



MILAN, ITALY  
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**Session ID:** RES-9

**Title**

ADVANCES IN SEISMIC RESILIENCE RESEARCH - COMMEMORATING 70TH ANNIVERSARY OF IEM, CEA

**Convenors**

T. Wang <sup>1</sup>, S. Li <sup>2</sup>, Z. Qu <sup>3</sup>

**Description**

The pursuit of seismic resilience has emerged as a significant research direction in the earthquake engineering community. In recent years, countries worldwide have begun launching plans for the construction of resilient cities, aiming at reducing natural disaster risks and achieving social disaster resilience as goals and indicators. In pursuit of these objectives, many countries have made significant advances in research on aspects such as the engineering damage mechanism, seismic resilience assessment method, and structural resilience enhancement technologies. For instance, China launched the scientific program 'Resilient Cities and Rural Areas' in 2017, which has yielded significant progress. The concept of resilience has become deeply ingrained in people's minds, and resilient city construction has been incorporated into China's national '14th Five-Year Development Plan.'

The Institute of Engineering Mechanics (IEM), China Earthquake Administration (CEA), has long been recognized as the birthplace of earthquake engineering research in China and is credited with spearheading China's 'Resilient Cities and Rural areas' scientific program. To commemorate its 70th anniversary in 2024 as well as showcase the latest scientific research on seismic resilience and earthquake engineering from around the world, we are pleased to announce the opening of this technical session for papers and presentations on various topics related to seismic resilience. These include but are not limited to urban earthquake risk assessment and monitoring, earthquake disaster simulation, resilient engineering systems, earthquake disaster risk assessment, and mitigation in urban and rural areas, and technologies for enhancing social resilience. The session will serve as a platform for researchers and practitioners with expertise in earthquake engineering to present their latest findings and exchange ideas on the most pressing issues facing the field today.

**Invited Speakers**

B. Sun <sup>1</sup>, L. Wang <sup>2</sup>, A. Wada <sup>3</sup>, B. Spencer <sup>4</sup>, G.P. Cimellaro <sup>5</sup>

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