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



Session 8-8

Mechanism, Mitigation, and Risk Management of Geohazards Triggered by Extreme Weather Events)

Conveners



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Brief Introduction of the Session:

Across the globe extreme weather events show an increase in magnitude and frequency. Recent examples include a 1000-year rainfall event in Zhengzhou (China) in July 2021; a devastating rainfall-flooding event that hit Germany in July 2021; and a nation-wide flooding event in Pakistan in 2022. Even some arid and semi-arid regions have experienced extreme rainfall events in the recent past. These extreme events have led to numerous casualties and colossal economic losses. Both cause and consequence have strong anthropogenic fingerprints. Climate change drives higher oceanic and atmospheric temperatures which in turn affect the magnitude and frequency of extreme precipitation, and the dimensions of the impact are the result of our interactions with and position in the landscapes that we live in. Unless we significantly alter our management of global processes, these trends are forecasted to continue to rise. The complexities associated with the occurrence and impacts of landslides and debris flows and other forms of rainfall-triggered geohazards drives an increasing need for more interdisciplinary research that introduces new technologies and theories to the study of geohazards, leads to deeper understandings of hazard mechanisms and results in more efficient and appropriate mitigation/management of the hazards and reduction of the associated risk. Challenges from a changing climate and development in people's ability to cope with these contests form a strong incentive for our society to develop better systems for adaptation and resilience. The session welcomes studies or reports of geohazards that were triggered by extreme weather events and changing weather patterns in recent years. We also welcome contributions that cover, but are not limited to, the following aspects;

- New inter-disciplinary approaches to address hazard mechanisms and their impact,
- New technologies and concepts in hazard mitigation and management,
- Innovative solutions for risk reduction, and
- Studies that address increasing the resilience of infrastructure and society to the impacts of geohazards.

By sharing these new approaches to geohazard research we aim to stimulate further debate and cross-disciplinary collaboration to address geohazards and their impacts.

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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