



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

▶ Chris Poland to be Awarded Housner Medal

Chris Poland (M. EERI, 1978), a practicing structural engineer whose career includes a wide range of professional activity spanning structural design, public policy, advocacy, and service to EERI and the profession, will be presented with the George W. Housner Medal for 2017. The Housner Medal is awarded to recognize Institute members and others who have made extraordinary and lasting contributions to public earthquake safety through the development and application of earthquake hazard reduction practices and policies.



Poland's design work includes seismic analysis and strengthening of existing buildings, structural failure analysis, and historic preservation. After serving as President, CEO, and Chairman at Degenkolb Engineers, Poland left in 2014 to pursue a specialized consulting practice aimed at community resilience and the buildings and systems that contribute to it. He brings a broad, multidisciplinary approach to reducing risk and promoting disaster resilience that reflects the necessity to look beyond the physical environment to include the social, economic and cultural fabric of our cities.

He has represented the profession in testimony to Congress supporting the National Earthquake Hazards Reduction Program (NEHRP) and is a passionate seismic safety advocate at the local, state and national levels. He served as the first Chair of the Advisory Committee to NEHRP, responsible for evaluating and advising the earthquake programs of the National Institute of Standards and Technology, the Federal Emergency Management Agency, and the National Science Foundation. He currently serves as Chairman of the Advisory Committee on Structural Safety of Department of Veterans Affairs Facilities.

Poland's energy and vision in raising public awareness to the risk of earthquakes has had a lasting impact on California and the nation. He served as Chair of the 100th Anniversary Earthquake Conference in San Francisco in April 2006; the Chair of the American Society of Civil Engineers Seismic Rehabilitation of Existing Buildings Standards Committee, which completed both ASCE 31 and ASCE 41; Chairman of the California Strong Motion Advisory Committee, and Member of the Advisory Committee of the California Integrated Seismic Network. He is engaged in innovative local initiatives as a member of the Board of Directors for the San Francisco Planning and Urban Research Association (SPUR), where he co-chairs their Resilient City Initiative. He acted as lead in drafting the publication *The Disaster Resilient City*, a

comprehensive plan now being implemented to promote the resilience of the structural, social and 85 economic elements of the City to reduce risk and improve response and recovery from future disasters.

Inducted into the National Academy of Engineering in 2009, Poland is also a Fellow of the American Council of Engineering Companies and the American Society of Civil Engineers Structural Engineering Institute, as well as an Honorary member of the Structural Engineers Association of California and the Earthquake Engineering Research Institute. Chris served as President of the EERI Board of Directors in 1999-2000.

The presentation of the George W. Housner Medal to Chris Poland will take place at the 69th EERI Annual Meeting in Portland, Oregon, on March 9, 2017.

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▶ Annual Meeting Session Preview: Liquefaction Assessment and Mitigation Techniques

The 2017 EERI Annual Meeting will feature two breakout sessions on liquefaction, ground deformation, and landslides. Academics and practitioners will discuss new developments on seismically-induced soil liquefaction, covering topics related to characterization of liquefaction and mitigation of liquefaction consequences on structures.

Included in the sessions will be updates on the National Research Council project on the state of the art and practice in earthquake-induced soil liquefaction assessment; updates on the Pacific Earthquake Engineering Research Center's Next Generation Liquefaction Models; and a presentation on bio-remediated soils as a liquefaction mitigation technique.

Registration will open in early December for the EERI Annual Meeting in Portland on **March 7-10, 2017**

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[Back to top >](#)



📖 LEARNING FROM EARTHQUAKES

▶ Central Italy Earthquake Briefing Webinar Now Available



The October 28, 2016 webinar briefing that shared findings from reconnaissance activities conducted after the Central Italy earthquake of August 24, 2016 is now available for viewing on the Central Italy Earthquake Virtual Clearinghouse:

<http://www.eqclearinghouse.org/2016-08-24-italy/2016/10/21/italy-earthquake-webinar-briefing-on-october-28-2016/>

The briefing was a collaboration of NSF-sponsored Geotechnical Extreme Events Reconnaissance Association (GEER), Earthquake Engineering Research Institute (EERI), B. John Garrick Institute for Risk Sciences at UCLA, Rete dei Laboratori Universitari di Ingegneria Sismica (ReLUIS), Istituto Nazionale di Geofisica e Vulcanologia, and Eucentre Foundation. Held at the CNSI auditorium on the campus of the University of California, Los Angeles, the event was sponsored by GEER, EERI, B. John Garrick Risk Institute, PEER (Pacific Earthquake Engineering Research Center), and UCLA International Institute.

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► Reconnaissance Reports on Ecuador Earthquake Released

Two new special reports on the M7.8 Muisne, Ecuador Earthquake on April 16, 2016, are now available for download.

The EERI Earthquake Reconnaissance Team's ninety-page report describes the findings of a seven-member international team sent by EERI's [Learning from Earthquakes](#) program from May 9—13, 2016 to investigate building practices, building damage (including hospital damage) as well as tagging and shoring issues. A chapter on geotechnical damage is included from the Geotechnical Extreme Event Reconnaissance (GEER) and Applied Technology Council (ATC) team, while the Earthquake Engineering Field Investigation Team (EEFIT) contributed information on structural damage and a separate appendix on the earthquake refugee camps.



[Download the EERI Earthquake Reconnaissance Team Report \(10 MB PDF\)](#)

Forrest Lanning (M. EERI, 2009) led the EERI team composed of structural engineers from both practice and academia.

Also now available is the full report of the findings by the team formed of members from the Applied Technology Council (ATC) and the Geotechnical Extreme Events Reconnaissance (GEER) Association, sponsored by the National Science Foundation.

The event and its aftershocks led to hundreds of fatalities, thousands of injuries, tens of thousands of people homeless, serious damage and collapses to buildings and infrastructure, and economic impact estimated at 3% of the national GDP. The GEER-ATC reconnaissance team that visited the most affected areas documented the geotechnical, structural and nonstructural performance of the natural and built environment in this report. The reconnaissance has yielded datasets, lessons, and suggestions for future research.



[Download the GEER/ATC report from the GEER website](#)

The EERI reconnaissance team previously produced a series of videos featuring presentations in different topic areas by members of the team that visited Ecuador in May, as well as a presentation by GEER/ATC's co-team leader. Briefing videos can be watched individually or in a series:

[Watch the EERI Ecuador Briefing Videos](#)

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[Back to top >](#)


NEWS OF THE PROFESSION

► Links to Recent News and Views

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

- 1 6.6-magnitude Norcia, Italy tremor destroys ancient buildings** (BBC) 20 injured in Italy's strongest quake in decades. [bbc.com](#)
- 2 The effort to save Italy's earthquake-damaged art and architecture** (Apollo) Architects, engineers, and art historians form crisis units after Central Italy quakes. [apollo-magazine.com](#)
- 3 USGS maps for central U.S. overstate earthquake hazard** (Phys.Org) Kentucky Geological Survey concludes national earthquake hazard maps overstate the hazard in the New Madrid Seismic Zone. [phys.org](#)
- 4 After Hurricane, Haiti Confronts Scars From 2010 Earthquake Recovery** (New York Times) Lessons to keep Haiti from becoming "a population perverted by aid, rather than propelled by it." [nytimes.com](#)
- 5 B.C. Earthquake Threatens Vancouver Buildings** (The Province) More than once, the city has failed to act on its own recommendations for addressing the seismic dangers of older private buildings. [theprovince.com](#)
- 6 It's Official: Injection of Fracking Wastewater Caused Kansas' Biggest Earthquake** (Global Research) USGS says 4.9 magnitude temblor in 2014 linked to wastewater injection. [globalresearch.ca](#)
- 7 Future buildings could 'sense' internal damage after earthquake, says research** (IndiaTV) Scientists at MIT have built a computational model to monitor a building over time for signs of damage or mechanical stress. [indiatvnews.com](#)
- 8 Developers of sinking S.F. tower alter design for new building** (SFGate) San Francisco city officials wonder about seismic resilience of tower foundations that don't reach bedrock. [sfgate.com](#)
- 9 Towards resilient non-engineered construction** (ReliefWeb) A guide for risk-informed policy-making from UNESCO. [reliefweb.int](#)

10 Mapping Europe's earthquake risk (Horizon) Researchers at the EU-funded SHARE project have produced a map displaying which parts of Europe are most at risk from an earthquake. horizon-magazine.eu 

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[Back to top >](#)

ANNOUNCEMENTS

▶ 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.

APPLICATION DEADLINE: **November 3, 2016**

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

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

Please share this job announcement with qualified individuals.

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▶ Reminder: 2016 Shah Family Innovation Prize Nominations By Nov 15



Do you know a young academic or professional making a difference in reducing global earthquake risk? EERI members are encouraged to nominate candidates from government, private firms, academia, and the international community for the 2016 Shah Family Innovation Prize.

The Shah Family Innovation Prize was created with a substantial gift to the EERI Endowment Fund by the Haresh C. Shah family of Stanford, California. The intent of the prize is to stimulate further creativity and leadership in the earthquake risk mitigation community and EERI.

The selection process recognizes a combination of past accomplishments and future potential, emphasizing creative and innovative thinkers who have demonstrated at early stages in their careers the potential to make major contributions. EERI membership is not required for either the nominator or candidate, although it is strongly encouraged. Candidates must be less than 35 years of age on January 1, 2017.

Submit your nominations for the Shah Family Innovation Prize online by **November 15, 2016** at <https://www.eeri.org/cohost/registration/2016-shah-prize-nominations>

For more information about the required nomination package, selection criteria, and past winners, visit <https://www.eeri.org/about-eeri/honors-awards/shah-family-innovation-prize/>

The 2016 Shah Family Innovation Prize Selection Committee: **Patricia Grossi**, Independent Consultant (Chair); **Jack Baker**, Stanford University; **Stacy Bartoletti**, Degenkolb Engineers; **Glenn Rix**, Geosyntec Consultants; and **Emily So**, University of Cambridge.

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▶ Augered Cast-In-Place & Drilled Displacement Piles Seminar on Nov 10

The Deep Foundations Institute's Augered Cast-In-Place & Drilled Displacement Piles Specialty Seminar will take place on Thursday, **November 10, 2016**, at Newport Beach Marriott Bayview in Newport Beach, California.



Presentations focus on the design, installation methods and quality control and assurance of ACIP Piles and Drilled Displacement (DD) Piles. The morning session is a short course on the history, process and design of these pile systems while the afternoon features industry professionals presenting case histories which highlight the wide variety of applications for which ACIP and DD Piles are specified and used. The day will close with a networking reception. Register at <http://www.dfi.org/dfieventlp.asp?13288>

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▶ 1st International Conference on Infrastructure Resilience, February 14-16, 2018

The first International Conference on Infrastructure Resilience will be held at ETH Zurich, Switzerland, **February 14-18, 2016**. The conference is organized by the Singapore-ETH Centre Future Resilient Systems program. Infrastructure systems are a compound of engineered, operating organizations and user subsystems. Resilient infrastructure systems are able to provide flows of services, even if assumptions about the environment or system's behavior become invalid. In this conference,



resilience will be addressed from socio-technical systems standpoint.

For more information on the conference, including conference topics and key dates, visit <http://resilienceconference.ethz.ch> 


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▶ Rutherford + Chekene has Two Structural Engineer Openings

Rutherford + Chekene (EERI Bronze Subscribing Member) an award-winning structural and geotechnical engineering firm established in 1960, seeks a Senior Project Manager (SE) and a Staff Engineer for salaried, full-time positions in San Francisco, California.



Read more about the positions and the firm at http://www.lockeandkey.com/jobs/JobOpenings/job_opening_167.php 

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[Back to top >](#)

PUBLICATIONS


▶ Earthquake Spectra: Preprint Manuscripts

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



- "Evaluation of Out-of-Plane Wall Anchorage Force Provisions in Buildings with Rigid Walls and Flexible Roof Diaphragms" by **Maria Koliou** (M. EERI, 2009), **John Lawson** (M. EERI, 1985), **Andre Filiatrault** (M. EERI, 1986), and **Dominic J. Kelly** (M. EERI, 2001)
- "Seismic Damage Indicating Parameters at Nuclear Power Plants Affected by the 2011 Great East Japan Earthquake and Plant Shutdown Criteria" by **Fred F. Grant** (M. EERI, 2011), **Yuchuan Tang** (M. EERI, 2016), **Greg S. Hardy** (M. EERI, 2009), and **Robert Kassawara** (M. EERI, 1987)

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

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[Back to top >](#)

STUDENT SPOTLIGHT

▶ New University of Washington Student Chapter



EERI is pleased to introduce the new student chapter established at the University of Washington in Seattle, Washington. The chapter's faculty advisor is **Paolo Calvi** (M. EERI, 2016), Assistant Professor in the Civil Engineering Department. The local professional contact is **Erica Fischer** (M. EERI, 2010) from Degenkolb Engineers. Elected officers include **Andrew Sen** (President, M. EERI, 2016), **Alex Grant** (Vice President, M. EERI, 2016), and **Nasser Marafi** (Secretary, M. EERI, 2014).

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[Back to top >](#)

MEMBER SPOTLIGHT

► Renew your EERI Membership for 2017

On October 27, 2016, all EERI members (except student and honorary members) were sent via email the first membership renewal notice for 2017. The email message provides a link to their personal renewal page showing contact information with options for selecting chapter membership and making a voluntary contribution to the EERI Endowment Fund.



If you did not receive this message, or are having trouble [logging in to your membership record](#), please e-mail Membership Coordinator Juliane Lane at juliane@eeri.org.

We hope you will continue to support EERI and renew your membership for 2017.

Together, we can reduce earthquake risk for our communities.

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► 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

Saman Abdullah, UCLA

Susana Amaral, Northeastern University

Lenard Ambrus, Technical University of Cluj – Napoca, *Civil*

Marcos Aria-Hodgehenry, Pontificia Universidad Catolica Madre y Maestra


Santiago Arrangoiz-Arriola, Stanford University

Abhinav Bindal, Stanford University

Coleman Blakely, University of Notre Dame, *Civil*

Ana Maria Bogdan, Technical University of Cluj – Napoca, *Civil*
Tudor Bucovineanu, Technical University of Cluj – Napoca, *Civil*
Diana Canta, Technical University of Cluj – Napoca, *Architect*
Jiawei Chen, UC Berkeley
Peng-Yu Chen, UCLA, *Civil*
Ali Copuroglu, Istanbul Teknik Universitesi, *Civil*
Bogdan Cucos, Technical University of Cluj – Napoca, *Civil*
Karl Eid, UC Berkeley
Kyle Ellsworth, Stanford University
John Engel, UC Davis
Islam M.R.M.H. Farrag, University of California, Irvine
Mahmoud Faytarouni, Iowa State University
Ben Flanagan, University of Notre Dame, *Civil*
Alejandro Finol, Cornell University, *Architect*
Cosmin Furdui, Technical University of Cluj – Napoca, *Architect*
Josias Galan, San Francisco State University, *Civil*
Selena Gray, San Francisco State University, *Civil*
Zhendong Guo, Stanford University
Joseph Hill, Portland State University, *Civil*
Josh Hoekstra, McMaster University, *Civil*
Guardi Jain, Cornell University, *Mechanical*
Darshit Jasani, Stanford University
Wilma Jerez-Ortiz, Pontificia Universidad Catolica Madre y Maestra, *Civil*
Alan Kanybek, Purdue University, *Civil*
Derek Kozak, University of Illinois
Yi Li, Purdue University, *Civil*
Sabine Loos, Stanford University
Victor Luna, Pontificia Universidad Catolica Madre y Maestra, *Civil*
Liyang Ma, Lehigh University
Gerald Macaspac, San Francisco State University, *Civil*
John Mackail, Virginia Tech
Saranjan Mahadevan, McMaster University
Elvis Mamani, Pontificia Universidad Catolica del Peru
Mark Anthony Manalo, San Francisco State University
Lucian-Ionut Marin, Technical University of Cluj – Napoca, *Civil*
Paolo Martuscelli, UC Berkeley
Muriel Naguit, Australian National University, *Seismologist*
Daniel Narvaez, UC Irvine, *Civil*
Bryanna Noade, McMaster University, *Civil*
Aditya Pandey, UC Berkeley
Marcos Paniagua, Pontificia Universidad Catolica Madre y Maestra, *Civil*
Athul Parayancode, UC San Diego, *Civil*
Freshta Pirzada, UC Davis, *Civil*
Miriam-Claudia Pop, Technical University of Cluj – Napoca, *Architect*
Meghna Prasad, Virginia Tech, *Health Science*

Meshael Rahman, McMaster University, *Civil*
Pearl Ranchal, UC Berkeley
Luca Rares, Technical University of Cluj – Napoca, *Civil*
Wendy Reyes, Virginia Tech, *Civil*
Andrei Rosca, Technical University of Cluj – Napoca, *Civil*
Fendy Setiawan, UC Berkeley
Seyedamirali Shojaeiandivkolaee, Lehigh University, *Civil*
Ayush Singhania, Stanford University
Haris Softic, UC Davis, *Civil*
Anamaria Sovre, Technical University of Cluj – Napoca, *Architect*
Ryan Stevens, Virginia Tech
Nick Stone, UC Davis, *Civil*
Jonathon (Tsun-Ming) Sze, Portland State University, *Civil*
Christopher Tahara, Virginia Tech, *Civil*
Gin Ung, UC Davis, *Civil*
Levente Veres, Technical University of Cluj – Napoca, *Civil*
Zoe Yin, University of Texas – Austin, *Seismologist*

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[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
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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