

Session ID: GEO-11

Title

GEOTECHNICAL EARTHQUAKE ENGINEERING WITH GEOSYNTHETICS

Convenors

D. Giofrè ¹, G. Biondi ², G. Cardile ³

Description

In this Technical Session, we invite presentations aiming at emphasizing the role of geosynthetics in various application of civil engineering in seismic areas. We expect contributions focusing on the role of geosynthetics on the mitigation and prevention of earthquake-related disasters and on their effectiveness in the improvement of the seismic performance of various geotechnical systems.

Contributions on the following applications, but not limited to, are thus welcome:

- soil-geosynthetic interaction under cyclic and dynamic loading conditions
- seismic performance of geosynthetic-reinforced embankments, slopes and walls
- geosynthetics in solid-waste landfills in seismic areas
- seismic performance of geosynthetic-reinforced shallow foundations
- geosynthetics in liquefaction mitigation
- geosynthetics in ground improvement in seismic areas

Invited Speakers

Y. Miyata ⁴, E. Guler ⁵, R. Bathurst ⁶, N. Matasovic ⁷

Affiliations

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