

Session ID: NSE-1

Title

SEISMIC PERFORMANCE OF NON-STRUCTURAL ELEMENTS (SPONSE)

Convenors

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Description

The seismic response of non-structural elements is critical regarding three main aspects: functioning of critical and ordinary facilities, damage and economic losses associated with post-event surveys and repair interventions, human losses and threat of life. In the last two decades, the literature studies and technical applications on non-structural elements grew exponentially, proving that the primary importance of this topic has been clearly acknowledged.

The SPONSE International Association has a major role in fostering and promoting research on the seismic response of non-structural elements and is thus organising a session that aims to cover scientific and technical contributions on this topic, considering a broad range of studies and applications. Potential case studies include but are not limited to (1) architectural elements, (2) building and facility utility equipment and systems, and (3) building contents. The spectrum of the potential applications ranges from small-scale to large-scale case studies. The potential topics of interest regarding non-structural elements include but are not limited to (a) performance based-seismic design, (b) experimental studies, (c) modeling/numerical simulation, (d) evaluation of the seismic demand, (e) innovative techniques to mitigate the damage, (f) standardization of qualification and fragility testing and design procedures, (g) loss estimation.

This SPONSE technical session will gather the community active in the field of the seismic response of non-structural elements; the session will foster the dissemination and the technical-scientific discussion. In particular, the session will be open to both young and senior academics and researchers, professionals and practitioners, industry stakeholders, and administrative officials.

Invited Speakers

R. Dhakal ⁴, K. Ryan ⁵, T. Sullivan ⁴

Affiliations

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