

SEPT. 21-27, 2023  
CHENGDU, CHINA

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

Session 4-9

## Utilization of Solid Waste in Geotechnical Engineering



### Conveners



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### Brief Introduction of the Session:

Nearly 8 billion of people are responsible for producing 2.5 billion tons of waste in current year. By 2050, the generation rate of waste will increase by 3.4 billion tons in the absence of adequate management and disposal, which may occupy a large amount of land and created a huge environmental risk. In other aspects, the complex phase compositions and valuable elements enriched in solid wastes signify the great prospects of resource recycling and utilization, which are of great importance to achievement of the carbon peaking and carbon neutrality goals, as well as the eco-environmental protection strategy. Owing to the wide range and great amount in demand, the utilization of solid wastes is greatly encouraged in the field of geotechnical engineering, such as the development of soil binders, the modification of special soils, the engineering application for pavement and subgrade materials, etc.

Further improving the support of science and technology for solid waste utilization in geotechnical engineering, the treatment and specific application of solid wastes, the generated geo-environmental effects, and modification mechanisms of the solid wastes are the typical complex engineering problems in current stage. On this basis, this session will discuss the following topics, but not limited to:

- Activation mechanism of solid waste and geopolymer development
- Pavement subgrade performance and environmental risk using solid waste filler
- Improvement of solid waste on special soil for foundation and slope stability
- Solidification/stabilization of heavy metal contaminated site with solid waste based cementitious materials
- Modification of contaminant barrier materials in landfills with solid waste

## 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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