

SEPT. 21-27, 2023
CHENGDU, CHINA

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



Session 3-7

Water-Related Geotechnical Challenges and Innovations for Sustainable Megacity Development

Conveners



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Brief Introduction of the Session:

Megacities are complex urban environments that are facing unprecedented challenges related to water management and geotechnical engineering. Water is a critical resource for megacities, but it can also cause significant geotechnical challenges, such as soil liquefaction, subsidence, and slope instability, which can affect the safety and sustainability of urban infrastructure. These challenges require innovative geotechnical engineering solutions that can promote sustainable megacity development. This session aims to bring together experts from academia, industry, and government to discuss the latest research and innovations related to water-related geotechnical challenges in megacities. The session will cover topics such as groundwater management, soil-structure interaction, geohazards and risk assessment, advanced site characterization techniques, and innovative design solutions for sustainable urban development. The session will provide a platform for exchanging knowledge, ideas, and experiences, and identifying the future directions for research and innovation in this important area of geotechnical engineering. The session is intended for researchers, engineers, and practitioners interested in water-related geotechnical challenges and innovations for sustainable megacity development. This session will discuss the following issues, but not limited to:

- Geotechnical approaches to address soil liquefaction and subsidence in urban areas
- Advanced site characterization techniques for assessing geohazards in megacities
- Case studies of successful water-related geotechnical engineering projects in megacities
- Assessment and management of geotechnical risks associated with natural disasters, such as earthquakes, landslides, and tsunamis, in urban areas
- Geotechnical aspects of sustainable mining and resource extraction, including the management of waste materials and tailings, soil and groundwater contamination, and land reclamation techniques

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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