



Session 31

When science meets industry: Advances in engineering seismology stemming from practice

Conveners:

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In recent years, the challenges faced in major industrial projects have provided a springboard for research and innovation that have brought about numerous advances in the Engineering and Seismological communities. In the US, it has been the case for a long time 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 casespecific challenges, not least in the domain of seismic hazard assessment. In more recent years, large national and international industrial projects in Europe 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 ground motion models, uncertainty quantification, site-specific hazard assessment, site characterisation, site effects and attenuation, but also seismic hazard of low seismicity regions, induced seismicity, 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 bureaux rendering expert services, organisations from the energy and other sectors, leading companies that practice research-led consulting. We also seek to hear from those developing new products, sensors, or software that are changing the state-of-the-art and to discuss exciting new possibilities for applications.