SEPT. 21-27, 2023
CHENGDU, CHINA

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

XIV IAEG CONGRESS 2023 CHENGDU

Session 2-5

Impact of Climate and Environmental Change on Engineering

Conveners

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Brief Introduction of the Session:

The impacts of climate and environmental change on engineering have become increasingly significant in recent years. From rising sea levels and changing precipitation patterns to melting permafrost and increasing extreme weather events, these changes pose challenges to infrastructure and engineering projects worldwide.

The scope of this session is to explore the complex interaction among climate change, environmental change, and engineering infrastructures. We aim to investigate how these changes affect the design, construction, and maintenance of various infrastructure projects, including buildings, transportation networks, energy pipeline systems, power transmission systems, and water management systems. We will also explore how engineering practices affect or facilitate the degradation of climate and environment, and further investigate what kind of engineering measures can contribute to mitigating and adapting to these challenges, while also promoting sustainability and resilience.

The session will cover a broad range of topics related to the intersection of climate and environmental change and engineering, including but not limited to:

- Climate and environmental change impacts on infrastructure: This topic will explore how climate change and environmental degradation affect the integrity and resilience of various engineering systems, such as buildings, bridges, highways, and airports.
- Influence brought by construction and maintenance of infrastructure: The construction and maintenance of infrastructure projects such as roads, bridges, buildings, and other structures will generate carbon emissions and lead to disturbance in the heat and eco-environmental balance. This topic will explore the role of the construction and maintenance of various infrastructures in promoting local and global climate and environmental change.
- Adaptation and mitigation design for resilience: This topic will discuss the various approaches that engineers are taking to adapt to the impacts of climate and environmental change, and how engineers can design infrastructure projects that are more resilient to climate and environmental hazards, including green infrastructure, sustainable materials, and energy-efficient systems.

IMPORTANT DATES

Abstract for Oral Presentation and Poster Submission Deadline	Early Bird Registration Deadline	Online Registration Deadline
Jun. 30, 2023	Aug. 10, 2023	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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