

Session ID: EVO-6

Title

SECOND GENERATION OF EUROCODE 8

Convenors

R. Bento ¹, P. Bisch ², A. A. Correia ³

Description

The structural Eurocodes are a set of design standards for buildings and other structures, developed by the European Committee for Standardization, CEN. In most European countries, they replaced the former design standards in the last two decades. Other countries outside Europe have also adopted the Eurocodes as their national standards, such as Singapore, Hong Kong, Kenya and Dubai. Since 2015, CEN set out a work programme for developing the second generation of Eurocodes which, among others, includes:

- The extension of existing rules to include new materials, products and construction methods
- A revision and update of the Eurocodes considering current research and knowledge
- Better consistency and cross-border harmonisation

This Technical Session aims to inform on the development of the new generation of Eurocode 8, dedicated to seismic design and assessment, providing a general overview of the final drafts of all its parts, and to foster the discussion on the developments made and their implications in current practice, safety and economy.

The invited speakers include the main contributors in charge of the development of the 2nd generation Eurocode 8. They will explain the design and assessment approaches adopted for buildings, bridges and other structures, including details such as the seismic action definition, site classification, geotechnical design, reliability background, or seismic isolation and retrofitting measures considered.

Other participants are expected to complement those presentations by sharing experiences from other design codes or from the application of the new Eurocode 8 to design and assessment case studies. Proposals on possible future developments for seismic design standards and approaches are equally welcome.

Invited Speakers

P. Labbé ⁴, A. Plumier ⁵, A. Kappos ⁶, A. Pecker ⁷, C. Butenweg ⁸, P. Franchin ⁹

Affiliations

¹ Instituto Superior Técnico University of Lisbon, Lisbon, Portugal, ² École des Ponts Paris Tech, Paris, France, ³ National Laboratory for Civil Engineering, Lisbon, Portugal, ⁴ Paris Institute of Technology Ecole des Ponts-Centrale Supélec, Paris, France, ⁵ University of Liege, Liege, Belgium, ⁶ Khalifa University, Abu Dhabi, United Arab Emirates, ⁷ Ecole des Ponts ParisTech, Paris, France, ⁸ Aachen University, Aachen, Germany, ⁹ Sapienza Università di Roma, Rome, Italy