



## 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

#### ▶ Save the Date: Central Italy Earthquake Webinar Briefing

On Friday, **October 28, 2016**, 3:00-5:00 pm, Pacific time, EERI's Learning from Earthquakes program, the [Geotechnical Extreme Events Reconnaissance \(GEER\) Association](#) and the [Pacific Earthquake Engineering Research Center \(PEER\)](#) will cohost a webinar briefing on reconnaissance conducted after the Central Italy earthquake of August 24, 2016.



The briefing will take place in the CNSI auditorium on the campus of the University of California, Los Angeles. In addition to presentations by EERI and GEER researchers, Italian researchers will call in for the webinar to contribute key reconnaissance findings.

More information on the October 28, 2016 webinar will be released in the coming days by email blast, on the [EERI website](#) and the [Central Italy virtual clearinghouse website](#).

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#### ▶ 2017 EERI Annual Meeting Session Preview: NEHRP at 40

2017 marks the 40th anniversary of the National Earthquake Hazards Reduction Program (NEHRP) established by Congress with its passage of the Earthquake Hazards Reduction Act in 1977. NEHRP authorized federal government involvement and funding for a long-term nationwide program to reduce risks to life and property from earthquakes.

A session to celebrate the key accomplishments of NEHRP over the past forty years, and consider the future role of the federal government in achieving nationwide seismic resilience, will be part of the 69th Annual Meeting in Portland, Oregon, March 7-10, 2017.

The "NEHRP at 40, Where We Go from Here" session being planned will celebrate the program's key accomplishments, recognize the refined focus that federal programs are now developing, and underscore the programs and needs that require a uniform national perspective and sustained federal involvement in order to improve nationwide seismic resilience.

**Save the dates** on your calendar to join us at the EERI Annual Meeting in Portland on **March 7-10, 2017**.

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### ► **Employment Opportunity: EERI Membership and Communications Manager**

EERI seeks a creative and experienced association professional to become its Membership and Communications Manager. This person will be a primary liaison with the Institute's 2,800 members with lead responsibility for membership retention and recruitment campaigns. The Membership and Communications Manager will also be responsible for planning, developing and implementing an integrated communications and public relations plan to increase the overall branding, visibility and reach of the Institute.



The Membership and Communications Manager will be self-motivated, flexible, a great communicator and enthusiastic team player. An interest in or willingness to learn more about earthquake engineering and global hazards risk reduction is essential. Some travel required. The starting salary is \$70,000 to \$75,000, and is based on qualifications and experience.

EERI is a non-profit membership-supported technical association with an international audience. The Institute serves as the U.S. national society for earthquake professionals and undertakes a number of projects and programs for federal and international agencies and foundations, as well as internally funded projects that benefit the Institute, its members, and the larger hazards reduction community.

EERI provides a comprehensive employee benefits package, paid vacation, holidays, sick days, and a casual professional work environment in City Center Oakland on the BART line.

#### **Primary Membership Responsibilities include:**

- Develop comprehensive programs for membership recruitment and retention, including conducting email and letter campaigns; managing and motivating members to participate in various programs and activities; writing and producing promotional materials; developing and directing ongoing membership marketing activities; analyzing results; and implementing new strategies and programs.
- Carry out short- and long-range planning for membership development campaigns, including annual strategy plans for both membership development and retention.
- Participate in the development of EERI's policies affecting membership and support the membership committee.
- An active role in advertising, planning and executing workshops, annual meetings and conferences.

#### **Primary Communications Responsibilities include:**

- Create overall association marketing, communications and branding strategies, including the creation of marketing plans, timelines and assessment tools.
- Create marketing and communications strategy for webinars, seminars, conferences and advocacy initiatives.
- Serve as primary writer and editor of EERI newsletters and special reports, and supervise all outside vendors in their preparation.
- Contribute to the administration and maintenance of EERI's websites.
- Develop a targeted media relations plan that powerfully communicates EERI's vision, mission and accomplishments.
- Ensure the timely development of EERI marketing and communication pieces, including newsletters, email blasts, press releases, feature articles and promotion pieces.

#### **Preferred Background:**

**Education:** College degree in a related field

**Technical Skills:** Proven experience/skills in marketing, writing copy, publication production, social media management, website and webinar production, and short- and long-range planning. Demonstrated proficiency with Microsoft Office Suite and Adobe Suite products. Membership and association management software experience a plus.

**Relevant Experience:** Minimum 4 years experience in an association, non-profit or similar organization with a significant track record in membership development and retention, marketing, communication and media relations.

APPLICATION DEADLINE: **October 31, 2016**

Candidates should send a letter of interest and resume with supporting qualifications to [jobs@eeri.org](mailto:jobs@eeri.org). All applications will be kept in confidence. No calls please.

[Membership and Communications Manager Opportunity Flyer \(PDF\)](#)

Thank you for your interest in working with EERI.

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### ► **Employment Opportunity: EERI Program Associate**

EERI seeks a dynamic, creative, experienced, and technology-aware Program Associate. This person will be a key staff member with internal and external responsibilities for multiple projects and programs. The Program Associate will also provide support or lead on a range of association activities such as webinars, annual meetings, conferences, and member and chapter relations.



The Program Associate must be self-motivated, flexible, an excellent communicator, and an outstanding team player. This position requires someone eager to learn and innovate, and ready to take responsibility. An interest in and knowledge of earthquake engineering and hazard risk reduction is highly desirable.

The Program Associate should be adept and comfortable working in a collaborative working environment. Some travel is required. The starting salary is \$65,000 to \$70,000, and is based on qualifications and experience.

EERI is a non-profit membership-supported technical association with an international audience. The Institute serves as the U.S. national society for earthquake professionals and undertakes a number of projects and programs for federal and international agencies and foundations, as well as internally funded projects that benefit the Institute and its 3,000 members. More information on EERI programs and projects can be found at [EERI Projects](#).

EERI provides a comprehensive employee benefits package, paid vacation, holidays, sick days, and a casual professional work environment in City Center Oakland on the BART line.

#### **Primary Responsibilities include:**

- Support for program development, budgeting, management and reporting
- Support and guidance for selected technical and administrative committees
- Shared oversight and mentoring of EERI interns
- Development and planning for EERI webinars, annual meetings and conferences
- Building and maintaining strong relationships with partner organizations, funding agencies and EERI members

#### **Desired Relevant Experience:**

- Proven ability to effectively manage multiple projects and assignments

- Two or more years experience in a related field or position
- Experience with meeting planning and organizing, both in-person and online
- Hands-on successful program management experience
- Mobilizing and coordinating professional-level volunteers
- Working with professionals from a range of disciplines and backgrounds
- Working with students and student groups at the university level
- Experience working with non-profit organizations
- Experience with a professional society as an engaged member
- Familiarity with the hazard risk reduction community

APPLICATION DEADLINE: **October 19, 2016**

Candidates should send a letter of interest and resume with supporting qualifications to Jay Berger, Executive Director, at [jobs@eeri.org](mailto:jobs@eeri.org). All applications will be kept in confidence. No calls please.

[Program Associate Opportunity Flyer](#) (PDF)

Thank you for your interest in working with EERI.

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## NEWS OF THE PROFESSION

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

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

- 1 Heightened earthquake risk temporarily closes San Bernardino City Hall** (Los Angeles Times) Comes in response to USGS alert after Salton Sea earthquake swarm. [latimes.com](http://latimes.com) 
- 2 San Andreas Earthquake Swarm: How Mini-Quakes Affect Risk of Big Ones** (LiveScience) How the risk of an earthquake of magnitude 7.0 or greater in Southern California shot up to between 1 in 300 and 1 in 100. [livescience.com](http://livescience.com) 
- 3 Why the risk of the 'Big One' in British Columbia is heightened every 14 months** (CBCNews) Thousands of tiny tremors rumble unfelt across the Pacific Northwest indicating a 'slow-slip' event is taking place. [cbc.ca](http://cbc.ca) 
- 4 Japanese scientists divided over earthquake prediction research** (ABC-AU) Just because a fault line hasn't ruptured for a while, does an earthquake become "due" - or, even worse, "overdue?" [abc.net.au](http://abc.net.au) 
- 5 Wait, I thought we couldn't predict earthquakes** (Popular Science) Moving away from trying to predict earthquakes and towards preparing for them with early warning. [popsci.com](http://popsci.com) 
- 6 New York unveils flashy upgrades for disaster-proof bridges and tunnels** (The Architects Newspaper) Seismic isolation and "jazzy, customized LED installations." [archpaper.com](http://archpaper.com) 

**University of Washington will host global center for disaster reconnaissance, research** (Seattle Times) National Science Foundation picks UW to host post-disaster, rapid response research facility. [seattletimes.com](http://seattletimes.com) 

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**8 Photos of the Quake Damaged Christchurch the Public Never Get to See** (Vice) Urban explorer photographers that have sneaked into the "red zone." [vice.com](http://vice.com) 

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**Clues to ancient earthquakes in caves** (EarthSky) Can disruptions of mineral growth within stalagmites correlate with large paleoearthquakes? [theconversation.com](http://theconversation.com) 

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**A second fault line running parallel to San Andreas has just been identified** (Science Alert) "This previously unidentified fault represents a new hazard to the region and holds significant implications for fault models." [sciencealert.com](http://sciencealert.com) 

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### ▶ CEA Awards PEER Research Contract on Seismic Performance of Retrofitted Homes

The **California Earthquake Authority** (CEA) (EERI Gold Subscribing Member) has awarded a \$3.4 million, 3.5-year research contract to the **Pacific Earthquake Engineering Research Center** (PEER) (EERI Bronze Subscribing Member) to evaluate the seismic performance of residential homes.



With a goal of contributing to the improvement of seismic resiliency of California's housing stock, the multi-year project will quantify the performance of retrofit of cripple walls and sill anchorage in single-family wood-frame buildings.

PEER's project team includes researchers from UC Berkeley, UC Irvine, UCLA, UC San Diego, and Stanford University, as well as experienced practicing engineers in California. More information can be found on [PEER's website](#). 

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## ANNOUNCEMENTS

### ▶ Great ShakeOut is October 20

*Great ShakeOut Earthquake Drills* are being held across the country and worldwide on **October 20** at 10:20 a.m. (local time) and will involve more than 40 million people. ShakeOut is a one-minute earthquake drill that started in California and is now a global movement where participants practice **Drop, Cover, and Hold On**  and other aspects of their emergency plans. to date, over 18.2 million participants are registered to be part of ShakeOut on October 20, 2016.



Prepare for Great ShakeOut Earthquake Drills by browsing resources and checklists, learning how to participate, and registering on the ShakeOut website: [www.shakeout.org](http://www.shakeout.org)

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### ▶ SEAOSC Summit: Strengthening Our Cities on Nov 17-18

The Structural Engineers Association of Southern California (SEAOSC) will convene the Strengthening Our Cities Summit in Los Angeles, California, **November 17-18, 2016**.



The event brings together government, business, and technical experts to better understand the risks of earthquakes and how to mitigate losses. In addition to convening officials and experts, the summit's goals include educating attendees on the latest tools, techniques, and rules for evaluating building performance and seismic stability, and highlighting trends and best practices for cities, building owners, and businesses in addressing existing buildings.

Learn more and register at <http://seaosc.org/summit>

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### ► Research Positions Open at USGS

The U.S. Geological Survey Earthquake Science Center (ESC) seeks to fill two research positions within the broad area of improving prediction, understanding, and mapping of earthquake shaking and/or secondary effects, such as ground failure. These are permanent positions classified as a Research Geophysicist, Research Geologist, or Research Civil Engineer in either Menlo Park, CA, or Seattle, Washington.



Successful applicants will be expected to make significant contributions to a vigorous program of earthquake hazard assessments. Research results should have direct impacts on: ground-motion prediction equations; hazard maps; site specific designs and retrofits of critical and major facilities; evaluations of current engineering design practice; improving building codes and emergency planning; educating the general public using ground-motion time histories; modeling earthquake-induced damage patterns and damage to specific structures; regional seismic hazard assessments for seismic zonation; and/or calculation of actuarially sound earthquake insurance premiums.

Successful applicants will utilize applied mathematics, seismology, geophysics, engineering seismology, and/or geotechnical engineering to conduct original research in observational ground-motion methods, modeling physical processes that characterize the generation and propagation of seismic waves, and/or failure of near-surface materials. Research studies might include field investigations with temporary seismic deployments or mapping and exploring near-surface complex Quaternary deposits, and/or numerical modeling of Earth structure and source, path, and site effects. Methods employed may involve inversions of seismic records for earthquake ruptures and 3D elastic and anelastic properties; development of models grounded in seismological theory; characterization of how subsurface and topographic conditions may modify ground motions; development of realistic scenarios forecasting earthquake ground motions using earthquake rupture simulations and modeling of 3-D wave propagation and site response; and prediction of permanent deformation associated with ground failure. Research products will feed directly into probabilistic and deterministic seismic hazard maps.

Applications (resume and responses to application questions) for this vacancy must be received online via USAJOBS before Wednesday, **November 23, 2016**. Resumes MUST adhere to the format prescribed on USAJOBS, including full narrative descriptions of "Duties, Accomplishments and Related Skills" for past work experience. Transcripts, etc. MUST be attached as required by the Vacancy Announcement. A full description of the job opening, qualifications and instructions on how to apply can be found at: <https://www.usajobs.gov/GetJob/ViewDetails/453100400/>

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### ► 16th European Conference on Earthquake Engineering June 18-21, 2018

The 16th European Conference on Earthquake Engineering (16ECEE) will be held in Thessaloniki, Greece, **June 18-21, 2018**.

The program, organized by the European Association for Earthquake Engineering and the Hellenic Society of Earthquake Engineering, will encompass recent advances in soil dynamics, structural earthquake and geotechnical engineering, geology and engineering seismology, with roundtable discussions and workshops to broaden the horizons of earthquake engineering and reinforce international cooperation.



For more information on the conference, including tours, key dates and abstract submission procedures, visit

<http://www.16ecee.org/> 

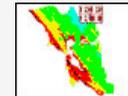
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## CHAPTER SPOTLIGHT

### ▶ Northern CA Chapter Oct 20 Meeting: Performance-Based Engineering to Urban Resilience

**Greg Deierlein** (M. EERI, 1989) and **Henry V. Burton** (M. EERI, 2011) will explore challenges to utilizing performance-based engineering as a tool to address specific aspects of resilience and evaluate policies that are intended to enhance community resilience at the EERI Northern California Regional Chapter meeting on Thursday, **October 20, 2016**.



The presentation will also discuss strategies for enhancing the resilience of tall buildings and highlight the results of a case study of an archetypal 42-story concrete shear wall building located in San Francisco. More information at <http://www.eerinc.org/?p=60783> 

Networking time will begin at 5:30pm and the program at 6:00 pm. RSVP to attend (and pass through building security) at [chapterinfo@eerinc.org](mailto:chapterinfo@eerinc.org)

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### ▶ Utah Chapter: Oct 20 Meeting on USRC Building Rating System

The EERI Utah Regional Chapter and the Structural Engineers Association of Utah (SEAU) will hold a joint fall meeting to present and discuss the US Resiliency Council (USRC) Rating System on Thursday, **October 20, 2016**.



Evan Reis, Director of the USRC, will introduce the rating system, identify the benefits of it, inform how to get a building rated, and describe how structural engineers can get certified to rate buildings. The meeting is open to the public and will be held at the University of Utah, Warnock Engineering Building, Room 103, 72 S Central Campus Drive, Salt Lake City, UT 84112.

Social time begins at 5:30 pm and the meeting from 6:00 to 7:30 pm. To view the presentation via the internet, email Gloria Dearden at [seauexecdirect@comcast.net](mailto:seauexecdirect@comcast.net)

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## PUBLICATIONS

### ▶ Geotechnical Technical Conference Paper from 1981-2013 Now Available Online

Papers and reports from the *International Conferences on Case Histories in Geotechnical Engineering*, a series first envisioned and organized by **Shamsher Prakash** (M. EERI, 1979) in 1984, are available for free download through the Missouri University of Science and Technology (MST) website: <http://scholarsmine.mst.edu/icchge/> 



Also available through the university's Scholars' Mine institutional repository at the Curtis Laws Wilson Library are the reports and papers from the *International Conferences on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics* from 1981-2016: <http://scholarsmine.mst.edu/icrageesd/> 

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### ▶ New PEER Reports Available Online

The **Pacific Earthquake Engineering Research Center** (PEER), an EERI Bronze Subscribing Member, has released new reports available free to download online at the PEER website:



- "Hybrid Simulation Theory for a Classical Nonlinear Dynamical System" ([PDF](#) ) by Paul L. Drazin and Sanjay Govindjee
- "California Earthquake Early Warning System Benefit Study" ([PDF](#) ) by **Laurie A. Johnson** (M. EERI, 1990), **Sharyl Rabinovici** (M. EERI, 2010), **Grace S. Kang** (M. EERI, 1996), and Stephen A. Mahin
- "Ground-Motion Prediction Equations for Arias Intensity Consistent with the NGA-West2 Ground-Motion Models" ([PDF](#) ) by **Charlotte Abrahamson** (M. EERI, 2015), Hao-Jun Michael Shi, and Brian Yang

View all PEER Research Reports at [http://peer.berkeley.edu/publications/peer\\_reports/reports\\_2016/reports\\_2016.html](http://peer.berkeley.edu/publications/peer_reports/reports_2016/reports_2016.html) 

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## 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

Sarah Balaian, University of California Irvine, *Civil*

Heba Bayoumy, McMaster University

Simon Cai, University of California Irvine, *Civil*

Andre Castillo, University of California Irvine, *Civil*  
Amy Chun, San Francisco State University, *Civil*  
Ian Dickeson, Stanford University  
Jana East, University of Memphis, *Civil*  
Gizem Eradas, Karadeniz Teknik Universitesi  
Tyler Fallon, San Francisco State University, *Civil*  
Marlena Fernandez, University of Notre Dame, *Civil*  
Matthew Ficara, McMaster University, *Civil*  
Christopher Garcia, University of Notre Dame, *Civil*  
Berkay Han, Karadeniz Teknik Universitesi  
Matthew Heneghan, University of Notre Dame, *Civil*  
Cole Jaconski, Virginia Tech  
Monica Lee, University of California Irvine, *Civil*  
Lei Li, University of Notre Dame  
Stephanie Ling, Cal Poly Pomona, *Civil*  
Octavio Martin, University of California Irvine, *Civil*  
Esmil Medina, Pontificia Universidad Catolica Madre y Maestra (PUCMM), *Civil*  
Casandra Nunez, Pontificia Universidad Catolica Madre y Maestra (PUCMM), *Civil*  
Altay Firat Ozturan, Karadeniz Teknik Universitesi  
Julio Pimentel, Pontificia Universidad Catolica Madre y Maestra (PUCMM), *Civil*  
Marivid Rijo, Pontificia Universidad Catolica Madre y Maestra (PUCMM), *Civil*  
Feras Sheitt, McMaster University  
William Solano, San Francisco State University, *Geotechnical*  
Jeffrey Spencer, Portland State University, *Civil*  
Carlos Svelti, Pontificia Universidad Catolica Madre y Maestra (PUCMM), *Civil*  
Angela Trang, Stanford University  
Vivian Tseng, University of California Irvine, *Civil*

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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."

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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**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](mailto:eeri@eeri.org) | website: [www.eeri.org](http://www.eeri.org)

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