13th U.S. NATIONAL CONFERENCE ON EARTHQUAKE ENGINEERING

Resilience Through Community Engagement and Technology

Portland, Oregon
July 13 - 17, 2026

Hosted by the Earthquake Engineering Research Institute

13th National Conference on
EARTHQUAKE ENGINEERING
PORTLAND, OREGON | JULY 13-17, 2026

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Purpose

The Thirteenth U.S. National Conference on Earthquake Engineering (13NCEE) will provide an opportunity for researchers and practitioners to share the latest knowledge and techniques to better understand and mitigate the damaging effects of earthquakes and tsunamis.

Professionals from the full spectrum of the earthquake community will gather to discuss and debate new research, advancements in practice, and a multitude of new and ongoing issues related to seismic hazard, risk, mitigation, and public policy that have emerged in the last four years.
The Earthquake Engineering Research Institute (EERI) is organizing this conference in Portland, Oregon – a region with significant hazard from the Cascadia Subduction Zone as well as a system of local faults. Occasional earthquake swarms off the state's coast provide a consistent reminder of this risk. Learn about recent local efforts to advance mitigation through policy at this conference, while talking with locals and many others from regions around the US and beyond.

Extensive sessions on structural engineering and geotechnical engineering will be supplemented by synergistic sessions on seismology, geology, geophysics, social science, public health, public policy, lifelines, architecture and urban planning, emergency response, constructions, insurance, and risk analysis to allow cross-disciplinary learning for engineers and others from the earthquake community. The 13NCEE will provide a unique environment and comprehensive program designed to facilitate synergy between earthquake scientists, engineers, and policy professionals from the United States and around the world.

Venue

Oregon Convention Center
777 NE Martin Luther King, Jr. Blvd
Portland, OR 97232, United States

The Oregon Convention Center (OCC), located in Portland, Oregon, has been a cornerstone of the city's event landscape since its opening in 1990. Designed to reflect the forward-thinking spirit of the Pacific Northwest, its striking architecture, including the iconic twin glass spires, quickly became a symbol of the region. Over the years, the OCC has undergone significant expansions and renovations, most notably in 2003 and 2019, and currently stands as the largest convention center in the Pacific Northwest.

The OCC is a leader in sustainability, holding LEED Platinum certification for its energy-efficient design and green initiatives, such as extensive recycling programs and a solar power system. Conveniently located in the heart of the city, it provides easy access to public transportation, nearby hotels, and attractions like the Moda Center and the Willamette River.

Technical Program

The program will consist of invited plenary sessions, concurrent oral sessions, and poster sessions. Concurrent oral sessions will be a mix of Special Sessions and Technical Topic Sessions. A list of Technical Topics and details on how to submit a Special Session proposal are available later in this document. Participants will have access to digital copies of all conference papers as part of the registration package.

Concurrent Events

The 2026 EERI Annual Meeting will take place at the 13th National Conference, along with EERI's always exciting Annual Undergraduate Seismic Design Competition.

Workshops and Technical Tours

Workshops and technical tours will be organized as part of the pre- and post-conference activities. More information will be available at the conference website soon.

Exhibits and Sponsorship

There will be space available for exhibits and opportunities for sponsorships. Interested organizations should look for the Exhibitor and Sponsorship Brochures on the conference website: 13ncee.eeri.org

Call For Papers

Paper Formats

The 13NCEE program will be designed with community-submitted papers. Papers will be a maximum of 4 pages, with an abstract limited to 200 words, and a maximum of 5 figures (included in the 4-page limit). References are not included in the page limit but must be formatted per the 13NCEE style. There will be no preliminary abstract submission and review. The first and only submission will be a 4-page paper manuscript. All papers must be submitted using the 13NCEE paper template. This format and length are designed to be similar to a 'technical note' accepted by many technical journals.

Submission of Papers for Review

Authors must submit papers online. Detailed instructions are available at the conference website here: https://13ncee.eeri.org/call-for-papers. Paper submissions open on July 8, 2025, and full papers must be received by September 30, 2025. Each submitted paper is subject to a publication submission fee. This fee varies by the submitter's EERI membership type and helps to cover the administrative costs of paper submission and review. It is non-refundable and does not get applied to an author's conference registration. Membership rates are applied to those who have a 2025 EERI membership.

EERI Membership Type	**Paper Fee**
EERI Member	$75
EERI Affiliate Member	$50
EERI Student Member	$50
Non-Member	$150

Paper Selection Criteria

The papers will be reviewed for both content, considering significance, originality, and robustness of the material presented, and clarity of concepts and organization. Papers are expected to be free from commercialism.

Notification of Acceptance

Authors will receive confirmation of acceptance of their papers, including the presentation type (traditional oral, lightning, or poster) and any review comments, in December 2025. Final revised papers will be due in early spring 2026. Final presentation session details, including date and time, will be emailed to authors in February 2026. Authors must be registered by January 30, 2026, to have their paper included in a session.

Technical Program Topic Areas

Earth Science and Ground Motions

- Seismicity, Earthquake Sources, and Earthquake Geology
- Engineering Seismology, Hazard Applications, and Operational Earthquake Forecasting
- Ground Motion Modeling
- Instrumentation, Data Collection, and Seismic Networks
- Machine Learning and Artificial Intelligence

Geotechnical Engineering

- Liquefaction & Ground Failures
- Soils, Foundations, Earth Retention Systems, and Underground Infrastructure
- Soil-Structure Interaction
- Ground Improvement
- Numerical Modeling and Advances in Non-Linear Modeling Tools
- Experimental Methods
- Case Histories
- Performance-Based Design and Improvements to Codes/Practice
- Site Investigation Methods/Tools
- Machine Learning and Artificial Intelligence

Risk/Loss Modeling, Planning, and Response

- Risk and Loss Assessment and Socio-Economic Impacts
- Multi-Hazard Risk Assessment and Cascading Hazards Following Earthquakes
- Tsunami Hazard Assessment, Design, and Recovery
- Insurance Applications and Catastrophe Models
- Fire Following Earthquake
- Machine Learning and Artificial Intelligence
- Community-level Earthquake Resilience Assessment

Social Science, Public Health, and Public Policy

- Earthquake Response, Emergency Management, Damage Assessment, and Recovery
- Earthquake Effects Mitigation & Resilience Building
- Socio-economic Issues & Public Policy
- Earthquakes & Public Health
- Information Technology & Collaboration
- Earthquakes and Social Justice
- Machine Learning & Artificial Intelligence

Structural Engineering

- Repair and Retrofit
- Tall Building Analysis and Design
- Non-Structural Components and Systems
- Bridge Structures
- Building Structures
- Innovative Systems
- Performance-Based Design for Resilience
- Advances in Non-Linear Modeling Tools
- Experimental Methods
- Structural Health Monitoring
- Machine Learning and Artificial Intelligence

Sustainable Materials and Advanced Construction Methods

- Advanced Construction Methods, Including Additive Construction, 3D Printing, and Robotic Methods
- Mass Timber Construction
- Modular Construction
- Seismic Retrofit Challenges for Historic and Heritage Structures
- Advancements in Low-Damage Seismic Design

Technical Program Topic Areas

Transportation and Lifelines

- Risk and Resilience of Distributed Infrastructure and Lifelines
- Performance-Based Engineering of Lifelines
- Seismic Hazard Assessment for Transportation and Lifelines
- Seismic Isolation, Energy Dissipation and Control Systems for Lifelines
- Machine Learning and Artificial Intelligence

Other/Cross-Cutting Topics

- Reconnaissance/Lessons Learned from Recent Earthquakes
- Post-Earthquake Assessment and Response
- Risk Communication and Public Education for Earthquakes
- Critical Infrastructure (Hospitals, Schools, Power Plants, Dams, Ports)
- Earthquake Engineering, Mitigation, Preparedness, Response and Recovery in Oregon/Portland
- Machine Learning and Artificial Intelligence Applications for Earthquake Engineering
- Community Engagement

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For questions regarding special session proposals and paper submissions, please email ncee@eeri.org.