



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

▶ Roger D. Borcherdt Awarded 2016 Bruce A. Bolt Medal

Roger D. Borcherdt (M. EERI, 1973), scientist emeritus at the U.S. Geological Survey and past Shimizu Visiting Professor and consulting professor at Stanford University, is the 2016 recipient of the Bruce A. Bolt Medal. The annual award is presented jointly by the Seismological Society of America (SSA), the Consortium of Organizations for Strong-Motion Observation Systems (COSMOS), and EERI.

The Bolt medal recognizes individuals worldwide whose accomplishments involve the promotion and use of strong-motion earthquake data and whose leadership in the transfer of scientific and engineering knowledge into practice or policy has led to improved seismic safety.

Dr. Borcherdt's career is marked with "exceptional scientific contributions in the fields of seismology and engineering seismology, extraordinarily broad in scope" as noted on the Presidential Distinguished Service Award he received in 2010 as the highest honor of the U.S. Department of Interior. His contributions, evident in 200 publications, include pioneering site-response studies resulting in Vs30 site-response characterization procedures adopted worldwide in building codes and seismic-hazard mitigation maps; theoretical solutions of fundamental wave propagation problems in seismology that extend the mathematical framework for seismology to all linear anelastic media as presented in his graduate level textbook; "scientific leadership in engineering seismology" as noted on his US Department of Interior Meritorious Service award (1993), and participation on several building code committees and advisory panels.

Borcherdt is an honorary member of EERI and has served as editor of *Earthquake Spectra*, EERI Vice President, and Honors committee chair. He is an active member of SSA and charter founding member of COSMOS. He currently chairs the Engineering Criteria Review Board for the San Francisco Bay Conservation and Development Commission and is a past member of several advisory committees, including Federal Emergency Management Agency's Working Group for Development of HAZUS, its Provision Update Committee for NEHRP Recommended Building Code Provisions, and its ATC-58 committee for development of provisions to include advancements in performance based design.

[Read more about Dr. Borcherdt and the Bolt Medal on the SSA website.](#)

[Share this article](#)



Roger D. Borcherdt

▶ Register for the 2016 EERI Annual Meeting Before Tours Fill Up



The Earthquake Engineering Research Institute will hold its 68th Annual Meeting in San Francisco, California, **April 5-8, 2016**.

Registration and full program details are now available on the [2016 Annual Meeting website](#). Tour spots on the Napa Earthquake and Winery field trip, Bay Bridge and Golden Gate Bridge boat tour, and city walking tours are already filling up with early registrants. Secure your spot and save money with the early bird rate by registering now.

For program, logistic, and registration details, visit the [2016 Annual Meeting website](#).

[Share this article](#)

▶ **Contribute Knowledge about Global Building Code Compliance Practices**

The 2014-16 class of EERI Housner Fellows are conducting a survey to better understand existing mechanisms for building code compliance, especially in developing countries. The Fellows invite the EERI membership and broad earthquake risk reduction community to share their knowledge through this survey. The survey can be taken online here: http://uwgreenbay.qualtrics.com/SE/?SID=SV_0w7mlvS7vdv50EZ The completion of the survey will take about 15 minutes. The results of this survey will be used to make appropriate recommendations for a case study project in Nepal where the Fellows will be traveling in early February. Please direct any questions about the survey to housner2014@eeri.org

[Share this article](#)

▶ **EERI Endowment Donors**

EERI would like to thank donors to the Endowment Fund and acknowledge their recent contributions. EERI's Endowment supports innovative projects that assure the Institute's continuing leadership in the earthquake engineering profession.

The list below reflects donations that the Institute received through the end of December 2015.

\$1500

Thomas D. O'Rourke

\$1000

John Aho

John M. Coil

Craig D. Comartin

\$600

G. Rodolfo Saragoni

\$500

Robert E. Bachman

James O. Jirsa

James K. Mitchell

Sissy Nikolaou

Anshel J. Schiff

Kenneth H. Stokoe

L. Thomas Tobin

\$300

Stephen Perloff

\$250

Paul C. Jennings

R. Jay Love

Susan K. Tubbesing

Beverly & Loring Wyllie

\$200

Ricardo Dobry

Donald L. Wells

\$150

Ronald T. Eguchi

\$100

Ian Aiken

Donald G. Anderson

John G. Anderson

Charles Eadie

David Frost

Julio Kuroiwa

Geoffrey R. Martin

Sharon L. Wood

Other Amounts

Kelly E. Cobeen

Jamison Curry

Huseyin Darama

John A. Egan

Lesley Ewing

James Kaklamanos

Timothy McCrink

Victor M. Pavon


Carlos E. Rodriguez

Adrian Rodriguez-Marek

Luis Romero

Peter Somers

Thank you for your support!

 [Share this article](#)

[Back to top >](#)

 NEWS OF THE PROFESSION

► [Links to Recent News and Views](#)

Ten recent stories, reports, or opinions from around the Web:

- 1 Recent, moderate B.C. earthquake stirred up big worries** (National Post) "It was an earthquake, moderate in power but impossible to ignore." <http://news.nationalpost.com>
- 2 Earthquake authority offers new insurance options, rebates** (San Francisco Chronicle) Less than 10 percent of homes in California have earthquake insurance. <http://www.sfchronicle.com>
- 3 Haiti earthquake victims still homeless** (ABC News Australia) Pausing to mourn six years after disaster, while struggling to rebuild with 60,000 still in camps. <http://www.abc.net.au>

- 4 **Anger in Haiti over misspent aid** (PRI) "I really think that we missed an opportunity to transform Haiti, and to transform the way that disaster responses are done." <http://www.pri.org> ↗
- 5 **Crossing the Rubicon for disaster response** (devex.com) Improving overseas disaster response and finding new ways to bring military veterans into humanitarian operations. <https://www.devex.com> ↗
- 6 **Our Big One** (Kitsap Sun) A Seattle Fault earthquake could bring death and destruction far greater than anything ever seen in the Puget Sound region. <http://www.kitsapsun.com> ↗
- 7 **New Geological Evidence Aids Tsunami Hazard Assessments from Alaska to Hawaii** (USGS Newsroom) New evidence provides geological data to aid tsunami hazard preparedness efforts around the Pacific Rim. <http://www.usgs.gov> ↗
- 8 **Fracking shakes the American west** (The Guardian) Seismologists' warnings divide residents, politicians and companies, while temblors increase around the region. <http://www.theguardian.com> ↗
- 9 **Satellites dissect Nepal quake** (BBC News) Deep anatomy of last year's devastating quake in Nepal is revealed in a new analysis by scientists. <http://www.bbc.com> ↗
- 10 **There is no reliable method for predicting earthquakes** (The Oregonian) Short-term earthquake prediction remains elusive, but modern earthquake science can improve the resilience of communities to earthquakes. <http://www.oregonlive.com> ↗

🔗 [Share this article](#)

[Back to top >](#)

📄 ANNOUNCEMENTS

▶ Oregon Students Raising Money to Relocate School Before Tsunami

Students in the Seaside School District of Clatsop County, Oregon, have started a [Go Fund Me campaign](#) ↗ to relocate all campuses to locations safe from a tsunami generated by a major earthquake.

The effort comes after media coverage of a future Cascadia Subduction Zone earthquake highlighted the vulnerability of the schools to tsunamis, and a \$128 million bond measure to relocate the schools failed to pass in 2013.

The campaign notes: "Our evacuation route for the high school is 1.6 miles and we have to cross the highway and a bridge that has not been earthquake retrofitted; Broadway Middle School has a mile route and they also have to cross a bridge that we hope will still be standing; Gearhart Elementary School only has to go about a quarter mile to get to their Tsunami evacuation destination, but they go towards the ocean. Their only option is evacuate to a ridge that is only 45 feet in elevation; far under the 80-100 feet scientists recommend."

The campaign has raised \$2,850 of the \$200 million target.

[Seaside students want to relocate schools before big quake](#) ↗ (KGW-Portland)

[Go Fund Me page for "Don't Catch This Wave" campaign](#) ↗



[Share this article](#)

► Open Positions at FEMA

The Federal Insurance and Mitigation Administration, Risk Reduction Division, Building Science Branch, has vacant positions available, with these announcements to close **January 25, 2016**.



The Risk Reduction Division works to reduce risk to life and property through the use of land use controls, building practices, and other tools. These activities address risk in both the existing built environment and in future development, and they occur in both pre- and post-disaster environments. [More about the Building Science Branch](#)

Architect MP - <https://www.usajobs.gov/GetJob/ViewDetails/425024300>

Architect DE - <https://www.usajobs.gov/GetJob/ViewDetails/425023800>

Physical Scientist MP - <https://www.usajobs.gov/GetJob/ViewDetails/425025000>

Physical Scientist DE - <https://www.usajobs.gov/GetJob/ViewDetails/425024800>

Civil Engineer MP - <https://www.usajobs.gov/GetJob/ViewDetails/425025300>

Civil Engineer DE - <https://www.usajobs.gov/GetJob/ViewDetails/425025200>

[Share this article](#)

[Back to top >](#)



📖 OPPORTUNITIES FOR STUDENTS

► Liu Huixian Earthquake Engineering Scholarship Awards for Graduate Students

In honor of the late Professor Liu Huixian, who is considered to be the founder of earthquake engineering in China, the Huixian Earthquake Engineering Foundation (China) and the US-China Earthquake Engineering Foundation (USA) are pleased to announce that approximately ten (10) Liu Huixian Earthquake Engineering Scholarship Awards are available in 2016.

Applicants must be students pursuing a master's or doctor's degree in earthquake engineering or closely related fields, who are enrolled in universities and research institutes in China, the USA, or Singapore, or are enrolled in member-organizations of the Asian-Pacific Network of Centers for Earthquake Engineering Research (ANCER).

Application materials should be submitted in electronic version to the Secretariat of the Huixian Earthquake Engineering Foundation by **June 30, 2016**:

<http://hxeeef.iem.cn/>  external link icon – Huixian Earthquake Engineering Foundation, and <http://www.iem.ac.cn/>  external link icon – Institute of Engineering Mechanics of China Earthquake Administration (IEM, CEA).

The Huixian Earthquake Engineering Foundation, China
President: Professor **Qi Xiaozhai**

The US-China Earthquake Engineering Foundation, USA
President: Professor **George C. Lee** (M. EERI, 1983)

Contact information:

Ning Xiaoqing

Tel.: +86-18745153617

Zhang Guixin

Secretariat of Huixian Earthquake Engineering Foundation

Tel.: +86-18686745312

Add: 9 Xuefu Road, Harbin 150080, China

E-mail: hxeef@iem.cn; hxeef@iem.ac.cn

Web: <http://hxeef.iem.cn/> 

Liu Huixian Earthquake Engineering Scholarship Award: Description and Guidelines ([PDF](#))


Application Form for the Liu Huixian Earthquake Engineering Scholarship Award ([Word document](#))

 [Share this article](#)

► [Erasmus+ Master in Earthquake Engineering and/or Engineering Seismology \(MEEES\)](#)

Applications for the Erasmus Masters in Earthquake Engineering and Engineering Seismology (MEEES) are being accepted, with a deadline of **March 30, 2016**. MEEES is organized by a consortium of European university and research institutions, led by [IUSS Pavia's UME School](#) and featuring the participation of the University of Patras (Greece), the University of Grenoble Joseph Fourier (France), and the Middle East Technical University (Turkey).

Scholarships are available to applicants from all nationalities. For details and the online application procedure, visit www.meees.org

 [Share this article](#)

[Back to top >](#)

CHAPTER SPOTLIGHT

► [Nor-Cal Chapter Presents Awards for Innovation and Exemplary Practice](#)

The Northern California Chapter of EERI presented its 2015 Awards for Innovation and Exemplary Practice in Earthquake Risk Reduction at its December meeting. **Craig Comartin** (M. EERI, 1987) was selected for the individual award for his leadership and dedication in creating the Concrete Coalition and advancing the practice of performance-based engineering. Comartin was recognized as "a guiding light on innovative approaches to earthquake risk mitigation – providing focus and direction, while selflessly dedicating himself to his profession and the public." He will also receive EERI's 2016 Alfred E. Alquist Medal at the Annual Meeting in April.


The Water System Improvement Program by the San Francisco Public Utilities Commission (SFPUC) was also selected for a 2015 award. Part of the multi-year capital improvement program included designing and building seismic resilient facilities that deliver water reliably in the event of a major earthquake within the Bay Area region, including earthquakes on any one of the three major faults (Calaveras, Hayward, and San Andreas that



Betsy Matheison with Katie Miller, P.E. and Alan Johanson of the SFPUC team.

the regional system crosses. The SFPUC performance criteria were critical for the implementation of hydraulic network modeling to assist system planning, and the integration of project designs and construction management to deliver specific water supply targets. The criteria serve as an important model of the type of system-wide lifeline system performance goals needed to support community resilience.

[Read more on the Nor-Cal Chapter website](#) 

 [Share this article](#)

[Back to top >](#)

PUBLICATIONS


► Earthquake Spectra: Preprint Manuscripts

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

**EARTHQUAKE
SPECTRA**

- "Out-of-Plane Dynamic Stability of Unreinforced Masonry Walls in One-Way Bending: Shake Table Testing" by **Osmar Penner** (M. EERI, 2016) and **Kenneth J. Elwood** (M. EERI, 1994)
- "Out-of-Plane Dynamic Stability of Unreinforced Masonry Walls in One-Way Bending: Parametric Study and Assessment Guidelines" by **Osmar Penner** (M. EERI, 2016) and **Kenneth J. Elwood** (M. EERI, 1994)
- "Quintuple Friction Pendulum Isolator-Behavior, Modeling and Validation" by **Donghun Lee** (M. EERI, 2015) and Michael C. Constantinou
- "Responses of a tall building in Los Angeles, California as inferred from local and distant earthquakes" by **Mehmet Çelebi** (M. EERI, 1980), Hasan S. Ulusoy and Nori Nakata
- "On uncertainties in PSHA" by Mario Ordaz and Danny Arroyo
- "The Public's Role in Seismic Design Provisions" by Michael Davis and **Keith Porter** (M. EERI, 1998)
- "Ground Motion Model for the Vertical-to-Horizontal (V/H) Ratios of PGA, PGV, and Response Spectra" by **Yousef Bozorgnia** (M. EERI, 1986) and **Kenneth W. Campbell** (M. EERI, 1975)

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

 [Share this article](#)

[Back to top >](#)

MEMBER SPOTLIGHT

► Welcome New EERI Members

EERI welcomes the 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.

STUDENT MEMBERS

Miguel Bernabe, UC Berkeley, *Civil*

Alexander Chen, UC San Diego

Jacob Darlington, Univ of WI - Madison

Andreas G. Gavras, UC Davis, *Geotechnical*

Marta Giaretton, University of Padova

Ellen Key, UCLA, *Civil*

Emre Kizilarslan, Univ of WI - Madison

Richard Lu, UCLA, *Civil*

Kevin Mahoney, UC Berkeley, *Civil*

Sunil Nataraj, Visvesvaraya Tech University

Le Pham, Univ of WI - Madison

Guillermo Riveros, University of Western Ontario, *Civil*

Stephen Shelnutt, UC Berkeley, *Civil*

Stella Te, UC Berkeley, *Civil*

Shuo Wang, Univ of WI - Madison Peter Weatherer, Univ of WI - Madison Loyd West, University of NV - Reno, *Geophysicist*

Jennifer Yasui, UC Davis

Cumhur Yilmaz, Gebze Institute of Technology (GIT)

Jin Yu, Univ of WI - Madison

Alan Yuan, University of British Columbia, *Civil*

 [Share this article](#)

[Back to top >](#)

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, October 29, 2019 - October 30

APGCE

The Asia Petroleum Geoscience Conference & Exhibition (APGCE)

29 – 30 October 2019

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.



Earthquake Engineering Research Institute

499 14th Street, Suite 220, Oakland, CA 94612-1934 USA

phone: 510-451-0905 | fax: 510-451-5411 | email: eeri@eeri.org | website: www.eeri.org

Copyright © 2019 EERI. All Rights Reserved.

