



## 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

#### ▶ EERI March for Science Recap



On Saturday, April 22, 2017, EERI was a visible force for advocacy at the San Francisco March for Science. We had around 25 members, friends, and loved ones gathered at the beginning of the march, including EERI's own Board President, **David Friedman** (M. EERI, 1988)!



We also want to send a big thank you to everyone who showed up to EERI HQ with great sign ideas and awesome energy for the Poster-making Happy Hour! Photo credits: David Friedman (top) and Bill Tremayne (bottom)

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► The Deadline for the 11th National Conference on Earthquake Engineering is Fast Approaching! Abstracts Due May 31, 2017



**Eleventh U.S. National Conference on Earthquake Engineering (11NCEE)**  
*Integrating Science, Engineering, and Policy*  
June 25-29, 2018  
Los Angeles, California

Submit a paper abstract before May 31, 2017!

The Eleventh U.S. National Conference on Earthquake Engineering (11NCEE), on the 70th Anniversary of the forming of the Earthquake Engineering Research Institute, 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. With the theme "Integrating Science, Engineering, and Policy," the conference will bring together more than 1,000 professionals from the full spectrum of the earthquake community to discuss and debate a multitude of issues related to seismic hazard, risk, mitigation and public policy. This unique conference will highlight more than 800 papers and 400 posters. **The deadline for submission of abstracts is May 31, 2017.** Authors will receive notification of provisional acceptance of their abstracts by August 15, 2017. Final papers, both full and extended abstracts, must be received by October 31, 2017.

[Submit a paper abstract](#)

#### **Paper Formats**

The 11NCEE is accepting two paper types for the proceedings: The full paper option has a limit of ten pages, and the extended abstract paper option has a limit of four pages. Paper body text will be Times Roman 12-point and single spaced.

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

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## IN MEMORIAM - MAY 1, 2017

### ▶ Remembering Tom Cooper

Longtime EERI member, **Thomas (Tom) W. Cooper** (M. EERI, 1980) passed away peacefully at his home in Palos Verdes, California on March 22, 2017. Tom graduated from Caltech in 1957 and from Stanford in 1959. His early career included work with Bechtel; he later went on to form his own firm of T.W. Cooper Inc. in 1977, which he ran for 40 years. He derived great pleasure from his professional associations and was truly eager to learn every day of his life.

Tom was passionate about earthquakes and particularly about their effect on liquid-storage tanks. He accumulated a wealth of knowledge about the behavior of tanks during earthquakes. He documented his observations in a well-regarded [NIST report](#). Tom had many interesting stories to tell, and he shared his experiences freely with others. He always had some new ideas, such as to seismically instrument liquid-storage tanks. Tom enjoyed his work immensely and remained sharp and active right up to his 85th birthday when he was hospitalized.

Tom's absence will be deeply felt and his contributions remembered for a long time.

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*Tom Cooper and his grandson*

## NEWS OF THE PROFESSION

### ▶ Links to Recent News and Views

Seven recent stories, reports, or opinions from around the web

**1 A M-8.3 Chile Earthquake has Become More Likely** (Temblor) Since 22 April 2017, an earthquake swarm has been in progress offshore the port city of Valparaíso, which has been widely felt in Chile's capital, Santiago. What are the implications, and what might happen next?

[Read more](#)

**2 New Discoveries About San Andreas Fault Afterslip Shed Light on Earthquake Risk** (Newsweek) Scientists have discovered that the San Andreas Fault in California continued to slip for up to 12 years after the magnitude 6 Parkfield earthquake that hit the state in 2004. [Read more](#)

**3 Strong Earthquake Hits Philippines, No Major Impact Seen** (Reuters) MANILA, April 29: A strong earthquake measuring 7.2 struck off the coast of Mindanao island in the Philippines on Saturday. There were no immediate reports of destruction or casualties, but witnesses said the quake was very strong and shook the ground and walls. [Read more](#)

**4 6.0 Earthquake Strikes Northern Peru, Felt Throughout Region** (Washington Post) On April 18 a 6.0 magnitude earthquake struck an Amazonian region of northern Peru. There were no immediate reports of damage or injuries, though the quake could be felt strongly as far away as Colombia and Ecuador. [Read more](#)

**5 As Quake-Prone Asia Urbanises, Shoddy Construction Raises Disaster Risk** (IRIN) 140 million people in Bangladesh, Myanmar, and India live within 100 kilometres of the newly discovered subduction zone under Bangladesh that experts are calling, "an underappreciated hazard," in one of the most densely populated regions of the world. [Read more](#)

**6 National Building Code: 94% of Houses in Kathmandu Unsafe** (Kathmandu Post) A study conducted by the Ministry of Urban Development (MoUD), in collaboration with the Japan International Cooperation Agency (Jica), revealed 94% of houses in earthquake-prone Kathmandu Valley do not meet the National Building Code and are vulnerable to seismic impact. [Read more](#)

**7 Nepal's Long Road to Recovery 2 Years After the Earthquake** (Humanosphere) On April 25, 2015, a 7.8-magnitude earthquake devastated Nepal, killing nearly 9,000 people and leaving 3.5 million without homes. Now two years later, after an impressive immediate response and declarations by the government to "build back better," development workers are saying the recovery process has stalled, especially in rural areas. [Read more](#)

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## REGIONAL CHAPTER NEWS

▶ [NYNE-EERI Chapter's February 2017 Mini-Symposium & Panel Discussion: New Zealand Earthquakes: Photos, Video, and Presentations Now Available Online](#)



**On February 2, The EERI New York – Northeast (NYNE) Chapter** hosted a joint event with the Geotechnical Extreme Events Reconnaissance (GEER) organization: "Mini-Symposium on the 2010-11 and 2016 New Zealand earthquakes, and their implications to New York City (NYC) seismic risk and associated codes". The NYNE Younger Members Committee (YMC) organized the mini-symposium, which was attended by over 180 engineers, city officials, and interested public. All lectures and panel discussion slides are [available online](#), and can be accessed through the [NYNE Chapter website](#). Pictured above are some of the NYNE-EERI YMC volunteers who helped make this event happen.

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▶ Haselton Baker Risk Group is Hiring!

**R&D engineering position open with the SP3 Team:** Haselton Baker Risk Group is expanding its research team and looking for a R&D engineer to help further advance the seismic risk assessment methods in the SP3 software platform. HBRG is looking for someone who wants to be a member of a nimble team creating software that will have a large impact on society, and who would excel in the exciting and fast-paced environment of a start-up company. Full-time team member in-person at the Chico, CA office location preferred, but for exceptional candidates, part-time or remote work may be considered. Compensation may also be negotiated to include company equity and profit sharing in this quickly growing start-up. Please read the completed [job posting](#) and provide your application information to [Angie Carpenter](#).



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▶ EERI 2017 Summer/Fall Post-Graduate Internship Opportunity - Apply Now!



**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. **Applications should be submitted by May, 31 2017.**

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

[View Internship Posting and Apply](#)

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## 📅 OPPORTUNITIES FOR YOUNG PROFESSIONALS - MAY 1, 2017

### ▶ 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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## 📖 PUBLICATIONS

### ▶ Earthquake Spectra: Preprint Manuscripts

Three preprint manuscripts have been posted to the *Earthquake Spectra* website prior to formal publication. The papers to be published are:



- A Call to Refocus Research Goals for the Development of Seismic Optimization Methods by **Orlando Arroyo** (M. EERI, 2015) and **Abbie B. Liel** (M. EERI, 2009)
- Non-Ergodic Site Response in Seismic Hazard Analysis by **Jonathan P. Stewart** (M. EERI, 1994), **Kioumars Afshari** (M. EERI, 2015), and **Christine A. Goulet** (M. EERI, 2004)
- Trimming a Hazard Logic Tree with a New Model-Order-Reduction Technique by **Keith Porter** (M. EERI, 1998), **Edward Field** (M. EERI, 1992), and Kevin Milner

To read all current preprint manuscripts posted, visit [Earthquake Spectra preprints](#).

If you have questions about *Spectra*, contact Managing Editor Liz Stalnaker at [liz@eeri.org](mailto:liz@eeri.org)

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## WELCOME NEW MEMBERS

### ▶ Welcome New Members

EERI welcomes members who have recently joined the Institute. If you wish to connect with your fellow members, you can locate their contact information in the [EERI online membership directory](#), which requires logging in to the Member Resources Area of the EERI website.

#### **E-Affiliate**

Edwin Castrillo, UNAN-Managua, *Civil*

Christian Salazar Acuna, Universidad Nacional de Ingenieria-Peru, *Geotechnical*

#### **Student**

Ata Mohseni, UCSD

Logan Perry, Virginia Tech

Rajendra Soti, Oregon State University

Mandip Subedi, Tribhuvan University, *Geotechnical*

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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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