



## 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



#### ▶ Robert W. Graves Selected as 2019 Joyner Lecturer

The Earthquake Engineering Research Institute (EERI) and the Seismological Society of America (SSA) are pleased to announce that U.S. Geological Survey research geophysicist **Robert W. Graves** (M.EERI,2000) is the 2019 recipient of the William B. Joyner Lecture Award.

Graves will deliver the Joyner Lecture at the EERI 2019 Annual Meeting to be held 5-8 March 2019 in Vancouver, Canada, and the 2019 SSA Annual Meeting to be held 23-26 April 2019.

The lectureship is jointly awarded by EERI and SSA to those who have provided outstanding earth science contributions to the theory and practice of earthquake engineering or outstanding earthquake engineering contributions to the direction and focus of earth science research—together with demonstrated skills of communication at the interface of earthquake science and earthquake engineering.

The lecture honors the distinguished career of William B. Joyner at the U.S. Geological Survey and his abiding commitment to continuing communication and education at the interface between research findings of earthquake science and the practical realities of earthquake engineering.

At the USGS Pasadena office, Graves' main area of study is the analysis and characterization of strong ground shaking due to earthquakes. Graves' research considers the processes of how earthquake ruptures start and propagate across the fault, how the resulting seismic waves propagate through the Earth's crust, and how strong the ground shaking will be at a particular location. This work relies heavily on analysis and interpretation of ground motion recordings from past earthquakes, as well as high-performance computer simulation and modeling.

In his nomination for the award, Graves was commended for his work in significantly advancing ground motion simulations toward practical applications, and in working across the seismology-engineering interface to solicit feedback and to continually refine his simulation methods. Graves has become one of the key leaders in the field of 3D ground motion simulations, his colleagues noted, citing in particular his accomplishments in developing efficient modeling algorithms that allow for large-scale 3D simulations to be computed on desktop platforms.



Graves has participated in numerous Southern California Earthquake Center (SCEC) and USGS sponsored projects, including the 3D waveform modeling program and the refinement of the SCEC Community Velocity Model. Work on these projects involves the oversight and coordination of large scale simulations of earthquake ruptures as well as the computation of seismic hazard using physics-based models in the CyberShake project. Graves is one of the founding architects of the SCEC Broadband Simulation Platform, and continues to update and maintain numerous simulation codes on the Platform.

As a consulting seismologist for nearly 20 years before joining the USGS, Graves generated near-fault ground motions for various engineering projects, including the FEMA/SAC Steel Project, Caltrans bridges in Los Angeles, San Diego and San Francisco, and bridges in Japan, as well as providing ground motions for use in the Next Generation of Ground-Motion Attenuation Models (NGA)-West and NGA-East projects.

Graves is a member of the American Geophysical Union, EERI and SSA, where he served on the Board of Directors from 2009 to 2012.

For more information about the Joyner Lecture Award, please visit the dedicated pages on the [EERI website](#) or the [SSA website](#).

► **EERI 2019AM: Register by Dec. 31 & Take Advantage of Early Bird Rates**



Registration is now open for EERI's 71st Annual Meeting, to be held March 5-8, 2019, in Vancouver, British Columbia, Canada. Early Bird Rates are in effect through December 31, 2018.

**REGISTER NOW**

Come to beautiful downtown Vancouver to learn, connect, and network with other earthquake professionals, while enjoying the spectacular new [JW Marriott Parq Vancouver](#) luxury hotel, spa and casino. To reserve your room today at the EERI discount rate, please [click here](#).

Under the theme of *"Reaching Resilience Faster by Working Together,"* the local organizing committee, co-chaired by **Kate Thibert** (M.EERI,2005) and **John Sherstobitoff** (M.EERI,1991), with support from the EERI British Columbia Regional Chapter, have created a program with a terrific schedule of sessions ranging from the very specific and technical to broader themes of how communities can work cooperatively towards resilience. The 2019 Annual Meeting will feature new facilitated interactive workshop sessions, alongside traditional technical sessions as well as sessions highlighting EERI programs. This exciting new program format will appeal to a multi-disciplinary audience, including engineers, scientists, planners, policy makers, social scientists, and many more!

Session topics will include:

- Public Education, Emergency Preparedness and Understanding Risk
- Improving New and Existing Building Performance
- Post-Earthquake Response and Recovery
- Utilities and Infrastructure; including Geotechnical
- Policy, Insurance and Funding Incentives
- New Technologies and Instrumentation

Tours and workshops will include:

- University of British Columbia shake lab tour
- Tour of retrofitted schools in Vancouver and the lower mainland
- St. George's School structural retrofit tour
- LFE Earthquake Reconnaissance Training workshop
- FEMA P-58, New Tools and Guidance for Performance-Based Seismic Design workshop

For more details about the meeting, please visit the [2019 Annual Meeting website](#).

To register for the meeting, [click here](#).

Questions? Email [annualmeeting@eeri.org](mailto:annualmeeting@eeri.org)

### ► Renew Your EERI Membership Today

The holiday season is upon us, and we understand how busy you are. But if you haven't yet, please take a moment now to renew your EERI membership now. It's simple, you can renew by email, mail, or phone. EERI members who had not yet renewed were mailed a letter dated Nov. 1, 2018, and an email on November 13, 2018. The letter provides a form and instructions to renew by mail, and the email provides a direct link to your personal renewal page, simplifying the process. If you cannot find the email, just login to [EERI Member Resources](#) using your email address as your user name, EERI ID as your password, and follow the prompts. If you have questions, please e-mail [eeri@eeri.org](mailto:eeri@eeri.org).

We hope you will continue your support of EERI and our mission in 2019!

*Together, we can reduce earthquake risk for our communities.*



## IN MEMORIAM - ANESTIS VELETSOS

### ▶ Remembering Anestis “Andy” Veletsos (1927-2018)

The Board of Directors and staff of EERI extend our deepest condolences to the family, friends, colleagues, and students of **Anestis “Andy” Veletsos** (M.EERI,1962), who passed away in Houston, Texas on October 25 at age 91. He is survived by his wife, Katherine; daughters Ann Marie and Melinda (Vieser); his son-in-law, Jaime Vieser; four grandchildren, Katherine, Alexandra, Bella and Will; and his sister-in-law, Rula Zografos.

Andy Veletsos was a member of the Earthquake Engineering Research Institute for 56 years. In 1974, he served on the Board of Directors as vice president, and in 1997 received the George W. Housner Medal. Dr. Veletsos was elected to the National Academy of Engineering in 1979 for his “contributions to advancement in structural dynamics and earthquake engineering, especially in inelastic behavior and soil-structure interaction.” He was a Fellow of the American Society of Civil Engineers and recipient of its most coveted awards: the Norman Medal (twice) and the Ernest E. Howard Award. He received numerous awards throughout his career including the Reese Research Prize, Theodore von Karman Medal, and Newmark Medal.

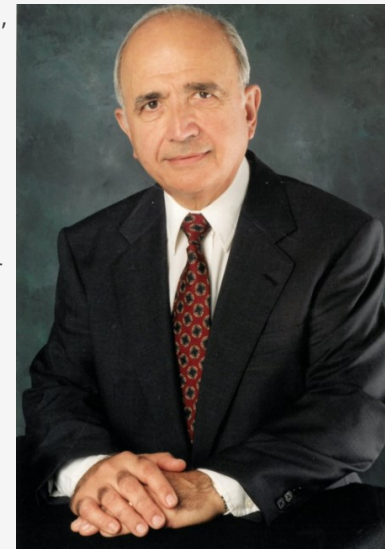
*“A handful of people have transformed the field of earthquake engineering over the past century. Andy was certainly one of them. A true giant in the field,”* said EERI Reginald DesRoches (M.EERI,1995), the William and Stephanie Sick Dean of the George R. Brown School of Engineering at Rice University.<sup>1</sup>

Professor Veletsos was a faculty member at Rice University for 45 years (1964 to 2009), served as department chair from 1964 to 1972, and at the time of his death was the Brown and Root Professor Emeritus of CEE at Rice. His influential research contributions spanned structural dynamics and methods of dynamic analysis, earthquake engineering (elastic and inelastic response spectra), dynamic stiffness of foundations, and seismic soil structure interaction. He authored 140 publications, focusing almost exclusively on structural dynamics and earthquake engineering.

Anil K. Chopra (M.EERI,1973), Professor Emeritus, Department of Civil and Environmental Engineering at the University of California, Berkeley, said in remarks he prepared for Andy's memorial service in Houston on November 1: *“For those of you who do not know Andy's professional work, let me say a few words. Andy's research had a profound influence on the development of structural dynamics and earthquake engineering. His work formed the foundation of this subject. It is now a part of building codes; engineers use it every day without knowing its origins. It is taught in graduate courses all over the world. New researchers start by reading his papers to embark on their careers.”*<sup>2</sup>

Colleagues Christos Giarlelis, Civil Engineering Consultant, Athens, Greece; George E. Mylonakis, Chair in Geotechnics and Soil-Structure Interaction, University of Bristol, U.K., University of Patras, Greece, and UCLA; and Panos Dakoulas, Professor of Geotechnical Engineering, University of Thessaly, Greece, have composed a heartfelt remembrance of Andy's exceptional life, which you can read in its entirety or download by [clicking here](#). This is a brief excerpt:

*“For the people who worked with him, Andy combined intelligence with kindness, humility and integrity. He was always calm, speaking slowly with well chosen words that were conveying his thoughts maintaining the same level of clarity in his verbal communication as he had in his writings. To his students and colleagues, he has been always a very warm and cordial host. He was highly respected and very popular among his colleagues and helped many young scientists, including the signatories, to advance their careers.*



*"A good equilibrium between personal and professional life is the secret of a longlasting, successful career," he always said.<sup>3</sup>*

Andy will be greatly missed.

Please click on the links below to read the full documents referenced above:

<sup>1</sup>[Anestis Veletsos: 'A true giant in the field' \(Rice University\)](#)

<sup>2</sup>[Andy Veletsos Memorial Remarks by Anil Chopra, November 1, 2018](#)

<sup>3</sup>[Anestis S. Veletsos, 1927-2018](#) (submitted to EERI by Christos Giarlelis, George E. Mylonakis, and Panos Dakoulas)

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## YOUNGER MEMBERS NEWS

### ▶ Younger Member Award: Deadline Nov. 26, 2018

**Apply for the second annual EERI Younger Member Award!**

[APPLY NOW](#)

The EERI Younger Members Committee (YMC) is now accepting applications from younger members who would like to be considered for the second annual Younger Member Award (YMA).

The purpose of this award is to recognize a younger member (preferably an EERI YMC member) who has demonstrated exceptional engagement and contributions primarily to the YMC committee but also to other EERI programs, committees, and projects. The recipient of this prestigious award will be recognized during the 2019 Annual Meeting held in Vancouver, BC in March and will receive a registration grant for the meeting.


The application deadline is November 26, 2018. [Click here](#) to apply online. Results to be announced by December 15, 2019.

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## LEARNING FROM EARTHQUAKES

### ▶ Don't Miss Your Chance! LFE 2019 Travel Study Program Deadline Nov 19th

 **Earthquake Engineering  
Research Institute**

 **QuakeCoRE**  
NZ Centre for Earthquake Resilience  
*Te Hiraonga Rū*

Applications are still open for EERI's Learning From Earthquakes 2019 Travel Study Program to be held in New Zealand from May 5-12, 2019 (NZ time). They won't be for long though, the deadline to submit your application is November 19, 2018!

[CLICK HERE TO SUBMIT YOUR APPLICATION](#)

EERI is teaming up with [QuakeCoRE](#), the New Zealand Centre for Earthquake Resilience, to offer an opportunity to be part of the upcoming Learning from Earthquakes Travel Study Program in New Zealand. This program offers a unique opportunity to learn directly from local experts in the field and contribute to knowledge of recovery from recent earthquakes in New Zealand.

The program is targeted at postgraduate students and young professionals; both early career researchers and early career practitioners. The organizers are seeking applications from participants across a diverse spectrum including social sciences, earth sciences, and engineering. Preference will be given to EERI members and QuakeCoRE affiliates.

#### Cost

Program participants are responsible for all travel expenses to and from New Zealand, and the following:

Registration Fee: Students	\$500 (USD)
Registration Fee: Young Professionals	\$1,750 (USD)

#### Applications are due November 19, 2018!

Information about the program goals and the outcomes of the 2017 LFE Travel Study Program in Chile can be found by [clicking here](#). Questions about the program and application process may be directed to Zoe Yin at [zoe@eeri.org](mailto:zoe@eeri.org)

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## ANNOUNCEMENTS

### ▶ [NHERI@UCSD 4th Annual User Workshop: December 13 & 14](#)



NHERI@UC San Diego is hosting its annual user workshop on December 13-14, 2018 at the University of California, San Diego (UCSD) in La Jolla, CA. Future users interested in conducting research using the facility are encouraged to attend. This year a second day will include presentations from other NHERI Equipment Facilities (UC Davis, University of Washington-Rapid, and UC Berkeley-SimCenter). Travel funds may be available to support attendees from the U.S. who would like to attend the workshop.

[REGISTER](#)

### ▶ [NHERI | Lehigh & FIU Joint User Workshop](#)

NHERI | Lehigh & FIU Joint User Workshop  
Event Date: December 3, 2018

Advanced Simulation for Natural Hazards Mitigation and Challenges/Opportunities for Multi-Hazards Engineering  
NHERI Lehigh Experimental Facility Workshop: A collaborative workshop between NHERI Lehigh and NHERI Florida International University to be held at the [NHERI Lehigh Real-Time Multi-Directional \(RTMD\) Facility](#) in Bethlehem, Pennsylvania.

[REGISTER](#)

### ► Call for Abstracts: 5th Residential Building Design and Construction Conference at Penn State

The Pennsylvania Housing Research Center is hosting the [5th Residential Building Design & Construction Conference \(RBDCC\)](#) on March 4-6, 2020 at the Penn State Conference Center in State College, PA. This paper submission-based conference provides a forum for researchers, architects, engineers, other design professionals, product manufacturers, builders, developers, and code officials to discuss challenges to sustainable, energy efficient, healthy, environmentally friendly, natural hazard resistant, and affordable residential construction, and share recent research findings, state-of-the-art technologies, and innovative projects and approaches in the field.



**PENNSYLVANIA HOUSING  
RESEARCH CENTER**

The Abstract Submission Deadline is **March 18, 2019**.

To view the Announcement and Call for Submissions, [please click here](#).

Questions? Authors may contact Conference Secretariat Sarah Klinetob Lowe at [slowe@engr.psu.edu](mailto:slowe@engr.psu.edu).

### ► Introduction to Numerical Modeling in Geotechnical Engineering with Emphasis on FLAC Modeling

"Introduction to Numerical Modeling in Geotechnical Engineering with Emphasis on FLAC Modeling," will be offered January 25-26, 2019 in downtown Los Angeles, California. Taught by Dr. Siavash Zamiran, P.E., ASCE Young Engineer of the Year (St. Louis region), this course is recommended for civil, geotechnical, mining, petroleum, and geological engineers. EERI members will receive a \$200 discount by using the code "EERI" when registering. For more information, please [click here](#).

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## OPPORTUNITIES

### ► Job Listing: Geophysicist GS-1313-12/13 (DEU-YMJ):U.S. Dept. of the Interior

Open & closing dates: 11/01/2018 to 11/26/2018

Location: USGS, Menlo Park, CA

As a **GEOPHYSICIST within the Earthquake Science Center**, some of your specific duties will include:

-As **manager of the National Strong Motion Data Center (NSMDC)**, the incumbent is responsible for ensuring that the seismic data recorded by the NSMP is gathered, rapidly and accurately processed, archived, and readily disseminated to the professional, scientific, and



engineering communities. The incumbent is also responsible for organizing the metadata that describes the recording system characteristics of every station throughout the net...

See the [full job posting on usajobs.gov](#) for more information including responsibilities, requirements, compensation, and how to apply.

### ▶ Assistant Professor, Center for Earthquake Research and Information, University of Memphis

The Center for Earthquake Research and Information (CERI) at the University of Memphis invites applications for a tenure-track faculty position at the Assistant Professor level to begin in August 2019. We are searching broadly and seeking an individual to complement our existing strengths in seismology, geodesy, computational tectonics, earthquake physics and seismic hazard. We particularly encourage applicants with research interests related to Active tectonics, Continental/Lithospheric dynamics, Computational Geophysics, Exploration Geophysics, or Engineering Seismology. Applicants must have a Ph.D. at the time of employment and show a demonstrated record or strong promise of research productivity. [Read more about this opportunity.](#)



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## 📺 WELCOME NEW EERI MEMBERS

### ▶ EERI Welcomes New Members to the Institute!

#### Regular Members

Jelisa Thomas Adams, Geocon West Inc.  
Duke Crestfield, Triangle Engineering, *Structural*  
Mathias Franke, Kinemetrics  
Elliot Klein, FM Global, Research Division, *Geophysicist*  
Sylvia Laboy, WeatherPredict Consulting Inc., *Risk Analysis*  
Kevin Smith, Construction Specialties, *Structural*

#### Affiliate

Zewei Yu, Dalian University of Technology, *Civil*, China  
Ercan Yüksel, Istanbul Technical University, *Structural*, Turkey

#### Young Professional

Jade Eriksen, Dynamic Isolation Systems  
Nicole Errett, University of Washington, *Health Science*  
Melissa Meikle, Wiss, Janney, Elstner Associates, *Civil*

#### E-Affiliate





Fabricio Alejandro Cortez Herrera, Universidad de las Fuerzas Armadas ESPE, *Civil*, Ecuador  
Daniela Anaís Vivanco, Universidad de las Fuerzas ARMADAS ESPE, *Civil*, Ecuador  
Elvis Fabricio Curay, Universidad Politécnica Salesiana, *Civil*, Ecuador  
Jessenia Jacqueline Jácome, Universidad Politécnica Salesiana, *Civil*, Ecuador  
Bryan Mauricio Luna, Universidad de las Fuerzas Armadas Espe, *Civil*, Ecuador  
Santiago Ramiro Changoluisa, Universidad Politécnica Salesiana, *Civil*, Ecuador  
Abdullah Talha Mace, Istanbul Technical University, *Civil*, Turkey  
Camila Yessena Bahamonde, University, *Civil*, Ecuador  
Gabriela Soria, Universidad Politécnica Salesiana, *Civil*, Ecuador  
Edwin Guama, Universidad de las Fuerzas Armadas ESPE, *Civil*, Ecuador  
Elias Tavera, ERN, *Structural*, Mexico  
Hüseyin Ertuğrul Yıldız, Istanbul Technical University, *Architect*, Turkey  
Emre Niyazi Yazilikaya, Istanbul Technical University, *Mechanical*, Turkey

### ► Welcome New Student Members!

Sevgi Aksu, Istanbul Technical University, *Urban Planner*  
Andrei Bogdan Albu, TUCN, *Architect*  
Solongo Altanpurev, San Francisco State University, *Civil*  
Isabella Animadu, Cornell University  
Kianosh Ashkani Zadeh, University of British Columbia  
Patricia Asiatico, Virginia Tech, *Structural*  
Bela Bacs, TUCN, *Civil*  
Romana Dariana Benea, TUCN, *Architect*  
Stephanie Chausow, University of Michigan, *Structural*  
Leonardo Gigoth Chávez, Universidad Politecnica Salesiana, *Civil*  
Xian Chen, Dalian University of Technology, *Structural*  
Norbert Ors Deac, TUCN, *Civil*  
Allie Decker, California Polytechnic State University, San Luis Obispo, *Structural*  
Sahin Ozdogan Dede, Bogazici University/Kandilli Observatory and Earthquake Research Institute, *Civil*  
Scott deGuzman, University of Nevada, Reno, *Civil*  
Donald Allan DeMartino, Virginia Tech, *Civil*  
Gemma Dey, Virginia Tech, *Materials*  
Emilio J Diaz, California State University, Northridge, *Civil*  
Leah Dixon, University of Michigan, Ann Arbor, *Structural*  
Adam Doodokyan, University of Nevada, Reno, *Civil*  
Akın Düzgün, Istanbul Technical University, *Civil*  
  
Brayan Emmanuel, Universidad Autonoma De Baja California, *Civil*  
Meredith Fyfe, Western University, *Seismologist*  
Zsolt Gedo, TUCN, *Architect*  
Harpreet Gill, California State University, Sacramento, *Geotechnical*  
Paul Ginter, California State University Northridge, *Civil*  
Ashton Hunter, University of Nevada, Reno, *Civil*

Omar Issa, UCLA, *Structural*  
Chris Magnani Jackson, Virginia Tech, *Structural*  
Courtney C Jones, Virginia Tech, *Civil*  
Bishal Khadka, Virginia Tech, *Structural*  
Alex Komada, Virginia Tech, *Mechanical*  
Anjali Kumar, CSU Sacramento, *Civil*  
Ravi Kumar, University of Minnesota, Twin Cities, *Structural*  
Lenn Kushigemachi, UCLA, *Structural*  
Yin Sheng Li, Dalian University Of Technology, *Structural*  
Eric Lin, University of California, Berkeley  
Anthony Logrono Rodriguez, UNIBE, *Civil*  
Ligia Lupaescu, TUCN, *Civil*  
Ian McManus, Virginia Tech, *Civil*  
Britani Mendoza, University, *Civil*  
Luis Merchán, Universidad Politecnica Salesiana, *Civil*  
Stephania Moreno, California State University, Chico, *Civil*  
Camila Moya , PUCMM, *Civil*  
Elod Nagy, TUCN, *Civil*  
Ors Nagy, TUCN, *Civil*  
Irma Nazario Rivera, UC Irvine, *Civil*  
Victor Padilla De Dios, Universidad Autonoma de Baja California, *Civil*  
Yi Peng, University of California, Los Angeles, *Structural*  
Rowland Perez, University of Nevada, Reno, *Civil*  
Gabriela Petrut, TUCN, *Civil*  
Daniel Petrut, TUCN, *Civil*  
Alexandrea Ramiro, San Francisco State University, *Civil*  
Kevin Reyes, Cornell University, *Civil*  
Josue Rocha, Universidad Autonoma de Baja California, *Civil*  
Sabrina Rodriguez, California State University, Long Beach, *Civil*  
William Roser, University of Nevada, Reno, *Civil*  
Caden Rouiller, California State University Chico, *Civil*  
Rashid Safi, California State University Northridge, *Civil*  
Andy Sanchez, California State University, Northridge, *Civil*  
Mohamed Sayed, University of Toronto, *Civil*  
Benjamin Schnatz, University of Nebraska, *Structural*  
Dustin Seghorn, University of Nevada, Reno, *Civil*  
Mustafa Shafique, Virginia Tech, *Architect*  
Margaret Stack, University of California, Berkeley, *Structural*  
Andrew Stephenson, University of Nevada, Reno, *Civil*  
Andrei Szilagyi, TUCN, *Civil*  
Jessi Thangjitham, North Carolina State University, *Structural*  
Pin Qing Wang, Dalian University of Technology, *Structural*  
Anye Wang, Virginia Tech  
Leon Yen, San Francisco State university , *Civil*  
Hawariawu Yohannes, Virginia Tech, *Civil*

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## NEWS OF THE PROFESSION

### ▶ [Links to News & Views](#)

Seven (7) recent news articles, stories, opinions and reports from around the web.

- 1 NSF Creates \$3M CONVERGE Center to Augment Natural Hazards Research** (NHERI press release) To enhance the diversity of research underway in natural hazards, the NSF recently created CONVERGE, a \$3 million research center at the University of Colorado Boulder. **Lori Peek** (M.EERI,2011), professor of sociology and director of the Natural Hazards Center at UCB, is the principal investigator. [Read more](#)
- 2 National Institute of Building Sciences Issues Second Report on the Value of Mitigation** (NIBS Report) The latest report in a multi-year study on natural hazard mitigation was recently released by NIBS. The second in a series of interim results, *Natural Hazard Mitigation Saves: Utilities and Transportation Infrastructure*, examines the potential benefits associated with investing in mitigation for select utility and transportation infrastructure. [Read more](#)
- 3 Kaikōura's Earthquake Recovery Wins Prestigious Engineering Award** (TVNZ) The NZ Transport Agency, KiwiRail, and the North Canterbury Transport Infrastructure Recovery alliance won the Institution of Civil Engineers (ICE) People's Choice Award. The project was recognised in London for the way it's transformed people's lives, not only re-opening road and rail systems, but reconnecting people and allowing businesses to welcome back tourism. [Read more](#)
- 4 Video Shows Dramatic Landscape Changes Following Kāikoura Earthquake** (NewsHub) A new video shows some of the dramatic landscape changes in Kāikoura on the second anniversary of the devastating earthquake. GNS Science released the footage, which shows some of the drastic changes along the Papatea Fault that ruptured during the quake. [View the Video](#)
- 5 Quakes, Mudslides, an Active Volcano: Inside the World's Riskiest City** (The Guardian) Due to its unparalleled exposure to natural disasters, Manizales in central Colombia is globally recognised for its innovative approach to prevention and response. [Read more](#)
- 6 Tsunami are a Clear and Ever-Present Danger** (Japan Times) According to an analysis of the emergency events data base maintained by the Centre for Research on the Epidemiology of Disasters, nine of the ten strongest earthquakes ever recorded were accompanied by tsunamis. This review puts lives lost from tsunamis at 251,770, and economic losses at \$280 billion between 1998 and 2017. [Read more](#)
- 7 A Look Back at Asia's Most Devastating Earthquakes** (Time) With cities, dams and other infrastructure built atop some of the world's most active faults, six of the ten deadliest quakes in recorded history happened in Asia, as did many of the most costly. Here's a look at back at some of the most devastating temblors ever to strike the continent, beginning with the 1556 Shaanxi Earthquake in China that killed more than 830,000 people. [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](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."

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

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Monday, December 03, 2018

### **NHERI | Lehigh & FIU Joint User Workshop**

ADVANCED SIMULATION FOR NATURAL HAZARDS MITIGATION & CHALLENGES

AND OPPORTUNITIES FOR MULTI-HAZARDS ENGINEERING

A Collaborative workshop between NHERI Lehigh and NHERI Florida International University to be held at the NHERI Lehigh Real-Time Multi-Directional (RTMD) Facility in Bethlehem, PA

[Register](#)

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Wednesday, December 05, 2018

### **GEM Foundation's Global Earthquake Hazard and Risk Model presentation**

5 December, 2018

Pavia, Italy

[Provisional Agenda](#)

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Monday, December 10, 2018 - December 14

### **AGU 2018 Fall Meeting**

Washington, D.C.

[Registration](#)

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Thursday, December 13, 2018

### **NHERI@UCSD 4th Annual User Workshop**

NHERI@UCSD 4th Annual User Workshop

December 13 -14, 2018

University of California, San Diego

Main Campus (Lajolla, CA)

[REGISTER](#)

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Thursday, December 20, 2018 - December 22

**16SEEE**

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

December 20-22, 2018

Roorkee, India

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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.

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Thursday, January 17, 2019 - January 18

**PEER 2019 Annual Meeting**

[PEER Annual Meeting](#)

January 17-18, 2019

UCLA campus

Los Angeles, CA

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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

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Thursday, April 04, 2019 - April 06

**PCEE2019**

[The Pacific Conference on Earthquake Engineering \(11PCEE\)](#)

The 11PCEE will also be the NZSEE annual meeting for 2019

SkyCity, Auckland, New Zealand

[Conference Website](#)

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Tuesday, April 23, 2019 - April 26

**SSA 2019 Annual Meeting**

[SSA Annual Meeting](#)

April 23 - 26, 2019

Seattle, WA

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Monday, June 17, 2019 - June 20

**7ICEGE**

[VII International Conference on](#)

[Earthquake Geotechnical Engineering](#)

June 17-20, 2019  
Rome, Italy

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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

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Sunday, June 23, 2019 - June 26

**ICONHIC2019**

2nd International Conference on Natural Hazards and Infrastructure

23-26 June 2019

Chania, Greece

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Monday, December 09, 2019 - December 13

**AGU 2019 Fall Meeting**

9-13 December 2019 San Francisco, California

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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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