



## EARTHQUAKE ENGINEERING RESEARCH INSTITUTE

Founded in 1948, EERI's mission is to reduce earthquake risk by (1) advancing the science and practice of earthquake engineering, (2) improving understanding of the impact of earthquakes on the physical, social, economic, political, and cultural environment, and (3) advocating comprehensive and realistic measures for reducing the harmful effects of earthquakes.

### NEWS OF THE INSTITUTE

#### ▶ [Deadline Extended! 11NCEE Call for Papers](#)



#### *The Eleventh National Conference on Earthquake Engineering (11NCEE)*

**June 25-29, 2018**

**Los Angeles, California**

**CALL FOR PAPERS DEADLINE: JUNE 25, 2017**

[Submit a paper abstract](#)

#### Technical Program Topic Areas

- Advances in Non-Linear Modeling Tools
- Bridge Structures
- Buildings, Structural Systems
- Critical Infrastructure (hospitals, schools, power plants, dams, ports)
- Education and Outreach
- Engineering Seismology
- Experimental Methods
- Ground Motion Modeling, Directivity, Spatial Correlation

- Ground Motion Simulations for Engineering Applications
- Ground Motion Spatial Variability
- High Performance Computing and Simulation
- Information Technology and Collaboration Tools
- Instrumentation, Data Collection, and Seismic Networks
- Lessons Learned from Recent Earthquakes, Post-Earthquake Assessment and Response
- Liquefaction and Ground Failures
- Multi-Hazard Risk Assessment, Cascading Hazards Following Earthquakes (fire, landslide, etc.)
- Non-Structural Components and Systems
- Onshore and Offshore Southern California Fault Systems
- Operational Earthquake Forecasting
- Post-Earthquake Response, Emergency Management, and Recovery
- Repair and Retrofit
- Resilient Communities and Cities
- Risk and Loss Assessment and their Socio-Economic Impacts
- Risk and Resilience of Distributed Infra- structure and Lifelines
- Seismic Hazard Assessment
- Seismic Isolation, Energy Dissipation and Control Systems
- Seismicity, Earthquake Sources, and Earthquake Geology
- Seismology & Seismotectonics
- Socio-Economic Issues and Public Policy
- Soils, Foundations, Soil-Structure Interaction
- Tall Buildings Design and Issues
- Tectonics, Faults, and Large Earthquakes
- Tsunami Hazard Assessment, Design, and Recovery

For more information visit the [11NCEE website](#) and download the [Call for Papers PDF](#).

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### ► 2017-2018 EERI/FEMA Graduate Fellowships in Earthquake Hazard Reduction

EERI is pleased to announce the availability of two Graduate Fellowships for the 2017-2018 academic year to support full-time students in a discipline contributing to the science and practice of earthquake hazard mitigation.



The one-year fellowship, underwritten with funds provided by the [Federal Emergency Management Agency](#), is designed to foster the participation of capable individuals in working toward goals and activities of the [National Earthquake Hazards Reduction Program](#).

#### **Award**

The EERI/FEMA NEHRP fellowship provides a stipend of \$12,000 that can be used for tuition, fees, research expenses, and the required attendance and participation at the 2018 Eleventh National Conference on Earthquake Engineering and EERI Annual Meeting, June 25-29, 2018, in Los Angeles, California.

#### **Criteria**

Applicants must be enrolled in a graduate degree program at an accredited U.S. college or university and must hold U.S. citizenship or permanent resident status. All applications must include an academic transcript and a statement of educational and career goals. Strong consideration will be given to candidates with active involvement in EERI.

All application materials must be submitted electronically to EERI, including a letter of nomination from a faculty sponsor at the student's institution and two additional reference letters. Letters should evaluate the applicant's recent academic performance, document the applicant's research accomplishments, and assess the candidate's potential to contribute to the field.

#### **Application**

Candidates may apply online at <https://www.eeri.org/about-eeri/honors-awards/graduate-fellowship/>

**Deadline:** All application materials are due **July 9, 2017**. Announcement of the award will be made no later than September 1, 2017.

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#### ▶ [EERI Welcomes New Housner Fellows](#)

Please join us in congratulating our [2017 Class of Housner Fellows](#): **Dana Brechwald** (M. EERI, 2013), **Debra Murphy** (M. EERI, 2007), **Erik Bishop** (M. EERI, 2015), **Karl Telleen** (M. EERI, 2017), **Rebecca Laberene** (M. EERI, 2007), and **Veronica Cedillos** (M. EERI, 2008). This highly-qualified group represents the third class of EERI's prestigious Housner Fellows Program for leaders in their professions and advocates for seismic safety. Stay tuned to the Pulse for upcoming news about the Housner Fellows.

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### LEARNING FROM EARTHQUAKES

#### ▶ [New Report on Pidie Jaya Earthquake](#)

A collaboration between **Build Change**, the **Indonesian Earthquake Engineering Research Association (AARGI)**, and **EERI** has produced a new Learning from Earthquakes (LFE) reconnaissance report that summarizes impacts from the M6.5 Pidie Jaya Earthquake in Aceh, Indonesia on December 7, 2016.

[Download the Build Change-AARGI-EERI Earthquake Reconnaissance Report](#)

The report covers a wide range of disciplinary topics, including emergency response, distributed infrastructure, building impacts, social impacts, and economic impacts.

**Build Change** designs disaster-resistant housing and schools in emerging nations and trains locals to build them, in order to reduce deaths, injuries, and economic losses caused by building collapses in these regions due to earthquakes and typhoons. **The Indonesian Earthquake Engineering Research Association (AARGI)** is a network of Indonesian earthquake professionals, researchers, academics, and stakeholders committed to reducing seismic hazards in Indonesia.

The report authors include: **Lizzie Blaisdell Collins** (M.EERI,2013), Build Change, Elwahyudi (Build Change), **Edwin Lim** (M.EERI,2011), Mediatrich Triani Novianingsih (Build Change), Muhammad Riyansyah (AARGI), and **Hartanto Wibowo** (M.EERI,2007), Iowa State University.

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### ► **New Kumamoto Lifelines Report from TCLEE**

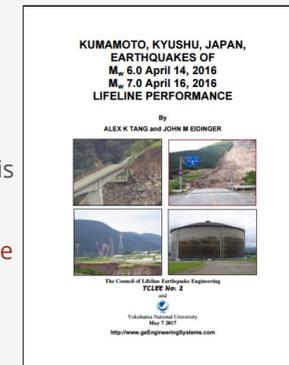
On April 16, 2016, a M7.0 earthquake occurred near Kumamoto, Japan. This earthquake resulted in 70 fatalities, thousands of injuries, and various types of damage to more than 10,000 structures.

There was also a wide range of damage to lifelines. Technical Council on Lifeline Earthquake Engineering (TCLEE) members, **Alex Tang** (M.EERI, 1985) and John Eiding, have written a 280-page report on the performance of lifelines in this earthquake, including electric, gas, water, telecommunications, transportation and ports. The report is available for download on the [EERI Kumamoto Japan Earthquake Virtual Clearinghouse](#).

Download the report: "Kumamoto, Kyushu, Japan Earthquakes of Mw 6.0 April 14, 2016 Mw 7.0 April 16, 2016 Lifeline Performance"

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## REGIONAL CHAPTER NEWS

### ► **EERI San Diego Chapter - March Events Recap**

The **EERI San Diego Regional Chapter** organized two successful events at the end of March that attracted more than 150 attendees from California and other parts of the world.

**The 2nd Workshop on Geotechnical Earthquake Engineering** took place at the University of California, San Diego, on March 29-30, 2017. The workshop, "**Dealing with the Consequences of Liquefaction**," featured 23 speakers from the USA, Japan, England, New Zealand, Chile and Canada. The workshop honored the lifetime achievements and contributions of Professor Kenji Ishihara. EERI and ASCE- GeoInstitute presented Prof. Ishihara with recognition plaques. Gold Sponsors included RMA Group and Hayward Baker.

[More information and photos](#)

The second event was a 1-day short course held March 28, 2017 on the UCSD campus, "**Liquefaction: From Site Characterization to User-Friendly Computer Programs**," presented by Prof. Ahmed Elgamal, Dr. Michael Fraser, and Dr. Jorge Meneses. About 65 students attended.

[More information and photos](#)



The Organizing Committee, chaired by **Dr. Jorge Meneses** (M. EERI, 2006), a Principal Geotechnical Engineer with RMA Group and President of the EERI San Diego Chapter, was composed of a group of dedicated PhD students from UC San Diego and UC Los Angeles. The proceeds from these two events will go to update the **San Diego-Tijuana Earthquake Scenario**, a project led by the EERI San Diego Chapter with the participation of organizations from San Diego, California, and Tijuana-Ensenada, Baja California, Mexico. For further information please contact Dr. Meneses ([jmenesesl@gmail.com](mailto:jmenesesl@gmail.com)).

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## PROFESSIONAL OPPORTUNITIES - MAY15, 2017

### ► Job Posting: FEMA Building Science Branch

#### Interdisciplinary Engineer

Located at FEMA's headquarters in Washington, D.C., this position sits at the intersection of engineering and policy, covering all hazards, in the branch that houses the FEMA NEHRP team as well as their flood and wind counterparts.



In this position, you will serve as an Architect or Civil Engineer responsible for the application of mitigating the effects of natural hazards. Typical assignments include:

- Advising, developing, and evaluating building code related policies, procedures, and guidance as they relate to natural hazards.
- Preparing technical papers and presentations expressing the Agency's position on building code issues.
- Providing technical support on the development of technical training materials.
- Acting as point of contact on natural hazards mitigation, and disaster-resistant building codes and standards.

Please apply online:

FEMA-17-RJ-163155-MP- <https://www.usajobs.gov/GetJob/ViewDetails/468746000> (prior Federal service)

FEMA-17-RJ-163155-DE- <https://www.usajobs.gov/GetJob/ViewDetails/468747000> (no prior Federal service)

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### ► Job Posting: University of California, San Diego, Jacobs School of Engineering

#### Assistant, Associate or Full Research Scientist in Structural Engineering

[Full job description and application instructions](#)



**The University of California, San Diego, Department of Structural Engineering** seeks candidates for the position of **Research Scientist** to lead the research operations and implementation of innovative structural testing methods at the **Englekirk Structural Engineering Center**. The candidate is expected to contribute to and support the research mission of the laboratory as well as attract and manage experimental programs from industry. Research expertise in structural dynamics, experimental mechanics, and controls, particularly as related to structural and seismic testing is desired. The candidate must be well versed in the operation of servo-hydraulic control systems and data acquisition/instrumentation systems, and have knowledge of modern cloud computing for data exchange, storage, retrieval and post-

processing; as well as dynamic scheduling and budgeting methods to allow smooth collaboration with national partners. The Center is home to the Large High Performance Shake Table (LHPOST), the largest shake table in the US, and the Blast Simulator Facility among other structural and geotechnical testing facilities. The mission of the Englekirk Center is to provide the structural engineering community with a world-class testing facility producing high quality experimental data as well as consultation on experimental design and training/education. The LHPOST is currently a national shared-use experimental facility as part of the National Science Foundation supported [Natural Hazards Engineering Research Infrastructure \(NHERI\)](#) program.

An earned doctoral degree or advancement to candidacy in civil engineering, mechanical engineering, structural engineering, or a related field is required at the time of application. Entry-level candidates for a Research Scientist (non-instructional) will need to demonstrate that their research trajectories are likely to position them to become independent scientists within a few years after appointment, while mid-senior level candidates will be expected to have a track record of independent peer-review research. For consideration, [please apply online](#).

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## OPPORTUNITIES FOR STUDENTS AND YOUNG PROFESSIONALS - MAY 15, 2017

### ▶ [EERI 2017 Post-Graduate Internship](#)

**Final Notice! Applications are due May 31, 2017.** The **Earthquake Engineering Research Institute (EERI)** has an [internship position](#) available for recent graduates who are interested in gaining valuable professional experience while supporting the Institute's mission to reduce earthquake risk.

EERI's internships offer engagement with a number of interesting EERI projects and Institute activities, including [Learning from Earthquakes](#), the [School Earthquake Safety Initiative](#), annual meetings and conferences, and technical seminars and webinars.

EERI's internships are approximately six-months long and provide a monthly stipend of \$2,200. These positions can begin as early as June 30, 2017. **Please [submit your application by May, 31 2017](#).**

[About EERI's Post Graduate Internship Program](#)

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### ▶ [The NHERI Summer Institute](#)

**The inaugural NHERI Summer Institute will be held on July 24-28, 2017 at University of Texas at San Antonio (UTSA).** The five-day workshop is for K-12 educators, engineers, and researchers who want to learn more about the Natural Hazards Engineering Research (NHERI) community.



Summer Institute participants will be exposed to collaborating with NHERI experimental sites, networking with engineers, researchers, and educators interested in natural hazards engineering, and creating useful grant proposal drafts and lessons during the program.

Participants will attend sessions on:

- The mission of the NSF-funded NHERI program
- Writing a grant proposal through grant writing & design workshops

- Requesting research resources within the NHERI network
- The NHERI Science Plan
- Computational research and data management through hands-on participation.

**Cost to attend is free**, and the NHERI award covers travel expenses for a limited number of early career faculty members (i.e., non-tenured professors) and early career professionals. For more information and to apply for limited travel funding, [please visit the DesignSafe-CI website](#).

Local K-12 educators can also apply to receive a stipend for participating. (Unfortunately, the NHERI Summer Institute cannot sponsor international travel assistance.)

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## NEWS OF THE PROFESSION

### ▶ [Links to Recent News and Views](#)

Eight recent stories, reports, or opinions from around the web.

**1 Only One Earthquake Bill Passed This Year — Making School Drills Optional** (Seattle Times)

The day after convening a subcabinet meeting on earthquake preparedness last week, Gov. Jay Inslee (WA) signed the single seismic-safety bill passed by the Legislature this session. [Read more](#)

**2 California Earthquake Authority Creates Online Home Vulnerability Evaluator** (Insurance Journal) The CEA has created an online tool to help home inspection specialists evaluate a house's vulnerability to earthquake damage. The online tool, QuakeGrade, uses information entered by an inspector and collects data about a house's structural and geological risks. [Read more](#)

**3 Oregon Looks to add Earthquake Resilience to Your Home-Buying Checklist** (Statesman Journal) House Bill 2140 (OR) would require property sellers to tell buyers whether the home was built before 1974, and if so, whether the house had been bolted to the foundation. **Jay Wilson** (M. EERI, 2011), chairman of the Oregon Seismic Safety Policy Advisory Commission, tells lawmakers, "It's unreasonable to expect homebuyers ... to know about the Cascadia Subduction Fault." [Read more](#)

**4 M=5.4 Earthquake Along the Tashkurgan Fault Takes Lives in Western China** (Temblor) A M=5.4 earthquake at 5:58 a.m. local time on 11 May 2017 collapsed 180 buildings and homes, and killing at least eight people, and injuring 23. Despite the small size and modest shaking of the M=5.4 mainshock, the poor building quality in the region meant structures were susceptible to collapse, especially close to the epicenter. [Read more](#)

**5 Earthquakes Can Make Thrust Faults Open Violently and Snap Shut** (Science Daily) It is a common trope in disaster movies: an earthquake strikes, causing the ground to rip open and swallow people and cars whole. The gaping earth might make for cinematic drama, but earthquake scientists have long held that it does not happen. Except, it can, according to new experimental research from Caltech. [Read more](#)

**6 Oklahoma Earthquake Risk: What a Difference Year Makes** (Insurance Journal) While increased earthquake activity in Oklahoma has somewhat become the new norm, the story continues to change. Risk managers spanning various industries are eager to understand the immediate and long-term risks associated with induced seismic activity. [Read more](#)

**7 Burst of Earthquakes Along the Alaskan Archipelago** (Temblor) A series of earthquakes has struck the Aleutian Islands in Alaska near Adak Island. The recent swarm highlights a zone where the plate boundary transitions from pure subduction to strike-slip motion. [Read more](#)

**8 Wastewater Injection Rates May Have Been Key to Oklahoma's Largest Earthquake** (EurekAlert!) Changes to the rate of wastewater injection in disposal wells may have contributed to conditions that led to last year's Pawnee earthquake in Oklahoma, according to a new report. [Read more](#)

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## CALENDAR

Follow these steps to add EERI Calendar to your own Google calendar.

1. Open [Google Calendar](#)
2. On the left, above "My Calendars," click Add + and then **From URL**.
3. Enter the EERI calendar's address in the field provided. EERI Calendar ics link  
[https://calendar.google.com/calendar/ical/eeri.org\\_s9151tit0ab26dnf2epn25d7rg%40group.calendar.google.com/public/basic.ics](https://calendar.google.com/calendar/ical/eeri.org_s9151tit0ab26dnf2epn25d7rg%40group.calendar.google.com/public/basic.ics)
4. Click **Add Calendar**. The calendar will appear on the left side under "Other calendars."

Tuesday, October 29, 2019 - October 30

### **APGCE**

The Asia Petroleum Geoscience Conference & Exhibition (APGCE)

29 – 30 October 2019

KUALA LUMPUR CONVENTION CENTRE, MALAYSIA

[REGISTER](#)

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Monday, December 09, 2019 - December 13

### **AGU 2019 Fall Meeting**

9-13 December 2019 San Francisco, California

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Tuesday, March 03, 2020 - March 06

### **EERI 2020 Annual Meeting/Natl EQ Conference**

National Earthquake Conference & 72nd EERI Annual Meeting

March 3 - 6, 2020

Sheraton San Diego Hotel & Marina

San Diego, California

[website](#)

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Wednesday, March 04, 2020 - March 06

### **2020 RBDCC**

5th Residential Building Design & Construction Conference (RBDCC)

Hosted by The Pennsylvania Housing Research Center

March 4-6, 2020

Penn Stater Conference Center

State College, PA.

[website](#)

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Monday, April 27, 2020 - April 30

**SSA 2020 Annual Meeting**

SSA 2020 Annual Meeting

27-30 April 2020 — Albuquerque, New Mexico

The 2020 Annual Meeting will be held in Albuquerque, New Mexico.

[Check back later for more information.](#)

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Monday, September 14, 2020 - September 18

**17th WCEE**

The 17th WCEE will be hosted in Sendai, Japan, from September 14th to 18th 2020. Check <http://www.iaee.or.jp/> for more information.

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