Session ID: EVO-9

Title
FUTURE DIRECTIONS OF SEISMIC CODES

Convenors
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Description
Seismic design codes around the world require regular revision in order to incorporate improved knowledge and understanding, as well as adapt to changing environments and building performance expectations. Code committees face a number of challenges when seeking to make revisions, trying to incorporate the best scientific methods and knowledge balanced by the need for a product that is practical to use and enables efficient use of resources. For a variety of reasons, different parts of the world have quite different seismic design codes and follow quite different revision procedures. This technical session aims to explore what could be the future directions of seismic design codes. The session not only invites presentations on what technical seismic issues should be addressed in future codes, but also considers a number of other broader questions: What processes and procedures should be followed in developing future codes? How should future codes address sustainability, including trade-offs in embedded carbon in initial design vs life-cycle carbon? How should future codes respond to broader trends in the construction industry such as digital fabrication and 3D printing, and the role of AI and machine learning? How could best practices be developed for open access to codes, with target traceable, evidence-based, interoperable design standards?

The session seeks presentations from a range of backgrounds and geographic areas so that thoughts from across the globe can be shared. The session is keen to hear from people who wish to share their experiences about effective code development, as well as those who have visionary ideas for new technical solutions, procedures and considerations.

Invited Speakers
J. Hooper [4], K. Elwood [5], P. Franchin [6], A. Correia [7]

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