



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

▶ 2020 EERI Board Election Nominees

The following candidates have been nominated for the 2020 EERI Board of Directors. EERI members will vote for their candidates from October 1 to November 1, 2019.



**David
Cocke**



**Jonathan
Stewart**



**Zia
Zafir**



**Cale
Ash**



**Terri
Norton**

President-Elect:

David Cocke, President, Structural Focus, Gardena, CA (M.EERI,1992)

Director A:

Jonathan P. Stewart, Professor of Civil and Environmental Engineering, UCLA, Los Angeles, CA (M. EERI,1994)

Zia Zafir, Vice President for Earthquake Engineering, Kleinfelder, Sacramento, CA (M.EERI,2001)

Director B:

Cale Ash, Office Director and Principal, Degenkolb Engineers, Seattle, WA (M.EERI,2003)

Terri Norton, Associate Dean of Students & Strategic Initiatives and Associate Professor of Civil & Environmental Engineering, Bucknell University, Lewisburg, PA (M.EERI,2004)

You can make additional nominations in accordance with Article VII of the EERI Bylaws (Section 5), upon submission of a petition with signatures of at least 25 voting members for each elected Director's office and at least 50 voting members for the office of President-elect. [See the Bylaws for full details.](#) Petitions must be received before September 1, 2019. Biographies of the candidates and short vision statements will be published in a future issue of the Pulse and posted on the EERI website.

EERI thanks the Nominating Committee: Marshall Lew (chair), Mary Comerio, Jim Malley, Danielle Mieler, and Judith Mitrani-Reiser.

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▶ Just announced! Symposium on the 2018 M7.1 Anchorage earthquake

In partnership with the [Alaska Earthquake Center](#), join us September 24-26 in Anchorage for a [special symposium on the 2018 M7.1 Anchorage Earthquake](#). Early-bird pricing ends August 31, so make sure to [reserve your seat](#) now!

The Nov. 30, 2018, M7.1 Anchorage Earthquake in Southcentral Alaska was the most impactful earthquake in the U.S. in many years, presenting a major learning opportunity for the U.S. earthquake risk reduction community. At this symposium, you'll get to connect with others in the field, hear the latest research, and access learning opportunities to stimulate new investigations and collaborations.

Drawing on local and national experts in a wide range of disciplines related to earthquake research and practice, the symposium will cover a wide range of topics, including but not limited to: seismology, geology, ground motion, structural and geotechnical engineering, lifelines, public health, emergency management and response, tsunami monitoring and modeling, school safety, and public policy.

Learn more about the symposium [here](#), including registration information, agenda, and logistics.

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▶ Join our team — EERI is hiring a Program Coordinator!

We're seeking a proactive, creative, and tech savvy Program Coordinator. Due to our recent work in Ridgecrest, **we've extended the application deadline to Wednesday, August 7**. Click [here](#) for the full job description and please help us spread the word!

This is a great opportunity for someone who is enthusiastic about engaging our members to help bring about real change in reducing earthquake risk and promoting public safety. The Program Coordinator will support implementation of various externally and internally funded projects, programs, and strategic initiatives. Some technical knowledge is preferred, but not required.

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ONE YEAR LATER
SYMPOSIUM ON THE 2018 M7.1 ANCHORAGE EARTHQUAKE

Hotel Captain Cook, Anchorage, AK | Sept. 24-26, 2019

<https://earthquake.alaska.edu/eqsymposium>

- Document the consequences of the earthquake
- Identify the important lessons learned
- Formulate an agenda for future research

The poster features a stylized illustration of a two-story house with a garage, set against a light blue background with silhouettes of trees.

PUBLICATIONS

▶ Earthquake Spectra: August 2019 (Vol. 35 Issue 3) just released

The August 2019 issue of Earthquake Spectra (Vol. 35 Issue 3) is [now available online](#). We've just mailed out print copies of the new issue. You may order additional copies, as well as past issues from the [EERI Knowledge Center & Online Store](#). Some highlights of this issue include:

- "Deformation Capacity Limits for Reinforced Concrete Walls" by **Alex V. Shegay** (M.EERI,2018), **Christopher J. Motter** (M.EERI,2014), **Kenneth J. Elwood** (M.EERI,1994) and **Richard S. Henry** (M.EERI,2014)

- "Centrifuge Testing of Circular and Rectangular Embedded Structures with Base Excitations" by **Elnaz Esmaeilzadeh Seylabi** (M.EERI,2019), Eva Agapaki, **Dimitris Pitilakis** (M.EERI,2016), **Scott Brandenburg** (M.EERI,2001), **Jonathan P. Stewart** (M.EERI,1994) and Ertugrul Taciroglu
- "Impacts of Simulated M9 Cascadia Subduction Zone Motions on Idealized Systems" by **Nasser A. Marafi** (M.EERI,2014), **Marc O. Eberhard** (M.EERI,1990), **Jeffrey W. Berman** (M.EERI,2000), Erin A. Wirth and **Arthur D. Frankel** (M.EERI,1994)
- "Development and Validation of Fragility Functions for Buried Pipelines Based on Canterbury Earthquake Sequence Data" by **Xavier Bellagamba** (M.EERI,2017), **Brendon A. Bradley** (M.EERI,2012), Liam M. Wotherspoon and Matthew W. Hughes
- "Pseudodynamic Test of a Deficient RC Frame Strengthened with Buckling Restrained Braces" by **Ramazan Ozelik** (M.EERI,2017) and **Elif Firuze Erdil** (M.EERI,2017)
- "Optimal EDPs for Post-Earthquake Damage Assessment of Extended Pile-Shaft-Supported Bridges Subjected to Transverse Spreading" by **Xiaowei Wang** (M.EERI,2019), Abdollah Shafieezadeh and **Aijun Ye** (M.EERI,2019)
- "Geophysical Study and 3-D Modeling of Site Effects in Viña del Mar, Chile" by Luis Podestá, **Esteban Sáez** (M.EERI,2016), Gonzalo Yáñez and Felipe Leyton



Structural Damage Due to the 2017 M5.4 Earthquake near Pohang City, Korea

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MEMBER SPOTLIGHT

► Jorge Meneses discusses the San Diego-Tijuana earthquake scenario

Jorge Meneses (M.EERI,2006), member of EERI Board of Directors and president of EERI's San Diego Regional Chapter, was featured in the San Diego Union Tribune this month discussing the [earthquake scenario for the San Diego-Tijuana Region](#).

"If there's an earthquake, there's going to be an impact on that. Not only in the functioning of the border, but also in the trade that exists between San Diego and Tijuana," said Jorge, as quoted in the article. "The highway that accesses the border is likely to be affected by liquefaction problems on both sides."

At the EERI Annual Meeting and National Earthquake Conference in March 2020, Jorge and the rest of the scenario team, will unveil results from the scenario and risk study — developed over the last five years — showcasing the impacts and consequences of a future M6.9 earthquake on the Rose Canyon fault that runs through the San Diego harbor.

Read the full article [here](#).

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STUDENT LEADERSHIP COUNCIL

▶ SLC wraps up successful annual retreat

Last week two dozen officers and members of the **EERI's Student Leadership Council (SLC)** convened at the EERI headquarters in Oakland, Calif. for its annual 3-day retreat. Over the course of the retreat, the SLC engaged in team-building activities, elections of their executive committee, and working groups on various topics, such as the Seismic Design Competition and outreach activities. On Thursday evening, **Computer and Structures, Inc.** — EERI's diamond-level subscribing member and longtime supporter of our student activities — generously welcomed the SLC with a catered reception at its headquarters in Walnut Creek. In addition to full days of meetings and planning for the year ahead, the SLC had a chance to reflect and bond over evening dinners and trips to the Exploratorium and the A's game. Congratulations, SLC, on a successful retreat!



Photo: 2018-2019 SLC with EERI staff

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LEARNING FROM EARTHQUAKES

▶ In case you missed it — the latest reports on Indonesia earthquakes and tsunamis

EERI Preliminary Notes on Tsunami Information and Response: Tsunami Generated by Volcanic Activity in the Sunda Strait, Indonesia on 22 December 2018

By Jason R. Patton, Rick Wilson, **Lori Dengler** (M.EERI,1998), Yvette LaDuke, and Kevin Miller

Unlike earthquake-generated tsunamis, this tsunami, generated by the partial collapse of the Anak Krakatau volcano, did not have any ground shaking to serve as a natural warning. This characteristic of tsunamis generated by volcanic eruptions makes them a challenge to mitigate. As a part of EERI's effort to gather and share information, the report summarizes the characteristics of the tsunami, reviews efforts to model inundation, and includes lessons learned and areas for future study. Read the report [here](#).

EERI Preliminary Notes on Tsunami Information and Response: Tsunami Generated by Mw7.5 Sulawesi, Indonesia Earthquake on 28 September 2018

By Jason R. Patton, Rick Wilson, **Lori Dengler** (M.EERI,1998), Yvette LaDuke, and Kevin Miller

Minutes following a M7.5 earthquake in the Sulawesi region, a tsunami hit the coasts of Palu Bay, generating significant loss of life in the area. As part of EERI's effort to gather and share information, various authors have compiled information to better understand the effects of tsunamis and lesson learned about tsunami notification, evacuation, and response activities. Read the report [here](#).

Geotechnical Reconnaissance: The 28 September 2018 M7.5 Palu-Donggala, Indonesia

By H. Benjamin Mason, Aaron P. Gallant, **Daniel Hutabarat** (M.EERI,2019), Jack Montgomery, A. Nicole Reed, **Joseph Wartman** (M.EERI,2002). Contributors: Masyhur Irsyam (Indonesian team leader), Widjojo Prakoso, Didiek Djarwadi, Dandung Harnanto, Idrus Alatas, Paulus Rahardjo, Pintor Simatupang, Aksan Kawanda, Rahma Hanifa.

The U.S. National Science Foundation (NSF)-funded Geotechnical Extreme Events Reconnaissance team conducted six days of extensive fieldwork in November 2018 in Palu City, following the M7.5 Palu-Donggala earthquake. The earthquake had triggered a series of massive landslides, resulting in the collapse of unreinforced and reinforced structures, and generating tsunami waves that impacted coastal areas in Palu Bay, devastating Central Sulawesi. The U.S.-based team collaborated with the Indonesia's Center for Earthquake Studies and the Indonesian Society of Geotechnical Engineers on this reconnaissance effort. Read the report [here](#).

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ANNOUNCEMENTS

▶ **Job opportunity: Disaster science faculty positions at the University of Delaware**

The University of Delaware (UD) is seeking to fill multiple tenure-track/tenured positions in Disaster Science at the Assistant or Associate Professor level. UD seeks engineering and computer science faculty with demonstrated interests in disasters, hazards, risk and crisis, and who would like to work on interdisciplinary teams with social and health scientists. [Learn more](#)

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▶ **NAE releases summer issue on engineering for disaster resilience**

The National Academy of Engineering just released the summer issue of its flagship publication, The Bridge. The articles in this issue present examples of engineering innovation to develop resilient infrastructure. Read the articles [here](#)

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▶ **Call for papers and sessions from the 17th World Conference on Earthquake Engineering**

The 17th World Conference on Earthquake Engineering — happening September 13-18, 2020 in Sendai, Japan — seeks proposals for papers and sessions. Proposals are due August 30, 2019. [Read more](#)

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▶ [Qu-AKE seeks participants for BE Queer Project](#)

The Queer Advocacy and Knowledge Exchange (Qu-AKE) — a national, nonprofit, inclusive network for professionals working in the fields of civil engineering, architecture, urban planning, geosciences and construction — is looking for participants for their [BE Queer Project](#).

The BE Queer Project aims to become a visibility campaign for LGBTQ+ professionals working in the built environment, both in video and written formats. The campaign objective is to tackle the lack of visibility of LGBTQ+ people in the built environment, and to show the public that queer people are successfully contributing to building a better world. Members [Tricia Clayton](#) (M.EERI,2012) and [Eddie Vega](#) (M.EERI,2013) are featured in some of the latest videos.

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NEWS OF THE PROFESSION

▶ [Links to recent news and views](#)

- [San Andreas fault is a 730-mile monster. Ridgecrest earthquake was a tiny taste of the possible destruction \(Los Angeles Times\)](#)
- [Research evaluates what San Diego and Tijuana will do as a region in case of a strong earthquake \(San Diego Union-Tribune\)](#)
- [Earthquake repairs at Anchorage schools could top \\$150M \(Associated Press\)](#)
- [Scientists warn Oregon is lagging in disaster preparedness \(Associated Press\)](#)
- [How some of the world's rarest fish dodged a California earthquake \(The Guardian\)](#)
- [Artists struggle to save Haiti museum after 2010 earthquake \(Associated Press\)](#)

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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

4. Click **Add Calendar**. The calendar will appear on the left side under "Other calendars."

Tuesday, September 24, 2019 - September 26

2018 M7.1 Anchorage Earthquake Symposium

In partnership with the Alaska Earthquake Center, we are hosting a special symposium on the 2018 M7.1 Anchorage Earthquake, September 24-26 in Anchorage. Early-bird pricing ends August 31, so make sure to reserve your seat now! The Nov. 30, 2018, M7.1 Anchorage Earthquake in Southcentral Alaska was the most impactful earthquake in the U.S. in many years, presenting a major learning opportunity for the U.S. earthquake risk reduction community. At this symposium, you'll get to connect with others in the field, hear the latest research, and access learning opportunities to stimulate new investigations and collaborations. Drawing on local and national experts in a wide range of disciplines related to earthquake research and practice, the symposium will cover a wide range of topics, including but not limited to: seismology, geology, ground motion, structural and geotechnical engineering, lifelines, public health, emergency management and response, tsunami monitoring and modeling, school safety, and public policy. Learn more about the symposium, including registration information, agenda, and logistics: earthquake.alaska.edu/eqsymposium

Tuesday, October 01, 2019

Workshop: Site Characterization in the Cascadia Region

This workshop shares perspectives and approaches on characterizing site amplification effects in the Cascadia region. The aim is to go beyond traditional approaches involving Vs30 and generic amplification models imported from other regions, towards approaches that are more region and site-specific. For more information, or to request registration, contact Gail Atkinson (gmatkinson@aol.com) or John Cassidy (john.cassidy@canada.ca).

Tuesday, October 01, 2019

IABEE Third International Bridge Seismic Workshop

"Seismic Hazard Mitigation Measures and Strategies of Transportation Infrastructures"

Seattle, WA

October 1-4, 2019

[More Information & Registration](#)

Tuesday, October 08, 2019 - October 11

5 ICEES

5th International Conference on Earthquake Engineering and Seismology

October 8-11, 2019

Ankara, Turkey

www.5icees.com

Thursday, October 10 2019 1:00 PM - 9:00 PM

SEMINAR: NGA-East

Please join EERI and partners for a one-day seminar on the Next Generation Attenuation Relationships for Central & Eastern North-America (NGA-East).

Confirmed speakers: Yousef Bozorgnia, UCLA Christine Goulet, UCLA Nicolas Kuehn, UCLA Robert Graves, USGS Linda Al Atik, Linda Alatik Consulting Stay tuned for more information!

Tuesday, October 29, 2019 - October 30

APGCE

The Asia Petroleum Geoscience Conference & Exhibition (APGCE)

29 – 30 October 2019

KUALA LUMPUR CONVENTION CENTRE, MALAYSIA

[REGISTER](#)

Monday, December 09, 2019 - December 13

AGU 2019 Fall Meeting

9-13 December 2019 San Francisco, California

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](#)

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](#)

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.](#)

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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