u.ac.jp>
- Activities of landslide prevention engineers to enhance local capacity for disaster reduction in Japan
Proposer: Katsuo Sasahara (Japan Landslide Society) <sasahara@kochi-u.ac.jp>

Call for Session proposals for CD-Proceeding sessions.

Session proposals for CD proceedings are called until the end of December 2019.

6 CD sessions were proposed and accepted. International activities are supported by national activities. National, thematic as well as International sessions are welcome. Networking and linking between the CD session proposal groups are encouraged to strengthen the international cooperation in the landslide disaster/risk reduction. Please download the application form from the WLF5 web and fill and send it to the Secretariat of WLF5 below.

Secretariat for WLF5

Secretariat of the International Consortium on Landslides (ICL)

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IPL WEB: <<http://iplhq.org/>>, ICL WEB: <<http://icl.iplhq.org/>>, WLF5 WEB: <<http://wlf5.iplhq.org/>>

References

Sassa K (2017a) The Fifth World Landslide Forum—implementing and monitoring the ISDR-ICL Sendai Partnerships 2015-2025. *Landslides* 14(3):1282–1288

Sassa K (2017b) The 2017 Ljubljana Declaration on landslide risk reduction and the Kyoto 2020 Commitment for global promotion of understanding and reducing landslide disaster risk. *Landslides* Vol.14 (4): 1289-1296

Sassa K (2017c) The Fifth World Landslide Forum -Implementing and monitoring the ISDR-ICL Sendai Partnerships. *Landslides* Vol.14 (5):1857-1859.