



Special Session Proposal (Earthquake Engineering)

Response modification techniques for bridges

The EAEE (European Association of Earthquake Engineering) Working Group 11 ‘Seismic design, assessment, and retrofit of Bridges’ and the ACI (American Concrete Institute) Committee 341 ‘Earthquake-Resistant Concrete Bridges,’ are jointly organizing this special Session (Earthquake Engineering). The session will focus on response modification devices and techniques for improving the seismic performance and resilience of concrete bridges. It will follow the format of oral research presentations (5-8) with the two co-conveners as moderators, and will be open to all participants, with an emphasis on international collaboration and lessons learned.

The session will address the use of response modification devices such as base isolation, supplemental damping, and other active and passive control technologies in bridge applications. In addition, isolation and energy dissipation techniques, such as structural or foundation rocking, soil-structure-interaction as a means of controlling seismic demands, special backfill or abutment systems, and hybrid technologies are of interest. It will serve as a forum for sharing experimental, analytical, and numerical studies on these innovative systems and technologies, as well as case studies of such systems being deployed in bridge construction around the world.

Session organisers

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