The XIV Congress of the International Association for Engineering Geology and the Environment

XIV IAEG CONGRESS 2023 CHENGDU

Session 8-14

Landslide Dams: Formation, Stability, Breaching and Risk Management

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Brief Introduction of the Session:

Landslide dams induce a range of significant geomorphic hazards, of which catastrophic outburst floods or debris flows following rapid dam-breach bear the highest direct physical impact potential. The breach flood of landslide dams can pose a threat to people and infrastructure hundreds of kilometers downstream. The study of the formation mechanism of landslide dams, stability, along with the characterization of dam-breach processes, is of paramount importance for hazard assessment, and design of risk management, including early warning, mitigation measures and engineering measures. Besides, the impacts of climate change and tectonic movement on landslide dams must be considered and carefully analyzed, as the number of mountain areas prone to these events may increase in future.

Scientists with different backgrounds are studying landslide dams through various methods, such as field investigation, monitoring, laboratory experiments, and numerical simulation. However, quick assessment methods of formation, parameters and potential risks still need to be further improved to provide guidance for mitigation measures. Nowadays, the development of remote sensing technology, monitoring methods and computer technology provide a unique opportunity to study the formation and failure mechanism of landslide dam, as well as to provide more accurate data for risk assessment.

Scientists working in the field of landslide dams are invited to present their recent advancements. This topic will discuss the following issues, but not limited to:

- Field investigation and documentation of landslide dams
- Laboratory experiments, monitoring methods
- Mechanics of landslide dam formation and breaching
- Impact of climate change and tectonic movement on landslide dam activity
- Hazard and risk assessment, early warning, mitigation and engineering measures

IMPORTANT DATES

Abstract for Oral Presentation and Poster Submission Deadline
Jun. 30, 2023

Early Bird Registration Deadline
Aug. 10, 2023

Online Registration Deadline
Sept. 21, 2023

SUBMISSION

For the full-length submission
The submission system is now open for full-length papers. The deadline for submission of full-length paper has been extended to May 31, 2023. Please read the guidelines for paper submittal prior to submitting your full-length paper.
Please read the guidelines prior to submitting your full-length paper or long abstract at https://www.iaeg2023.org/cfp.html

For the abstract submission
The abstract submission system for oral presentations and posters is open! If you would rather prepare an abstract for an oral or poster presentation, rather than submitting a full paper, please submit your abstract for consideration by June 30, 2023.
Please read the guidelines prior to submitting your abstract at https://www.iaeg2023.org/cfa.html

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