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Session ID: EXP-1

Title

ERIES: ADVANCING FRONTIER KNOWLEDGE IN EARTHQUAKE ENGINEERING THROUGH LABORATORY TESTING

Convenors

G. O'Reilly ¹, G.M. Calvi ¹

Description

This technical session offers an overview of research activities currently being conducted at leading experimental facilities across Europe as part of the ERIES project. It offers research groups from across Europe transnational access to these experimental facilities to carry out specific research projects related to earthquake, wind and geotechnical engineering, with the ultimate goal of fostering loss-driven design and mitigation approaches, risk quantification and prioritisation, and green and sustainable development. The session covers a range of topics from the experimental activities currently underway, from seismic design and retrofit strategies, to understanding the seismic behaviour of existing structures and materials, to developing advanced anti-seismic devices and experimental testing techniques. The topics are discussed from the perspectives of both researchers and practising engineers, sharing their experiences and insights and providing a platform to discuss the current challenges and future trends in earthquake engineering. The session also provides a unique opportunity to understand the research activities and the state-of-the-art experimental facilities available in Europe. Finally, the session looks at the potential for collaboration and knowledge exchange between the research groups.

Invited Speakers

J. Pacheco de Almeida ², D. Losanno ³, R. Gentile ⁴, L. Di Sarno ⁵

Affiliations

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