



The Pulse of Earthquake Engineering

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August 1, 2018

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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

▶ [View the 2018 EERI Annual Business Meeting on You Tube](#)



11th National
Conference on
Earthquake Engineering
Integrating science, engineering, & policy

EERI Annual Business Meeting *June 28, 2018*



Click here to view the 2018 EERI Annual Business Meeting.

The 2018 EERI Annual Meeting was held concurrently with the Eleventh National Conference on Earthquake Engineering (11NCEE) in Los Angeles, California. Per EERI's Bylaws, the EERI Annual Meeting always contains an Annual Business Meeting component that took place on Wednesday, June 28, 2018. The live meeting was very brief to accommodate a large number of EERI honors and awards presented and the necessity to strictly adhere to the afternoon's full schedule of technical programming.

To ensure that EERI members have access to the full scope of content presented at the Annual Business Meeting, EERI President **David Friedman** (M.EERI,1988) and Secretary/Treasurer **Lucy Arendt** (M.EERI,2008) have recorded a video version that is now available on [YouTube](#). The new format allows all EERI members access regardless of whether or not they attended the conference.

We welcome your feedback, please email eeri@eeri.org.

► **11NCEE Photos Posted!**

Conference attendees will be happy to learn that EERI has posted nearly one thousand photos from the 11NCEE on our website and on Flickr!

EERI extends gratitude to EERI Honorary Member and the Institute's long-time "official" photographer, **Marshall Lew** (M.EERI,1978), and to professional photographer Christian Millan, for their talent and hard work. To browse through the albums, follow these links:

11NCEE photo gallery by Christian Millan

CSI Reception Photos (courtesy of CSI)

Flickr photo albums by Marshall Lew (and others as noted):

11NCEE Technical Program and Conference Events

June 25

June 26

June 27

June 28

June 29

EERI Photos

Annual Awards Ceremony

SDC Awards Ceremony

Tours

Port of LA - Photos provided by Professor **Anne Lemnitzer** (M.EERI,2006)

Wilshire Grand - Photos provided by **Dr. Martin B. Hudson** (M.EERI,1994), Wood Environment & Infrastructure Solutions, Inc.

LA Conservancy Downtown Walking Tour - Photos provided by Dr. Martin B. Hudson

Please do not reprint photos for commercial use without permission. Contact eeri@eeri.org with inquiries.

Photo of Marshall Lew (right). Photo Credit: **Eduardo Miranda** (M.EERI,1987).



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► How Induced Earthquakes Are Making Us Rethink the Challenges of Earthquake Engineering

How Induced Earthquakes Are Making Us Rethink the Challenges of Earthquake Engineering

Monday, September 17, 2018

10:00 – 11:00 am PST

Speaker: Abbie Liel, Ph.D.

[Register for the Webinar](#)

This presentation examines the ongoing human-caused seismicity in Oklahoma, Kansas and other parts of the central U.S. from an earthquake engineering perspective. Key questions to be answered include: Are these earthquakes different from natural (tectonic) earthquakes in important ways for earthquake engineers? Are these earthquakes large enough to cause damage to buildings and infrastructure? What is the impact of these earthquakes on seismic hazard and risk?



Abbie Liel

Abbie Liel, Ph. D. (M.EERI,2009)

Abbie is an Associate Professor of Civil, Environmental and Architectural Engineering at the University of Colorado, Boulder. She earned two undergraduate degrees from Princeton University, one in Civil Engineering and one from the Woodrow Wilson School of Public Policy, starting her interest in uniting engineering and public policy. She started her graduate studies in the United Kingdom on a Marshall Scholarship, where she received a M.Sc. in Civil Engineering and a M.Sc. in Building and Urban Design and Development. Abbie did her Ph.D. at Stanford University, under the guidance of Professor **Gregory Deierlein** (M.EERI, 1989), focusing on collapse risk of older non-ductile concrete frame structures. At the University of Colorado, Abbie has worked on problems related to seismic performance of concrete buildings, snow loads on structures, and flood damage in the 2013 Boulder, CO floods, and induced seismicity, and advised 13 doctoral students. She has been the recipient of Shah Family Innovation Prize from the Earthquake Engineering Research Institute, and recently received the Charles A. Hutchinson Memorial Teaching Award from the University of Colorado's College of Engineering.

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 **EERI ANNUAL AWARDS**

► [EERI Annual Awards: Call for Nominations/Applications](#)

EERI is proud to announce the call for nominations and deadlines for the following awards, which will be presented at the 2019 EERI Annual Meeting in Vancouver, BC, Canada on March 5-8, 2019 (unless otherwise noted). In the past, EERI has published each annual awards' "call for nomination" announcement individually in *The Pulse*. This year, EERI has consolidated its annual award nominations into a single announcement, allowing members the opportunity to consider a complete suite of candidates whom they believe to be qualified and deserving.

Please view the following list of awards that are now open for nominations. Please continue reading the articles below for specific details about each award, including selection criteria and instructions for nominating a candidate and/or submitting an application.

Nominations are due August 23, 2018 for:

The William B. Joyner Memorial Lecture Award

Nominations are due September 10, 2018 for:

The George W. Housner Medal

The Alfred E. Alquist Special Recognition Medal

EERI Honorary Membership

EERI Distinguished Lecture Award

The Bruce Bolt Medal

Outstanding Paper Award for *Earthquake Spectra* (2017, vol.33)

Nominations/Applications are due October 1, 2018 for:

2018 Shah Family Innovation Prize

2018-2019 EERI/FEMA Graduate Fellowships in Earthquake Hazard Reduction

EERI 2018 Undergraduate Student Paper Competition

Coming Soon:

2019 Younger Member Award



► Submit Nominations for the Housner, Alquist, Distinguished Lecture, Honorary Member, and Outstanding Paper Awards by September 10, 2018

Deadline: September 10, 2018

The EERI Honors Committee is charged with developing recommendations for several awards. The committee greatly depends on nominations submitted by the members of the Institute and seeks help in identifying worthy members whose contributions should be recognized. Please consider submitting nominations to the Honors Committee by September 10, 2018, for these prestigious awards: **The Alfred E. Alquist Special Recognition Award, Distinguished Lecture Award, George W. Housner Medal, and EERI Honorary Membership**. Also due on September 10, 2018, are nominations for the 2017 **Outstanding Paper Award for *Earthquake Spectra*** (vol. 33), which will be reviewed by the Editorial Board of *Earthquake Spectra*.

Process for Submitting Nominations:

All nominations should be accompanied by a brief justification, and must be received by September 10, 2018, in order for the Honors Committee to complete deliberations and forward its recommendations to the Board of Directors. Please review the **award criteria** and complete the appropriate form (click on each award below to access the proper nomination form). For a list of past award recipients, please **click here**. To view descriptions of each award, please **click here**.



Nomination Forms:

- **George W. Housner Medal**
- **Alfred E. Alquist Special Recognition Award**
- **2019 Distinguished Lecture Award**
- **EERI Honorary Membership**
- **2017 Outstanding Paper Award for *Earthquake Spectra* (vol. 33)**

Awards will be presented at EERI's 71st Annual Meeting in Vancouver, B.C., Canada on March 5-8, 2019.

Photo: EERI President **David Friedman** (M.EERI 1988) presents the 2018 Alfred E. Alquist Medal to **Michael Mahoney** (M.EERI 1996).

Photo Credit: **Marshall Lew** (M.EERI 1978), EERI Honorary Member.

► Submit Nominations for the 2019 Joyner Lecture by August 23, 2018

The **William B. Joyner Memorial Lectures** were established by the **Seismological Society of America (SSA)** in cooperation with EERI to honor Bill Joyner's distinguished career at the U.S. Geological Survey and his abiding commitment to the exchange of information at the interface of earthquake science and earthquake engineering.

Joyner Lecturers are chosen on the basis of their work at this interface, whether they are contributions from earthquake science to earthquake engineering or from earthquake engineering to earthquake science. The nomination deadline is **August 23, 2018**.

Sponsor Nomination

The sponsor of the nominee, with help from others, must clearly document the accomplishments of the nominee that foster and enhance communication at the earthquake-science/earthquake-engineering interface, and why their work makes a difference. The sponsor must prepare a written proposal providing a brief summary of the candidate's professional history. It may include honors and awards, professional affiliations, lectures and publications, and professional service and experience that address the intent of the Joyner Award.



Nominations for the 2019 Joyner Lecturer should be emailed to the Joyner Lecture Committee by **August 23, 2018** to: awards@seismosoc.org.

[Click here](#) for more information on the William B. Joyner Memorial Lectures.

Photo: **Ellen Rathje** (M.EERI,1996) delivers the 2018 Joyner Lecture at the 11NCEE. Photo credit: Christian Millan

► Call for Nominations for the 2019 Bruce Bolt Medal

The **Bruce Bolt Medal** is a distinguished honor awarded jointly by COSMOS, EERI, and SSA to recognize 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.

The COSMOS, EERI, and SSA Joint Nomination Panel is now accepting nominations for the 2019 Bruce Bolt Medalist. Nomination packets must be received by **September 10, 2018**.

Members of EERI, SSA, and COSMOS are encouraged to submit nomination packages for this distinguished award. Nominations will be reviewed in confidence by a six-person Joint Nomination Panel formed by two representatives from each of the three sponsoring organizations. Please note that current members of the Joint Panel are not eligible for nomination: Jose A. Martinez-Cruzado, Robert L. Nigbor, Maurice S. Power, Jon Ake, Robert R. Youngs, and William "Woody" Savage (Chair of the Bolt Panel). The recommended nominee will be considered in confidence by each organization's Board of Directors for their approval and joint selection of the medalist.



If you know of a colleague or peer that you would like to nominate for this prestigious honor, please carefully review the [nominee criteria and procedure](#).

The deadline to submit nominations for the 2019 award is **September 10, 2018** (incomplete nomination packages will not be considered by the Joint Nomination Panel).

Please direct all questions by email to **Woody Savage** (M. EERI, 1975).

Photo: (L to R) 2018 George W. Housner Medalist **I.M. "Ed" Idriss** (M.EERI,1972) and 2018 Bruce Bolt Medalist **Jonathan P. Stewart** (M.EERI,1994) at the 2018 EERI Annual Meeting awards ceremony. Photo credit: Christian Millan

► 2018 Shah Family Innovation Prize

Submit your nomination for the Shah Family Innovation Prize online by **October 1, 2018**.

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 2018 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, 2019.

For more information about the required nomination package including selection criteria, please [click here](#).

To access the nomination form [click here](#).

EERI extends its appreciation to the Shah Family Innovation Prize Selection Committee: Emily So, University of Cambridge (Chair); Jack Baker, Stanford University; Charles Menun, Consultant; Glenn Rix, Geosyntec Consultants.

Photo: 2017 Shah Prize recipient **Vitor Silva** (M.EERI,2014) speaks at the 2018 EERI Annual Meeting awards ceremony.
Photo Credit: **Marshall Lew** (M.EERI,1978), EERI Honorary Member.



► [Apply for the 2018-2019 EERI/FEMA Graduate Fellowship in Earthquake Hazard Reduction by October 1, 2018](#)

EERI is pleased to announce the availability of two [Graduate Fellowships for the 2018-2019 academic year](#) to support full-time students in a discipline contributing to the science and practice of earthquake hazard mitigation. The one-year fellowship, underwritten with funds provided by the Federal Emergency Management Agency (FEMA), is designed to foster the participation of capable individuals in working toward goals and activities of the National Earthquake Hazards Reduction Program.

Award

The EERI/FEMA NEHRP fellowship provides a stipend of \$12,000 that can be used for tuition, fees, research expenses, and the required attendance and participation at the 2019 EERI Annual Meeting, March 5-8, 2018, in Vancouver, B.C., Canada.

Criteria

Applicants must be enrolled in a graduate degree program at an accredited U.S. college or university and must hold U.S. citizenship or permanent resident status. All applications must include an academic transcript and a statement of educational and career goals. Strong consideration will be given to candidates with active involvement in EERI.

All application materials must be submitted electronically to EERI, including a letter of nomination from a faculty sponsor at the student's institution and two additional reference letters. Letters should evaluate the applicant's recent academic performance, document the applicant's research accomplishments, and assess the candidate's potential to contribute to the field.

Application: **Please apply online.**

Deadline: All application materials are due **October 1, 2018.**

Photo: 2017-2018 EERI/FEMA Graduate Fellows **Kristin Ulmer** (M.EERI,2014) and **Lohrasb Keykhosropour** (M.EERI,2016) at the 11NCEE.

Photo credit: Christian Millan



► EERI 2018 Undergraduate Student Paper Competition

EERI reminds students that we are now accepting submissions for the **Undergraduate Student Paper Competition**. The deadline to submit a paper is **October 1, 2018.**

The purpose of the competition is to promote active involvement of students in earthquake engineering and the earthquake hazards research community, and we encourage student authors to participate.

Please note that the **Graduate Student Paper Competition** has changed. EERI is no longer accepting submissions for the Graduate Category. Please visit the [EERI Competitions](#) web page for details.

The general rules of the Undergraduate Student Paper contest are as follows:

1. The paper must be directly related to earthquake engineering or earthquake hazard reduction.
2. The paper or extended abstract must not exceed four (4) pages in length inclusive of all figures, tables, photographs, appendices, and list of references. Exception: final papers from other programs, such as REU's, that are longer than 4 pages will also be accepted.
3. The paper must be authored by the student alone. In addition, a faculty member or other advisor can provide feedback before submission of the paper but may not co-author the paper. The advisor's name should be included in the "acknowledgements" section of the paper.
4. Applicants must be enrolled at an accredited U.S. college or university and must be U.S. residents.
5. A registration grant for the EERI Annual Meeting will be made available to the winning author, in addition to a small travel stipend, as long as funds are available. The winning paper may also be considered for publication in Earthquake Spectra.
6. **Deadline: October 1, 2018**
7. Papers must be submitted online. [Click here](#) to submit your paper.



Photo: **Carlos Garcia** (M.EERI,2018) receives the EERI Undergraduate Paper Award at the 11NCEE. Photo Credit: **Marshall Lew** (M.EERI,1978), EERI Honorary Member.

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EERI STAFF ON THE MOVE

► Welcome Vida Samardžić, EERI Membership & Publications Coordinator

EERI is delighted to welcome **Vida Samardžić** to the team as our new Membership and Publications Coordinator.

Vida is an accomplished project administrator offering over seventeen years of experience in coordinating teams of diverse sizes and structure. With her background spanning through the

entertainment, hospitality and tech fields, she developed strong business judgment and communication skills along with the capacity to work on strict deadline projects under high pressure. She is skilled in process review, regulatory research, planning, organizing, and implementing time efficient administrative solutions.

Vida holds an MA Degree in Arts and Culture Management from "Academy of Arts", Alfa University, Belgrade.

She can be reached at vida@eeri.org.



Vida Samardžić

► EERI Interns: You say good-bye and I say hello



(L to R) Jorge Moreno, Julio Rios, Omar Plata, Ana Orozco

Interns at EERI play an integral role in supporting the Institute while gaining hands-on experience. It is not uncommon for our interns to transition into professional positions with leading companies and academic institutions. Over the next two months, EERI bids farewell to three outstanding post-graduate interns whose tireless work and relentless dedication contributed significantly to the success of the 11NCEE. While **Omar Plata** (M.EERI,2015), **Jorge Moreno** (M.EERI,2018), and **Julio Rios**

(M.EERI,2017) are leaving the EERI offices to embark on the next stage of their career, we welcome **Ana Isabel Orozco** (M.EERI,2018), our newest intern, who joined us in July.

Meet the interns:

Omar Plata

Omar got his BS in Civil Engineering at San Francisco State University (SFSU) and is a recent graduate from the University of California, Irvine (UCI) with an MS in Structural Engineering. Omar developed his passion for Civil Engineering when he worked as a construction worker alongside his father. During his time at SFSU, he and his team competed in EERI's 2016 Seismic Design Competition and placed 7th place international and 2nd place in California. As an EERI intern, he has helped with LFE Reconnaissance Workshops, LFE Business Resilience, 11NCEE, and technical webinar series. EERI would like to thank Omar Plata for all his help and hard work, during the 11NCEE. He was also instrumental in making significant progress for EERI's LFE Business Resilience project. We hope for the best of luck to Omar as he starts his new job at Rinne & Peterson, a structural engineering firm in Palo Alto, CA, as an entry-level engineer.

Jorge Moreno

Jorge graduated from the SEMM Master's program at UC Berkeley with the support of the Fulbright scholarship. He completed his undergraduate studies at UNAM, and was able to undertake research activities at the Instituto de Ingenieria, in Mexico City. The September 19th, 2017 Earthquake in Mexico was a breakpoint that sparked his interest in earthquake mitigation strategies and development of resilient communities.

During his time at EERI, Jorge was supporting the World Housing Encyclopedia to update the report database and to develop the user-friendly WHE Wiki. Jorge played an important role in updating the Learning from Earthquakes website, the 11NCEE, and the translation of Confined Masonry guide into Spanish. EERI would like to thank Jorge for being invaluable in making the 11NCEE a great success. Jorge will work for Rutherford + Chekene in San Francisco, as an entry-level engineer. EERI would like to wish Jorge the best of luck as he starts his career.

Julio Rios

Julio obtained his Bachelor's Degree in Civil Engineering at Pontifical Catholic University of Peru (PUCP) and completed Master's studies at the same University with the support of Concytec scholarship. During 2017, he interned at Instituto de Ingenieria (UNAM) in Mexico City as a researcher. His motivation for earthquake engineering arose due to the seismic gap and high seismic risk to which Peru is exposed. He was a research assistant at PUCP and worked in some publications about site effects in Lima City. At EERI, he supported the transition to the new Learning From Earthquakes website, updated the Mitigation Center website, and helped with the 11NCEE organization, SESI activities, and the translation of WHE reports into Spanish. EERI is grateful for

Julio's contributions to the success of the 11NCEE, and many EERI projects. Julio plans to continue his engagement in earthquake engineering by pursuing a Ph.D. He is currently looking for opportunities to continue exploring his research interest in Ground Motion Prediction Equations (GMPEs) and site effects evaluations after he leaves EERI.

Ana Isabel Orozco

Ana is a Civil Engineer who comes to us from Mexico, where she graduated from University of Guadalajara. She tells us that after the recent earthquakes struck her country, her passion to get involved and promote the importance of mitigating earthquakes has significantly increased. She has experience working on-site and intends to further develop her knowledge on sustainable earthquake-resistant materials. Ana comes to EERI with substantial knowledge, and committee members can expect to hear from her as she supports EERI's various programs and projects.

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REGIONAL CHAPTER NEWS

▶ **EERI San Diego Regional Chapter Events: August 23 & 24**

The EERI San Diego Regional Chapter is organizing these upcoming events to be held in August. Special discounts apply when registering for both events. [Register Now!](#)

Venue

San Diego State University
Hardy Memorial Tower, Room HT-140
5500 Campanile Drive
San Diego, CA 92182

A 1-Day Short Course

“Using DEEPSOIL: An equivalent linear and nonlinear seismic site



response analysis software platform”

Presenter: **Prof. Youssef Hashash** (M.EERI,1999), University of Illinois at Urbana-Champaign

Thursday, August 23, 2018, 8:00am – 5:00pm

This short course will introduce the latest release of DEEPSOIL (V7) for seismic site response analysis (SRA). The course will provide attendees with a background on SRA and the development of the DEEPSOIL platform. It will cover the various modules available including motion processing, equivalent linear analysis, and nonlinear analysis with and without pore water pressure generation. The course will also include a number of hands-on exercises to gain familiarity with the development of model input and evaluation of analysis results.

Kenji Ishihara Colloquium Series on Earthquake Geotechnical Engineering

“Seismic Settlements”

Keynote Speakers: **Prof. Jonathan Bray** (M.EERI,1990) (UC Berkeley) and **Prof. Kohji Tokimatsu** (M.EERI, 1994) (TSRC, Japan)

Friday, August 24, 2018, 8:00am – 5:00pm

This colloquium series will focus on seismic settlements – the topics are oriented towards geotechnical engineers, structural engineers, engineering geologists, architects, civil engineers, researchers, and students. Speakers set to present at this colloquium include **Prof. Jonathan Bray** (M.EERI,1990) (UC Berkeley), **Prof. Kohji Tokimatsu** (M.EERI,1994) (Tokyo Soil Research Co.), **Prof. Youssef Hashash** (M.EERI,1999) (UIUC), **Prof. Susumu Yasuda** (M.EERI,1995) (Tokyo Denki University), **Craig Comartin** (M.EERI,1987) (CDCComartin, Inc.), **Stephen Harris** (M.EERI,1986) (SGH), among other professionals and professors from the US and Japan.

REGISTER HERE

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ANNOUNCEMENTS

▶ [PEER PHI Challenge - Register by August 15](#)

PEER is organizing the first image-based structural damage recognition competition, **the PEER Hub ImageNet (PHI) Challenge**.



Register before August 15, 2018!

The goal of the PHI Challenge is to evaluate algorithms for structural image classification using a large-scale dataset based on service conditions, past reconnaissance efforts, and laboratory experiments for conditions of extreme events. For the PHI Challenge, PEER will provide a large image dataset which is relevant to the field of structural engineering, and will design several detection tasks, which will contribute to the establishment of automated vision-based structural health monitoring.

For more information on the PHI Challenge and to register, please [click here](#).

► Call for Papers: 12th Canadian Conference on Earthquake Engineering



The Canadian Association for Earthquake Engineering (CAEE) is proud to announce the 12th Canadian Conference on Earthquake Engineering that will be held in Quebec City, June 17-20, 2019. This is the most important international conference on seismic engineering to be held in Canada. It brings together researchers, structural engineers, geotechnical engineers, architects, seismologists and regulatory bodies from all over the

world every four years. The conference theme is "Improving Seismic Infrastructure Performance and Community Resilience." Topics include Seismic hazard, Seismology, Codes and standards, Seismic geotechnical issues, Seismic structural behaviour and design (bridges, buildings, dams, energy transportation lines, ...), Seismic rehabilitation, Seismic mitigation systems, Societal impacts, Risk management, Dam safety, Machine learning applications for seismic reliability of structures and Structural health monitoring.

You are invited to **submit abstracts** through the submission system of the conference from now until September 15, 2018. Note that English will be the only official language of the conference.

12CCEE IMPORTANT DATES:

Abstract submission deadline: September 15, 2018

Registration opens: September 15, 2018

Abstract acceptance notice: October 31, 2018

Full paper submission deadline: December 31, 2018

Full paper acceptance notice: February 28, 2019

Early bird and presenting author registration deadline: March 15, 2019

For more information, please [visit the website](#).

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PUBLICATIONS

▶ Earthquake Spectra: Preprint Manuscripts

Seven (7) preprint manuscripts have been posted to the *Earthquake Spectra* website prior to formal publication.

The papers to be published are:

- **Development and application of FEMA P-58 compatible story loss functions** by **Athanasios N. Papadopoulos** (M.EERI,2017), **Dimitrios Vamvatsikos** (M.EERI,2002) and Athanasia K. Kazantzi
- **Integrating Performance Based Engineering and Urban Simulation to Model Post-Earthquake Housing Recovery** by **Henry V. Burton** (M.EERI,2011), **Scott B. Miles** (M.EERI,2009) and **Hua Kang** (M.EERI,2017)
- **Computation of vector hazard using salient features of seismic hazard deaggregation** by **Somayajulu L. N. Dhulipala** (M.EERI,2016), **Adrian Rodriguez-Marek** (M.EERI,1999) and **Madeleine M. Flint** (M.EERI,2017)
- **Empirical Linear Seismic Site Amplification in Central and Eastern North America** by **Grace A. Parker** (M.EERI,2012), **Jonathan P. Stewart** (M.EERI,1994), **Youssef M.A. Hashash** (M.EERI,1999), **Ellen M. Rathje** (M.EERI,1996), **Kenneth W. Campbell** (M.EERI,1975) and **Walter J. Silva** (M.EERI,1988)
- **Viscoelastic Coupling Dampers (VCDs) for Enhanced Multiple Seismic Hazard Level Performance of High-Rise Buildings** by Renée MacKay-Lyons, Constantin Christopoulos and Michael Montgomery
- **Performance-based seismic design and evaluation of fused steel diagrid frame** by Tianxiang Li, T.Y. Yang, Genshu Tong, Dorian P. Tung and Yuanjie Li
- **Influence of Flange on Seismic Performance of 1100 kV UHV Transformer Bushing** by Chang He, Qiang Xie and Yong Zhou



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

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NEWS OF THE PROFESSION

▶ [Links to Recent News & Views](#)

Six (6) recent articles, stories, opinions, or reports from around the web.

- 1 New Findings Clarify the Seismic Risk in the Pacific Northwest** (Temblor) Three years ago, Kathryn Schultz' Pulitzer Prize-winning *New Yorker* essay, "The Really Big One," thrust the Cascadia Subduction Zone into the public spotlight. In the last month, several studies were published which not only showcase the dangers posed by this 1,000 km-long (600 mi) plate boundary, but highlight where ruptures may be most likely. [Read more](#)
- 2 Lori Dengler: A little Excitement in the Gorda Plate** (Eureka Times Standard) Columnist **Lori Dengler** (M.EERI,1998) writes, "Local earthquakes always pique my interest and the process I went through on Tuesday (July 24, 2018) is a good illustration of the seismic information flow, the importance of caution with preliminary results and how it fits in to the North Coast tectonic story. [Read more](#)
- 3 Tremors Shove Washington Westward, Offer Clues Into Next Big Earthquake** (Seattle Times) Thousands of tiny tremors over the past few months have moved parts of Washington and Vancouver Island westward. While older models suggest that the locked zone is mostly shallow and offshore, the location of these tremors indicates ... [Read more](#)
- 4 Class-Action Status Advances in New Dominion Earthquake Lawsuit** (Journal Record) In early November 2011, a swarm of strong earthquakes swept through nine Oklahoma counties over three days. That temblor series was the first sign of what would become a regular occurrence in a state not previously familiar with earthquakes. [Read more](#)
- 5 Indonesia Earthquake: 14 Dead on Tourist Island of Lombok** (BBC) The USGS reports a magnitude 6.4 quake just before 07:00 local time on Sunday. The epicentre was 50km (31 miles) north-east of the city of Mataram, in northern Lombok. [Read more](#)
- 6 Alberta Researcher Developing Earthquake-Resistant Concrete** (Journal of Commerce) **Mohammad Javad Tolou Kian**

(M.EERI,2018) discusses his research on high-performance reinforced concrete walls that possess improved damage properties that protect them when an earthquake strikes. [Read more](#)

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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."

Sunday, September 23, 2018 - September 28

ASCE Week

Las Vegas, NV

www.asceweek.org

Friday, September 28 2018 12:30 AM - 2:30 AM

Lecture: Effects of Frequency & Rate of Cyclic Loading of Soils on the Input for Site Response Analyses

Invited Speaker: Professor Mladen Vucetic, UCLA

Co-sponsors: New York -Northeast Chapter of EERI and the Earthquake Engineering and Soil Dynamics Committee of ASCE

Host/Location: WSP, 1 Penn Plaza, New York City

Date/Time: Thursday September 27th, 2018; 5:30 – 7:30 pm (networking 5:30-6pm; Lecture 6-7 pm)

Free to attend (RSVP to nynne@eeri.org by 9/24/18)

Download the Flyer

Sunday, October 14, 2018 - October 19

SEG18

Society of Exploration Geophysicists Annual Meeting (SEG18)

October 14-19, 2018

Anaheim, CA

[Register/more information](#)

Thursday, October 18, 2018

The Great California ShakeOut

Millions of people worldwide will practice how to Drop, Cover, and Hold On at 10:18 a.m. on October 18, 2018 during [Great ShakeOut Earthquake Drills](#), which began in California in 2008.

Saturday, October 20, 2018 - October 25

CTBUH 2018 International Conference

Council on Tall Buildings and Urban Habitat 2018 International Conference

Polycentric Cities: The Future of Vertical Urbanism

October 20-25 2018

Dubai, UAE • Jeddah, Saudi Arabia

Wednesday, October 24, 2018 - October 27

NCSEA 2018 Structural Engineering Summit

NCSEA 2018 Structural Engineering Summit

Oct. 24-27, 2018

Chicago, IL

Wednesday, October 24, 2018 - October 27

Deep Foundations Institute (DFI) 43rd Annual Conference

Deep Foundations Institute (DFI) 43rd Annual Conference

October 24-27, 2018

Anaheim, California

Thursday, October 25, 2018

SMIP18 Seminar on Utilization of Strong-Motion Data

Registration is Now Open

Date: Thursday, October 25, 2018

Location: The California State Lottery Headquarters, 700 North 10th Street, Sacramento

Sunday, October 28, 2018 - October 31

6th International Symposium on Life-Cycle Civil Engineering (IALCCE2018)

Sixth International Symposium on Life-Cycle Civil Engineering (IALCCE2018)

October 28-31, 2018

Ghent, Belgium

Sunday, November 04, 2018 - November 07

2018 GSA Annual Meeting

2018 GSA Annual Meeting

November 4-7, 2018

Indianapolis, Indiana

Wednesday, November 07, 2018 - November 09

NDRC 2018

2018 National Disaster Resilience Conference

Clearwater, FL

[Register](#)

Thursday, November 15, 2018 - November 17

DFI India 2018

8th Conference on Deep Foundation Technologies for Infrastructure Development in India

November 15-17, 2018 Gujarat, India

[Register](#)

Saturday, November 24, 2018 - November 28

GeoMEast 2018 International Congress & Exhibition

GeoMEast 2018 International Congress & Exhibition

"Sustainable Civil Infrastructures: Structural Integrity"

November 24-28, 2018

Cairo, Egypt

Monday, December 10, 2018 - December 14

Monday, December 10, 2018 - December 14

AGU 2018 Fall Meeting

Washington, D.C.

[Registration](#)

Thursday, December 20, 2018 - December 22

16SEEE

[16th Symposium on Earthquake Engineering \(16SEE-2018\)](#)

December 20-22, 2018

Roorkee, India

Monday, January 07, 2019 - January 10

Building Innovation 2019/NIBS

[Building Innovation 2019](#)

[The National Institute of Building Sciences Seventh Annual Conference and Expo](#)

Washington D.C.

Thursday, January 17, 2019 - January 18

PEER 2019 Annual Meeting

[PEER Annual Meeting](#)

January 17-18, 2019

UCLA campus

Los Angeles, CA

Tuesday, March 05, 2019 - March 08

EERI 2019 (71st) Annual Meeting

[EERI 71st Annual Meeting](#)

March 5-8, 2019

JW Marriott at Parq Vancouver

Vancouver, B.C., Canada

Tuesday, April 23, 2019 - April 26

SSA 2019 Annual Meeting

[SSA Annual Meeting](#)

April 23 - 26, 2019

Seattle, WA

Monday, June 17, 2019 - June 20

7ICEGE

VII International Conference on
Earthquake Geotechnical Engineering

June 17-20, 2019

Rome, Italy

Monday, June 17, 2019 - June 20

12CCEE

12th Canadian Conference on Earthquake Engineering

Improving Seismic Infrastructure Performance and Community Resilience

June 17-20, 2019

Quebec City

Sunday, June 23, 2019 - June 26

ICONHIC2019

2nd International Conference on Natural Hazards and Infrastructure

23-26 June 2019

Chania, Greece

Monday, December 09, 2019 - December 13

AGU 2019 Fall Meeting

9-13 December 2019 San Francisco, California

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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