

Session ID: SHR-7

Title

WHEN SCIENCE MEETS INDUSTRY: ADVANCES IN ENGINEERING SEISMOLOGY STEMMING FROM ENGINEERING PRACTICE

Convenors

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Description

The challenges encountered in major industrial projects can provide a springboard for research and innovation, bringing about several advances in the Engineering and Seismological communities. In the US, it has long been the case that cutting-edge research in engineering seismology does not only originate in a purely academic context but also from practice in large-scale projects between academia and industry aimed at solving real case-specific challenges, not least in the domain of seismic hazard assessment. In more recent years, large national and international industrial projects in many other countries and continents have also begun to shape the state-of-the-art in science, technology and practice, developing new approaches and innovative techniques in several topics, including source processes, ground motion, hazard assessment and uncertainty, induced seismicity, earthquake engineering and design, and more.

This session aims to bring together the Engineering and Seismological communities and create a platform for discussion and exchange concerning recent advances in any aspect of engineering seismology where innovation in data, models or methods has been driven by the needs of industry. We welcome contributions from academics and practitioners, national bureau rendering expert services, organisations from the energy and other sectors, companies providing research-led consulting. We also seek to hear from those developing new products, sensors, tools or software that are changing the state-of-the-art and to discuss exciting new possibilities for applications.

Invited Speakers

J. Bommer ⁴, K.-F. Ma ⁵, S. Nikolaou ⁶, S. Bora ⁷, Z. Gulerce ⁸

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