

SEPT. 21-27, 2023
CHENGDU, CHINA

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



Session 3-5

Enhance the resilience and adaptation of megacity to natural hazards

Conveners



Chongqiang Zhu

University of Dundee, UK



Andrew Brennan

University of Dundee, UK

Brief Introduction of the Session:

With both global population and levels of urbanization increasing significantly over the last century, more and more megacities with populations of more than ten million are being developed. About half of these megacities are exposed to substantial seismic hazards and most of them are in coastal region. Global climate change and sea level rise are increasing the risk of natural hazards such as earthquake, landslides, debris flow, tsunamis, coastal erosion, flooding, etc. in coastal megacities. While megacities are not necessarily facing substantially different or more severe natural hazards than other settlement types, the high density of population, of tall structures, and infrastructure links provide additional challenges not experienced elsewhere. It is thus significant to conduct research to enhance the resilience and adaptation of megacities to natural hazards.

The resilience of a megacity in the context of natural hazards is the measure of a city's capacity to absorb and recover from the occurrence of a natural hazard. Adaptation refers to the process of adjustment that takes place in megacity in response to the actual or expected impacts of natural hazards, aimed at moderating harm or exploiting beneficial opportunities. Although the new strategies of resilience and adaptation has great potential to reduce the risk of natural hazards for megacity, they remain at the conceptual level and approaches to making the concepts operational are still under exploration. This session therefore aims to bring together academic researchers and engineering practitioners to exchange understandings, experiences, and achievements about how to enhance the resilience and adaptation of megacity.

The topics covered by this session include understanding and definition of the resilience and adaptation of megacity to natural hazards, by which factors they are determined, how they can be measured and, most importantly, how it can be maintained and enhanced. Studies about disaster mechanism, evolution process and multi-risk assessment of natural hazards occurred at megacity definitely fall in the scope of this session. We also welcome topics related to traditional strategies to reduce the risk of natural hazards for megacities.

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>



www.iaeg2023.org

Tel: +86-28-84073193 / +86-135 4003 2551

E-mail: info@iaeg2023.org; IAEG2022@cdut.edu.cn