



The Pulse of Earthquake Engineering

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May 15, 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.

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NEWS OF THE INSTITUTE



▶ [11NCEE DETAILED PROGRAM SCHEDULE NOW AVAILABLE!](#)



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

11NCEE INVITED SPEAKERS



EERI is pleased to announce the release of the full detailed technical program for the 11th U.S. National Conference on Earthquake Engineering (11NCEE).

Plan ahead to prioritize, strategize, and optimize your conference experience!

We invite you to browse the detailed [Program Schedule](#) and [Schedule-at-a-Glance](#).

[REGISTER NOW](#)

Throughout the week of the conference (June 25-29, 2018) you will have many options to choose from, including:

- **67 Technical Topic Sessions** spanning a variety of topics and disciplines;
- **43 Special Sessions**, each with a unique interactive format and topic;
- **200+ Posters** on display;
- **Ten (10) Five-in-Five (5-in-5) Sessions** of 12-15 presentations each;
- **Nine (9) Concurrent Theme Sessions**;
- 40 teams competing in the 15th Annual Undergraduate Seismic Design Competition;
- Dynamic **plenary speakers** daily covering seismic hazard, risk, and policy;
- EERI's 70th Annual Meeting and Awards Luncheon; and
- Exciting social and networking events all week highlighted by a **special reception hosted by Computers and Structures, Inc.**



(CSI)

REGISTER NOW – Conference registration rates increase on June 1, 2018.

Please **make your room reservation at the Westin Bonaventure Hotel & Suites** as soon as possible. **Our block of hotel rooms at the reduced rate ends June 1, 2018!** Rooms may be available after the cut-off date, but they will be offered at a higher rate. Government hotel rates are available. Please contact us at 11ncee@eeri.org for assistance booking a room at the government rate.

For general questions about the conference and sponsorship opportunities please email 11ncee@eeri.org

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EERI MEMBER SPOTLIGHT

▶ Robert E. Bachman named a Distinguished Member of the American Society of Civil Engineers

Robert E. Bachman (M.EERI,1982), P.E., S.E., F.SEI, M.ASCE, was named a Distinguished Member of the American Society of Civil Engineers (ASCE). This is the highest honor to which a civil engineer can aspire; in the Society's 163-year history only 698 people have been elected to the honor. He will be inducted on Sunday, October 13, 2018 at the Celebration of Leaders Luncheon during ASCE's 2018 Convention in Denver, Colorado.

Bachman is recognized for the development of modern seismic design provisions adopted into the building codes of California and the United States. For the past 18 years he has been the senior principal of his own consulting structural engineering practice in Laguna Niguel, Calif. Bachman's work to improve life safety, cost-efficiency and resiliency have made him a leader in the practical advancement in seismic resistance of structures, components and equipment of all types.

As the chair of the Structural Engineers Association of California (SEAOC) State Seismology Committee, Bachman led the reorganization and development of landmark seismic provisions of the 1997 Uniform Building Code including an unfunded effort to create, develop and publish near field ground motion maps that allowed for the consideration of higher seismic forces near faults for the first time in the state's history. Bachman also led the user-friendly focused development of a second set of landmark seismic provision found in ASCE 7-05. Since its inception in 1989, Bachman has led the development of Seismic Guidelines for the



Robert Bachman

California Risk Management and Prevention Program and California Accidental Release Prevention Programs. These guidelines focused on seismic evaluations of existing industrial facilities that contain hazardous materials, and as a result of his work on this project, the new guidelines have been adopted by jurisdictions throughout California and are utilized throughout the world.

Read the full press release: "[Developer of Modern Seismic Design Provisions Named Distinguished Member](#)"

Photo credit: ASCE

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YOUNGER MEMBERS COMMITTEE WEBINAR

► Webinar now available for viewing: "[Assessing Safety, Search and Rescue: An Engineer's Role Following Disasters](#)"



Speaker: **John Lawson, SE** (M.EERI,1985)

[VIEW THE WEBINAR](#)

On May 2, 2018, EERI Younger Members Committee (YMC) hosted a webinar by **John Lawson** (M.EERI,1985) entitled, "Assessing Safety, Search, and Rescue: An Engineer's Role Following Disasters." The presentation focused a small group of engineers that volunteer to serve the public by jumping at the chance to evaluate potentially dangerous buildings up close following disasters. A recording of the webinar presentation is now available on [EERI's YouTube channel](#).

John Lawson is a licensed Structural Engineer in California and Arizona where he has over 30 years of consulting experience in design and evaluation of buildings. He has a Masters degree in Structural Engineering from Stanford University, and a Bachelors in Architectural Engineering from Cal Poly San Luis Obispo, where he is also currently an Associate Professor.

Mr. Lawson is also a Structural Specialist in FEMA's Urban Search & Rescue program, with special training in collapsed structures, and has been deployed to earthquakes, hurricanes, mudslides and the Oklahoma City Bombing.



John Lawson

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OPPORTUNITIES

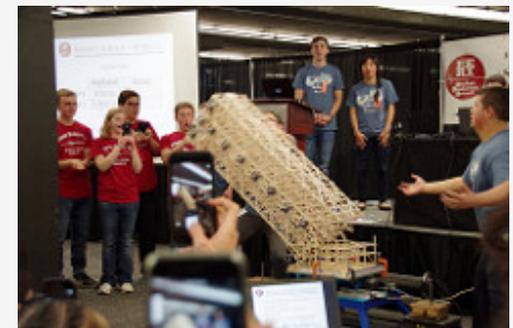
► Judges needed for the 15th Annual Undergraduate Seismic Design Competition

APPLY NOW - the deadline has been extended to June 1, 2018!

Do you have a desire to help future structural engineers succeed?

Do you have fond memories of your undergraduate Seismic Design Competition team experience?

Then you should volunteer to be a judge for the 15th Undergraduate Seismic Design Competition (SDC) at the Eleventh National Conference for Earthquake Engineering (11NCEE)!



The EERI Student Leadership Council is excited to announce the 15th Undergraduate Seismic Design Competition (SDC) at the Eleventh National Conference on Earthquake Engineering (11NCEE) in Los Angeles, California, in which 40 teams from all over the world will be participating. While the competition is organized by the Student Leadership Council, it is largely a collaboration with the EERI leadership and conference attendees.

We are looking for professionals and academics from all backgrounds to help us with the competition judging, which will take place throughout Tuesday June 26th. The time commitment for each judge will be about 1 hour, and no previous judging experience is required. This is a wonderful and rewarding opportunity to interact with the next generation of earthquake engineers! Judges can choose from SDC team presentations, posters, and architecture of the building models created by the teams.

If you are interested in becoming a SDC judge, please [apply](#) by June 1, 2018. Please be sure to indicate the time(s) you can volunteer on the form.

We appreciate your participation with the Student Leadership Council.

► Job Posting: Post-Doctoral Research Associate, Lehigh University

The Lehigh University Department of Civil and Environmental Engineering: **Professor Dan M. Frangopol** (M.EERI, 1987), Fazlur R. Khan Endowed Chair of Structural Engineering and Architecture, Center for Advanced Technology for Large Structural Systems (ATLSS Center), is looking for a Post-Doctoral Research Associate on projects related to life-cycle reliability and risk, maintenance, health monitoring, management and optimization of civil and marine infrastructure systems. Candidates must have a Ph.D. and strong background and research accomplishments in structural engineering in one or more of the following areas: Structural Reliability and Probabilistic Methods, Risk Assessment and Decision Making under Uncertainty, Climate Change Adaptation, Monitoring-Maintenance-Management-Cost of Civil and Marine Infrastructure (particularly bridges and ships), Structural Optimization, and Life-Cycle Engineering.



Lehigh has internationally respected programs and outstanding structural research facilities including the Computational Laboratory for Life-Cycle Civil Engineering. The interdisciplinary research program brings together internationally recognized faculty and staff that have a well-established tradition of developing and implementing technology.

Starting date is June 2018, but is negotiable.

Applicants should send a detailed resume, along with the names and addresses of three references to: Geri Kery, Coordinator to

► 2018 Fall/Winter Post-Graduate Internship Opportunity at EERI Deadline Extended



APPLY TODAY!

Application Deadline Extended to May 25, 2018

The Earthquake Engineering Research Institute (EERI) has an internship position available for recent graduates who are interested in gaining valuable professional experience while supporting the Institute's mission to reduce earthquake risk. Fall/Winter internships begin in July 2018 with an end date in January 2019. Applications should be submitted by May 25, 2018.

EERI internships are approximately six-months long, and offer engagement with a number of interesting EERI projects and Institute activities, including [Learning from Earthquakes](#), the [School Earthquake Safety Initiative](#), [World Housing Encyclopedia](#), [EERI Annual Meetings](#), technical seminars and webinars.

Tasks are varied, although day-to-day work focuses on supporting EERI projects and staff through research, project and event coordination, and website development and maintenance.

Interns are expected to work in EERI's Oakland, California office, which means living in the San Francisco Bay Area. (No moving or housing support provided). EERI interns are provided a monthly stipend of \$2,200 (\$2,500 for recent graduate students).

Interested candidates should [apply here](#). Preference is given to EERI members. Applications should be submitted by May 25,

2018.

[Learn more](#) about the EERI Internship program.

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ANNOUNCEMENTS

▶ [SimCenter Programming Bootcamp](#)

[More Information/Register](#)

Date: July 30 - August 3, 2018

Location: Richmond Field Station, Richmond, CA

Early-bird registration with a \$100 discount is available until June 22.

Applications for travel support are due by May 25.



The NHERI Computational Modeling and Simulation Center (SimCenter) is hosting a “SimCenter Programming Bootcamp.” The overall goal of the bootcamp is to train researchers in programming paradigms not covered in traditional civil engineering courses, but which are needed to advance their capabilities with regard to simulation for natural hazards engineering. The target audience is graduate students, postdocs, and new faculty who are interested in simulating the effects of natural hazards on components, structures, and communities. By the end of the workshop, participants will have a firm grasp of how to build applications that utilize SimCenter products and run on the high-performance computing platform hosted at [DesignSafe-CI](#).

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WELCOME NEW EERI BRONZE LEVEL SUBSCRIBING MEMBERS

► CoreBrace and Golder Associates

CoreBrace is a manufacturer of buckling restrained brace frames (BRBs) and other structural steel bracing products. All aspects of the CoreBrace BRB Fabrication process, from initial design coordination to inspection, fabrication and shipping, are performed at our AISC certified facility in West Jordan, Utah, USA. We have successfully tested over 60 full scale BRBs and are continually looking for new opportunities through ongoing research and development. We have successfully completed hundreds of projects throughout the world, including projects in The United States, Canada, New Zealand, Turkey, Papua New Guinea, Haiti, South America and elsewhere. We have been privileged to be involved with a wide range of project types including, hospitals, universities and schools, office buildings, stadiums, libraries, manufacturing facilities, industrial plants, and transportation hubs. The steady growth we have experienced has allowed us to increase our staff and expand our fabrication facility and production capacity, allowing CoreBrace to meet the continually growing demands for high quality BRBs. www.corebrace.com



Golder Associates has investigated earthquake hazards and provided earthquake engineering solutions for more than 50 years. We provide site-specific seismic hazard assessments and geotechnical earthquake engineering for projects located throughout the world. Based on our earthquake hazard and engineering advice, project owners have successfully licensed and built dams, power plants, bridges, nuclear energy and waste facilities, liquefied natural gas plants, pipelines, and hazardous waste facilities. Golder professionals provide seismic and geologic hazard services through all the stages of major development projects. Golder's seismic hazard and engineering recommendations assist in a project's environmental impact assessment, prefeasibility, feasibility, design, and construction stages. www.golder.com



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 WELCOME NEW MEMBERS

► Welcome New Members

EERI welcomes new members to the Institute (March 16 - May 9, 2018)

Affiliate

Govardhan Bhat, *Education*

Celal Kurtulus, Balikesir University, *Civil*

Rini Mulyani, Bung Hatta University, *Structural*

E-Affiliate

Maribel Alexandra Aldás, Universidad de las Fuerzas Armadas ESPE, *Civil*

Mohammad Hamid Elmy, Nangarhar University, *Structural*

Angie Paola Garcia Arevalo, Universidad de los Andes, *Risk Analysis*

Cesar Madera, *Civil*

Cesar David Mendez Duval, ONESVIE, *Structural*

Budi Satriyo, PT Jacobs Group Indonesia, *Geotechnical*

Regular

Juan Archilla, Department of Veterans Affairs

Tom Chan, Global Risk Consultants, *Structural*

DongSoon Park, K-water Convergence Research Institute, *Geotechnical*

Claudio Taniguchi, City of Manhattan Beach, *Emergency Prep Response*

Bill Tremayne, Holmes Structures, *Structural*

Zhaohui Joey Yang, University of Alaska Anchorage, *Geotechnical*

Young Professional

Marco Donà, University of Padova, *Civil*

Jayadipta Ghosh, Indian Institute of Technology Bombay, *Structural*

Pedram Hesam, Hinman Consulting Engineers, Inc., *Structural*

Andrew Mock, Stantec, *Structural*

Mahyar Sharifi Mood, University of Texas at Austin, *Geotechnical*

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► Links to Recent News and Views

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

- 1 Decades-Long March Continues to Rid San Diego of Quake-Vulnerable Buildings** (San Diego Union Tribune) Structural engineers learn lessons every time there's a major quake somewhere in the world, and they are increasingly concerned about several kinds of buildings, even some that are less than 20 years old. **Jorge Meneses** (M.EERI,2006), president of the EERI San Diego chapter, discusses earthquake scenarios, preparation, and awareness. [Read more](#)
- 2 How Hawaii's Newly Destabilized Volcano Caused a Magnitude 6.9 Earthquake** (Los Angeles Times) A magnitude 6.9 earthquake struck Hawaii Island on Friday, May 9, 2018 at 12:32 p.m. local time. The earthquake was triggered by the movement of magma underneath the eastern flank of the volcano, an area known as the East Rift Zone. [Read more](#)
- 3 San Francisco Earthquake Risks: Questions and Answers** (New York Times) Many readers had questions about the [April 17 article](#) posted on May 1 in the *Pulse*, "San Francisco's Big Seismic Gamble," on Twitter, Reddit, Facebook and in the comments section. Some were answered by EERI members: **Peter Yanev** (M.EERI,1973); **Lucy Jones** (M.EERI,2001); and **Ibbi Almufti** (M.EERI,2011). [Read more](#)
- 4 New HD Japan Quake & Tsunami Risk Model Released by RMS** (Artemis) EERI Silver Level Subscribing Member, **RMS** (M.EERI,1997), has announced the launch of a new and updated high-definition risk model for Japanese earthquake and tsunami risks, which incorporates the latest seismic map data as well as learnings from the Tohoku and Kumamoto quakes. **Mohsen Rahnama** (M.EERI,1998), Chief Risk Modeling Officer, comments on the launch. [Read more](#)
- 5 Earthquake Science Could Have Predicted North Korea's Nuclear Climbdown** (The Conversation) Just days after North Korea announced it was suspending its testing programme, scientists revealed that the country's underground nuclear test site had partially collapsed. This assessment was based on data gathered from smaller earthquakes that followed North Korea's biggest nuclear test in 2017. A new study has now confirmed the collapse using satellite radar imaging. [Read more](#)
- 6 Portland City Council Postpones Mandatory Quake Fixes For Old Brick Buildings** (NW News) Portland may become the first city in the Pacific Northwest to require all owners of old brick buildings to make earthquake safety upgrades, but not right away. A vote scheduled for May 9 on mandatory retrofits was postponed. The same issue is sidetracked in Seattle as officials scrounge for financial incentives to sweeten a mandate. [Read more](#)

7 Earthquakes on the Mississippi: The New Madrid Seismic Zone (How Stuff Works-Science) Despite its location, this area does have a history of large-scale earthquakes. It rests upon an old seismic zone straddling Missouri, Arkansas and Tennessee. Created millions of years ago, the sensitive spot produced massive quakes in the 19th century. Here's a brief history of the so-named New Madrid Seismic Zone with commentary by **Susan Hough**, USGS (M.EERI,1997). [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."

Tuesday, May 22, 2018

CSI Performance Based Design Seminar

May 22, 2018

7:30am-4:30pm

Hilton Auckland

Princes Wharf, 147 Quay Street

Auckland, 1010, New Zealand

[Register](#)

Monday, May 28, 2018

CSI Performance Based Design Seminar

May 28, 2018
7:30am-4:30pm
Hyatt Regency Sydney
161 Sussex Street
Sydney, NSW, Australia
[Register](#)

Thursday, May 31, 2018
11NCEE Last day to register before rates go up!

Wednesday, June 06, 2018 - June 07
ICEES 2018
ICEES 2018: 20th International Conference on Earthquake Engineering and Seismology
June 6-7, 2018
San Francisco, California

Sunday, June 10, 2018 - June 15
Geotechnical Earthquake Engineering and Soil Dynamics Conference V
Geotechnical Earthquake Engineering and Soil Dynamics Conference V
June 10-15, 2018
Austin, TX
www.geesd2018.org

Monday, June 18, 2018 - June 21
16th European Conference on Earthquake Engineering
16th European Conference on Earthquake Engineering
June 18-21, 2018
Thessaloniki, Greece

Monday, June 25, 2018 - June 29
11th U.S. National Conference on Earthquake Engineering (11NCEE)
11th U.S. National Conference on Earthquake Engineering (11NCEE)
June 25-29, 2018
Westin Bonaventure Hotel & Suites
Los Angeles, CA

Monday, July 09, 2018 - July 13

IABMAS2018: 9th International Conference on Bridge Maintenance, Safety and Management

IABMAS2018: Ninth International Conference on Bridge Maintenance, Safety and Management

July 9 - 13, 2018

Melbourne Convention and Exhibition Centre

South Wharf , VIC Australia

Thursday, July 26, 2018 - July 27

2nd International Conference on Natural Hazards and Disaster Management

2nd International Conference on Natural Hazards and Disaster Management

July 26-27, 2018

Melbourne, Australia

Monday, July 30 2018 3:00 PM - August 04 12:00 AM

NHERI SimCenter Programming Bootcamp

Richmond, CA

For details, link here: <https://www.eventbrite.com/e/nheri-simcenter-programming-bootcamp-tickets-44269285625>

Monday, August 20, 2018 - August 21

ICSSR 2018

ICSSR 2018: 20th International Conference on Structural Safety and Reliability

August 20 - 21, 2018

Barcelona, Spain

Thursday, August 23, 2018 - August 24

First International Conference on Earthquakes and Tsunamis

First International Conference on Earthquakes and Tsunamis August 23-24, 2018 Universidad del Mar Campus Huatulco Bahías de Huatulco, Oaxaca, México

Thursday, August 23, 2018

1-Day Short Course at CSUSD

Using DEEPSOIL: An equivalent linear and nonlinear seismic site response analysis software platform

Thursday, August 23, 2018

A 1-day short course led by Professor **Youssef Hashash** (M.EERI,1999), University of Illinois at Urbana-Champaign

Location: San Diego State University

Friday, August 24, 2018

Kenji Ishihara Colloquium Series on Earthquake Geotechnical Engineering

Kenji Ishihara Colloquium Series on Earthquake Geotechnical Engineering

Seismic Settlements

Friday, August 24, 2018

Location: San Diego State University

Hardy Memorial Tower

Monday, August 27, 2018 - August 31

ACEM18 and Structures18

2018 World Congress on Advances in Civil, Environmental, & Materials Research (ACEM18) and the 2018 Structures Congress (Structures18)

August 27 – 31, 2018

Songdo Convensia

Incheon, Korea

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

Deep Foundations Institute (DFI) 43rd Annual Conference

Deep Foundations Institute (DFI) 43rd Annual Conference

October 24-27, 2018

Anaheim, California

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

Sunday, November 4, 2018 - November 07

2018 GSA Annual Meeting

2018 GSA Annual Meeting

November 4-7, 2018

Indianapolis, Indiana

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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