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Title

ROCKING BUILDINGS - THE ELUSIVENESS OF IMPLEMENTATION

Convenors

M. Speicher ¹, C. Segura ¹

Description

Ancient structures, by purpose or accident, have demonstrated how rocking mechanisms can be an effective means of reducing, or even eliminating, structural damage following an earthquake. Perhaps inspired by this observation, low-damage rocking approaches have been explored in numerous research efforts over the last several decades. Out of this research comes the following observations: 1) allowing structures to rock effectively eliminates damage modes, such as soft-stories, and creates a predictable global mechanism that can achieve acceptable behavior for a full spectrum of performance levels, and 2) implementation of rocking into real buildings has been limited. This session will explore the elusiveness of wider implementation of rocking as a means to achieve low-damage outcomes.

Invited Speakers

L. Wiebe ², G. Tsampras ³, D. Mar ⁴, S. Pampanin ⁵

Affiliations

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