

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

▶ South Napa Earthquake Documentation Continues via Virtual Clearinghouse

The Earthquake Engineering Research Institute has been maintaining a virtual clearinghouse website, on behalf of the California Earthquake Clearinghouse (an initiative lead by CGS, EERI, USGS, CalOES, and the California Seismic Safety Commission), to document the M6.0 South Napa Earthquake on August 24, 2014.

The [virtual clearinghouse website](#) and its [online multidisciplinary data map](#) serve as a repository for scientific and engineering observations from the earthquake and will remain a long-term data repository to archive information from this earthquake.

Recent updates to the virtual clearinghouse website include:

- EERI-PEER Reconnaissance Briefing. A video recording of the EERI-PEER Reconnaissance Briefing that was webcast on September 15, 2014 is available for online viewing along with the presentation slides at <http://www.eqclearinghouse.org/2014-08-24-south-napa/preliminary-reports/> .
- Reports. The preliminary reports webpage has a number of recent additions including the GEER, PEER, and ASCE TCLEE preliminary observation reports; slides from the USGS briefing; the SEAOC Convention special session; and much more. Visit the virtual clearinghouse website at <http://www.eqclearinghouse.org/2014-08-24-south-napa/preliminary-reports/> .
- Do you know of other reports or data that is missing? EERI encourages all colleagues to upload photos, data, or reports to the [virtual clearinghouse website](#) . If you have data, reports, or observations to add, please contact Alex Julius at alex@eeri.org (or Heidi Tremayne at heidi@eeri.org).

The virtual clearinghouse and data collection tools have been popular so far, as shown by the following statistics:

- **Virtual Clearinghouse Website:** 1,730 unique views in the first week (2551 total unique views)
- **Clearinghouse Fieldnotes Mobile Data Collection App:** 122 Observations submitted (photos and captions)
- **EERI Photo Upload Map:** 1,065 Observations (photos, captions, and now PDFs)



Building in downtown Napa.
Photo credit: Pooya Sarabandi (M. EERI, 2004), RMS

- **ArcGIS Online Map:** 3,772 views (includes 30+ data sets)

What's next for this data set? EERI is currently working to migrate the data visualization map for the Clearinghouse to the FEMA GeoPlatform for long-term archiving. Additionally, all collected data layers are being cleaned and uniform symbology is being adopted to make the map easier to interpret.

Still want more? EERI's Special Earthquake Report summarizing the multidisciplinary observations and findings from the earthquake is being produced and will be released in late October.

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► 2014 EERI Technical Seminar Series: Performance Based Design – State of the Practice for Tall Buildings

The Earthquake Engineering Research Institute (EERI) 2014 Technical Seminar Series focuses on the State of the Practice for Performance Based Seismic Design (PBD) of Tall Buildings. For the last decade, engineers in major cities along the West Coast have taken advantage of performance based design concepts to achieve structural designs of tall buildings that are not in strict compliance with the International Building Code prescriptive provisions. These projects reflected cumulative best state-of-the-practice information related to seismology, geotechnology, and structural design to provide the most complete platform for implementing performance based seismic design concepts on major design projects.

The seminar will begin with a history of performance based design and the use of guidelines, published by the Pacific Earthquake Engineering Research Center (PEER) and the Los Angeles Tall Buildings Structural Design Council (LATBSDC), in conjunction with the building code to form the basis of design for tall buildings. The focus will then turn to seismological and geotechnical considerations in the development of seismic demands in the form of both response spectra and ground motions for long period structures. This will be followed by a presentation on approaches for the modeling and analysis of these complex structures.

In addition, two case studies will be presented by structural engineers responsible for major tall building projects to demonstrate how the concepts have been put into place for actual structures. Since PBD is new and each project has unique features and challenges, peer review is an important component of the design process, and there will be a presentation on some of the lessons learned from peer reviewers. The final talk will discuss future directions of performance based seismic design, FEMA (ATC) 58, and moving present practice to the next level. The day will conclude with a panel discussion including a representative of a local building department who has been working with the developers and design team to help bring these landmark structures to fruition.

Dates and Locations

Wednesday, October 29: San Francisco, CA

Thursday, November 6: Seattle, WA

Friday, November 7: Los Angeles, CA

Registration

Register online or download a registration form for the 2014 EERI Technical Seminar Series at <https://eeri.org/cohost/registration/technical-seminar-2014>  and read the [technical seminar brochure \(PDF\)](#) .

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► Call for Nominations for the 2015 Bruce Bolt Medal



The Bruce Bolt Medal is 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 2015 Bruce Bolt Medalist.  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. 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 go to the [Bruce Bolt Medal webpage](#)  of the SSA website to view past recipients, the Nominee Criteria, and Nomination Procedure.

Note: The deadline to submit nominations for the 2015 award is **October 31, 2014** (incomplete nomination packages will not be considered by the Joint Nomination Panel). Please direct all questions to **Woody Savage** (M. EERI, 1975) at woody savage@gmail.com.

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► EERI Annual Student Paper Competition: Call for Submissions

The Earthquake Engineering Research Institute (EERI) is pleased to announce its Annual Student Paper Competition. The purpose of the competition is to promote active involvement of students in earthquake engineering and the earthquake hazards research community.

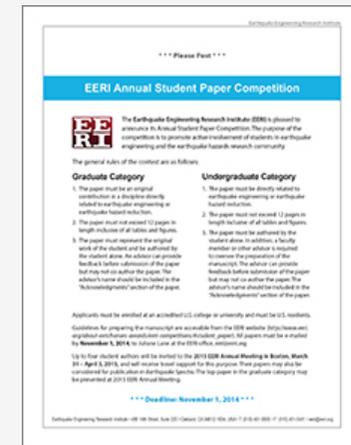
The EERI Student Paper Competition is open to graduate and undergraduate students. Applicants must be enrolled at an accredited U.S. college or university and must be U.S. residents. Contest rules for graduate and undergraduate paper categories are available on the competition flyer (PDF) at <https://www.eeri.org/wp-content/uploads/student-paper-competition-2014.pdf> .

Guidelines for preparing the manuscript are accessible on the EERI website at http://www.eeri.org/about-eeri/honors-awards/eeri-competitions/#student_paper . All papers must be e-mailed by **November 1, 2014**, to Juliane Lane at eeri@eeri.org.

Up to four student authors will be invited to the 2015 EERI Annual Meeting in Boston, March 31 – April 3, 2015, and will receive travel support for this purpose. Their papers may also be considered for publication in *Earthquake Spectra* . The top paper in the graduate category may be presented at the 2015 EERI Annual Meeting.

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IN MEMORIAM

► Remembering Ivan Skinner (1923–2014)

Eminent earthquake scientist **Dr. R. Ivan Skinner** (BE(Hons), DSc) is best known for his work while leading the engineering seismology section of the Physics and Engineering Laboratory (PEL) at the Department of Scientific and Industrial Research (DSIR) in the 1960s.

Ivan conceived the idea of “base isolation” to protect buildings and bridges against earthquakes. In 1993, he co-authored the original book on seismic isolation. It became an international bestseller in its field and has been translated into Chinese and Japanese.

He authored a handbook for architects and engineers that facilitated the hand calculation of earthquake-generated forces in tall buildings. In the days before computers, this was widely used and underpinned advances in earthquake analysis of structures.

Ivan facilitated the development of a high-performance severe-motion earthquake recorder for ground-level installation throughout New Zealand.

While at the DSIR, Ivan spent time overseas as an earthquake engineering expert for the United Nations Organization for Education, Science, and Culture (UNESCO), and also carried out engineering studies of destructive overseas earthquakes. From 1986 his work at the DSIR focused on research and applications of seismic isolation in New Zealand.

Ivan was the **Earthquake Commission’s** Research Director from 1994 to 2006, and was made a Fellow of the Royal Society of New Zealand in 1977, a Fellow of the New Zealand Society for Earthquake Engineers in the mid-1980s, and in 1990 received the Queen’s Medal for “services to New Zealand.”

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Dr. R. Ivan Skinner



Dr. Skinner in Caracas, 1967

PUBLICATIONS

► [Earthquake Spectra August 2014 Issue on the NGA-West2 Project Available Online](#)

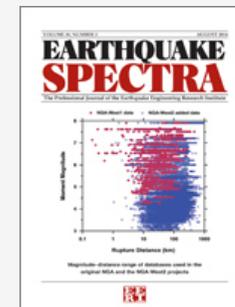
The August 2014 theme issue of *Earthquake Spectra* (volume 30, issue 3) on the NGA-West2 project is available in print and online at <http://earthquakespectra.org/toc/eqsa/30/3> .

The PEER NGA-West2 project produced substantial new data resources and simulation results to guide the development of state-of-the-art models for ground motion prediction applicable to active crustal regions, such as California. This special issue presents a series of papers describing the databases and the prediction models, as well as several additional critical issues related to the development or implementation of the models. These include modeling of directivity and directionality, scaling of pseudo-spectral accelerations for different levels of oscillator damping, evaluation of aftershock vs. main shock ground motions, treatment of epistemic uncertainties, applications of the models in USGS national hazard maps, and evaluation of site effects.

If you have questions about this *Earthquake Spectra* issue, you may contact Managing Editor **Liz Hogan Stalnaker** at liz@eeri.org.

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PROGRAM UPDATES

► EERI Post-Graduation Interns: Fall 2014

Two new post-graduation interns have joined EERI. The Institute would like to introduce **Samy Labbouz** and **Davide Martinelli**, who will be joining intern **Alex Julius** (M. EERI, 2014) at the EERI office in Oakland, California.

Samy Labbouz (M. EERI, 2014) graduated in 2012 from the University of Edinburgh (UK) with a BEng in Civil and Environmental Engineering. Samy spent his junior year studying at UC Berkeley, where he first came in contact with earthquake engineering and its community — and since has been constantly passionate and involved in research with the earthquake engineering and hazard mitigation disciplines. Some of his prime interests in the field include risk analysis and management. After graduating from Edinburgh, Samy went on to pursue his MSc in Structural Engineering at Princeton University, where he graduated from in 2014.

Davide Martinelli (M. EERI, 2013) is a recent graduate from Polytechnic of Torino with a Master of Science degree in Civil/Structural Engineering. At Polytechnic, he was president of the EERI Torino student chapter. He recently worked at the Pacific Earthquake Engineering Research Center (PEER) where he completed his master thesis within a large joint project between Polytechnic of Torino and UC Berkeley. As an EERI intern, he plans to contribute to the development of many projects to support the Institute mission and in particular to the Seismic Observatory for Community Resilience Program. After his internship at EERI, Davide will pursue his strong desire to play an active role in an engineering company.



Samy Labbouz, Alex Julius, and Davide Martinelli

EERI provides interns with multi-disciplinary professional experience and the opportunity to collaborate and network with others within the earthquake engineering profession. Each intern will focus on a specific endeavor of EERI. Samy is furthering the efforts of the [Concrete Coalition](#), Davide is contributing to the [NSF Resilience Observatory Project](#), and Alex will continue her work on the [California Earthquake Clearinghouse](#). Their roles, both in tandem and separately, will further progress EERI's mission — to gather and disseminate information about earthquake risk reduction and to advocate for realistic measures to reduce the harmful effects of earthquakes.

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MEMBER SPOTLIGHT

► Dan M. Frangopol and His Advisees Awarded the ASCE 2014 J. James R. Croes Medal

The American Society of Civil Engineers (ASCE) has awarded the 2014 J. James R. Croes Medal to Professor **Dan Frangopol** (M. EERI, 1987), the Fazlur Rahman Khan Endowed Chair of Structural Engineering and Architecture and a professor in the department of civil and environmental engineering at Lehigh University, and his then-Ph.D. advisees Dr. **Sunyong Kim** and Rossin Doctoral Fellow **Mohamed Soliman**.

The research team won the Croes Medal for their work on the paper, "Generalized Probabilistic Framework for Optimum Inspection and Maintenance Planning," which appeared in the March 2013 edition of the *Journal of Structural Engineering*. The Croes Medal is one of the two

most prestigious awards given by ASCE to one of more than 7,000 papers published in all of its thirty-four journals between July 1, 2012 and June 30, 2013.

The 2014 award earns Professor Frangopol his second Croes Medal. In 2001, he and his then-Ph.D. student **Michael P. Enright** were honored for the paper, "Condition Prediction of Deteriorating Concrete Bridges Using Bayesian Updating," which was also published in the *Journal of Structural Engineering*.

The medal award ceremony will take place in October during the ASCE Global Engineering Conference 2014 in Panama City, Panama. For more information, visit: <http://bit.ly/1sYitbG> 



Dan M. Frangopol

Sunyang Kim

Mohamed Soliman

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CHAPTER SPOTLIGHT

▶ Successful 1st Workshop Organized by EERI San Diego Chapter

More than 140 participants from all over the country and from Canada and Mexico attended the 1st Workshop on Geotechnical Earthquake Engineering organized by the Earthquake Engineering Research Institute (EERI) San Diego Chapter on Friday, September 12, 2014. The presentations given by the speakers at the workshop are posted on the [EERI San Diego Chapter website](#) 



The topic of the workshop was *Liquefaction Evaluation, Mapping, Simulation and Mitigation*, and the speakers included Dr. **Gonzalo Castro**, GEI Consultants, Inc.; Prof. **Ahmed Elgamal** (M. EERI, 1987), UC San Diego; Prof. **Kevin Franke** (M. EERI, 2008), Brigham Young University; EERI Honorary Member Prof. **I.M. Idriss** (M. EERI, 1972), UC Davis; Prof. **Geoffrey Martin** (M. EERI, 1979), USC; Dr. **Mitsuo Nozu**, Fudo Construction, Inc.; Dr. **Peter Robertson**, Gregg Drilling and Testing, Inc.; and Prof. **Jonathan Stewart** (M. EERI, 1994), UCLA.

Mr. **Tony Babaian**, UC San Diego Extension, and Prof. **Enrique Luco**, UC San Diego, participated in the opening ceremony. Dr. **Jorge Meneses** (M. EERI, 2006), GEI Consultants, Inc., and president of the EERI San Diego Chapter, was the moderator of the two interactive and lively panel discussions. The workshop took place on the UC San Diego campus and was sponsored by UC San Diego Extension, Geobruigg, and Fudo Construction, Inc.

The organizing committee for the workshop included **Jorge Meneses**; Prof. **Lelli Van Den Einde** (M. EERI, 1998), UC San Diego, Vice-President of EERI San Diego Chapter; **Tan Cao** (M. EERI, 2012), Kleinfelder/Simon Wong, Secretary/Treasurer of EERI San Diego Chapter; **Diane Murbach** (M. EERI, 1990), Murbach Geotech; **Michelle Chen** (M. EERI, 2012), UC San Diego; and **Monte Murbach**, Murbach Geotech.

The EERI San Diego Chapter plans to organize the 2nd Workshop on Geotechnical Earthquake Engineering in 2015. For further information, contact Jorge Meneses at jmeneses@geiconsultants.com.

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STUDENT SPOTLIGHT

► EERI Student Chapter Activities: University of Colorado Boulder

EERI Student Chapters engage in technical and social activities year-round, including hosting EERI Distinguished Lecturers and practitioners as part of the Friedman Family Visiting Professional Program. Many student chapters also enter the annual EERI Undergraduate Seismic Design Competition (SDC). Described below is some of the EERI Student Chapter at the University of Colorado Boulder's most energetic organizational and outreach efforts from its 2013–2014 annual report.

EERI Student Chapter at the University of Colorado Boulder

The 2013–2014 officers of the EERI Student Chapter at the University of Colorado Boulder are: President **Yolanda Lin** (M. EERI, 2013), VP **Cody Harrington** (M. EERI, 2013), **Sarah Welsh-Huggins** (M. EERI, 2013), **Kenneth Gillis** (M. EERI, 2011), and **Emily Elwood** (M. EERI, 2013). Assistant Professor **Abbie Liel** (M. EERI, 2009) in the University of Colorado Boulder Department of Civil, Environmental, and Architectural Engineering is the chapter's faculty advisor.

In its second year, the EERI Student Chapter established a monthly seminar, the Facilitating Learning About Seismic Hazards (FLASH) Seminar Series, which is designed to promote cross-disciplinary interaction and understanding via 30-minute talks. Topics range from structural bridge design to policy to geotechnical consideration. The series was positively received and will continue in the 2014-2015 academic year. This year's FLASH Seminar speakers included:

- Dr. **Shideh Dashti** (M. EERI, 2009), University of Colorado Boulder
- Dr. **Amy Javernick-Will**, University of Colorado Boulder
- Dr. **Abbie Liel** (M. EERI, 2009), University of Colorado Boulder
- Dr. **Keith Porter**, P.E., (M. EERI, 1998), University of Colorado Boulder
- Dr. **Petros Sideris** (M. EERI, 2007), University of Colorado Boulder
- **Kenneth Gillis** (M. EERI, 2011), Ph.D. candidate, University of Colorado Boulder

The EERI Student Chapter also joined local structural engineering firm S.A. Miro, and outreach program Shades of Blue, run by Lockheed Martin, to participate in outreach activities with local high school students in the Denver area. The student chapter also planned a technical field trip to the Denver International Airport, which was hosted by S.A. Miro, and showcased the development of the South Terminal Redevelopment Program.

In addition, the student chapter partnered with the university's civil engineering graduate student group to organize a welcome reception for prospective students at local pizzeria, which was the first of its kind.

EERI Seismic Design Competition

The student chapter sent an undergraduate team to compete in the EERI Seismic Design Competition this year in Anchorage, Alaska. Team members included: team captain **Ata Etezazian** (M. EERI, 2012), Tiago Almeida, **Tyler Leigh** (M. EERI, 2013), **Jared Leventhal** (M. EERI, 2014), Amin Mazdeh, and **Ruben Saucedo** (M. EERI, 2014). The team was mentored by graduate student officers, Sarah Welsh-Huggins and Yolanda Lin.

The student design team is grateful for their sponsors: Mary and David Lewis (S.A. Miro), JVA Inc., Martin/Martin, and the University of Colorado-Boulder College of Engineering and Applied Sciences. Together, these sponsors provided the funds for travel to the competition in



Anchorage, which would not have been possible otherwise.

Read the EERI Student Chapter at the University of Colorado Boulder's 2013-2014 annual report at <https://www.eeri.org/wp-content/uploads/EndOfYearReport2013-2014.pdf>  external link icon.

Call for Annual Report of Activities from EERI Student Chapters

EERI Student Chapter officers are encouraged to submit their annual report of chapter activities to Juliane Lane at the EERI Office via email at eeri@eeri.org. The reports will be published on the Student Chapters section of the EERI website and will be featured in upcoming issues of *The Pulse* throughout the year. Submit your chapter's annual report of activities to EERI today!

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ANNOUNCEMENTS

► SMIP14 Seminar on Utilization of Strong-Motion Data

The California Strong Motion Instrumentation Program (CSMIP) in the California Geological Survey (CGS) of the Department of Conservation established a Data Interpretation Project in 1989. Each year CSMIP funds several data interpretation projects for the analysis and utilization of strong-motion data. The objectives of the Data Interpretation Project are to further the understanding of strong ground shaking and the response of structures, to increase the utilization of strong-motion data in post-earthquake response, and to improve seismic design code provisions and design practices.

As part of the Data Interpretation Project, CSMIP holds annual seminars to transfer recent research findings on strong-motion data to practicing seismic design professionals, earth scientists and earthquake response personnel. The purpose of the annual seminar is to provide information that will be useful in seismic design practice, post-earthquake response, and the improvement of seismic design codes and practices.

This year's seminar will include presentations on topographic effects on ground motions, effects of multiple-component ground motion on building response, building code seismic provisions on the direction of loading, modeling sensitivity in performance-based evaluation of buildings, and effects of long duration ground motions on the performance of port structures. Invited presentations on engineering application of ground motion simulation, California earthquake early warning system, finite element modeling of a concrete gravity dam, and highlights of strong-motion data from the M6.0 American Canyon, Napa County earthquake will be included.

Date: **Thursday, October 9, 2014**

Location: **International House, UC Berkeley, California**

The seminar program and registration for the SMIP14 are available at <http://www.conservation.ca.gov/cgs/smip/Pages/seminar.aspx>  external link icon.

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► Loma Prieta 25: Save the Date

 The California Strong Motion Instrumentation Program (CSMIP) of the California Geological Survey

The 25th Anniversary of the 1989 Loma Prieta earthquake offers San Francisco Bay Area residents and area leaders an opportunity to inspire regional action for safer, more resilient communities.

On **October 16, 2014**, a commemorative public policy symposium with Bay Area thought leaders, community advocates, and elected officials will launch a three-year public policy program designed to spark quick recovery from future disasters and enact place-based action for a safer future in the places we call home.



The Loma Prieta 25 symposium program and registration details are available at <http://www.lomaprieta25.com>

 external link icon.

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▶ 2014 Buildings at Risk Summit: Strengthening Our Cities

Every year, the Buildings at Risk (BAR) Summit, presented by the Structural Engineers Association of Southern California (SEAOSC), brings together community leaders to present resources and tools for building owners, businesses, and government officials to understand the risk they face and how to mitigate losses.

The public is looking to civic leaders to protect them, and the issue has the attention of elected officials. The 2014 BAR Summit will delve into Los Angeles Mayor Eric Garcetti's and Dr. Lucy Jones' proposal for building retrofits and a rating system, and their offices will be helping to create content for the event.



With expected attendance of over 200 and the resulting anticipated media coverage, this event provides a unique opportunity to highlight your commitment to the region's economy and well-being, as well as your commitment to public safety.

Monday, October 20, 2014

The Center at Cathedral Plaza
555 West Temple St., Los Angeles, CA 90012

Register for the 2014 BAR Summit at <http://barsummit.org/registration/> .

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▶ 2014 COSMOS Technical Session

The Consortium of Organization for Strong Motion Observation Systems (COSMOS) will be holding its Annual Meeting and Technical Session on "Developing Site Specific Ground Motions to Satisfy the New Chapter 16 of ASCE 7-2016 Which Codifies the West Coast Tall Building Seismic Analysis Requirements" at the Crowne Plaza Hotel San Francisco Airport in Burlingame, California, on **Friday, November 14, 2014**.

The Crowne Plaza SFO is conveniently located at 1177 Airport Boulevard one block east of the 101 Freeway. The Crowne Plaza has a complimentary shuttle (runs every 30 minutes) from San Francisco Airport. For those coming by BART, the shuttle stop is located in front of the International Terminal upper level adjacent to the SFO BART Station. The airport shuttle schedule is available on their website. This year's Technical Session is again being co-sponsored by the Pacific Earthquake Engineering Center (PEER) and the California Geological Survey (CGS). Registration for the Technical Session will begin at 7:30 a.m. (with coffee and pastries). The Technical Session will begin promptly at 8:30 a.m. and with a lunch break at noon. The COSMOS Annual meeting will start at 12:30 p.m. and adjourn at 1:00 p.m. The Technical Session will reconvene and then end at 5:00 p.m. As in previous years, it will then be followed by a no-host cocktail hour.



This year's technical session will primarily focus on the development of site specific ground motions that satisfy the new requirements of brand new Chapters 16 and 19 of ASCE 7-16 which are finalizing development. Many of these requirements are somewhat vague in the areas

of selection, scaling and orientation of ground motions in both the near and far fields. The Chapter 16 codifies requirements for non-linear response history analysis and codifies tall building analysis requirements that are currently being used for tall buildings on the west coast. Chapter 19 codifies new requirements for soil structure interaction and base slab averaging that also be used by engineers to reduce seismic demands. The goal for this session is to have the authors of these Chapters explain the intent of the requirements and how they were expecting the ground motions to be developed and applied. Other areas that will be discussed include site specific max direction factors, site coefficients and vertical direction ground motions. Speakers on these subjects include **Curt Haselton** (M. EERI, 2010), **Jack Baker** (M. EERI, 2004), **Norm Abrahamson** (M. EERI, 1984), **Jon Stewart** (M. EERI, 1994), **Yousef Bozorgnia** (M. EERI, 1986), **Ron Hamburger** (M. EERI, 1988), **C.B. Crouse** (M. EERI, 1976), and **John Hooper** (M. EERI, 1987). As in years past, the last part of the Technical Session will include a lively panel session, which will allow a forum for discussion.

Registration fees are \$200 for COSMOS and PEER members and \$240 for nonmembers that include both lunch and refreshments. There is also a special reduced student rate of \$40. Program details for the COSMOS Annual Meeting and Technical Session are available at the COSMOS website at www.cosmos-eq.org .

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► 2015 Fazlur R. Khan Distinguished Lecture Series

The 2015 Fazlur R. Khan Distinguished Lecture Series will be held at Lehigh University, Bethlehem, Pennsylvania, in early 2015. Starting this year, the Structural Engineering Institute-Lehigh Valley Chapter will be awarding eligible attendees 1 PDH (professional development hour) credit per lecture.

The first lecture on Friday, February 20, 2015 at 4:30 p.m. features:

"Balancing" by **William Pedersen**, Founding Design Partner, Kohn Pedersen Fox Associates, New York, NY



The second lecture in the series on Friday, March 20, 2015 at 4:30 p.m. features:

"Structural Engineering at Mid-21st Century: Reengineering Our Roles" by **Glenn R. Bell** (M. EERI, 1997), Chief Executive Officer, Simpson Gumpertz & Heger, Waltham, MA

The third lecture in the series on Friday, April 17, 2015 at 4:30 p.m. features:

"Science and Art of Structural Engineering" by **Peter Marti**, Professor of Structural Engineering, ETZ Zurich, Zurich, Switzerland

For more information about the Fazlur R. Khan Distinguished Lecture Series, visit: <http://www.lehigh.edu/frkseries> .

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► 11th Canadian Conference on Earthquake Engineering

The Canadian Association of Earthquake Engineers (CAEE) is pleased to announce the 11th Canadian Conference on Earthquake Engineering, to be held July 21-24, 2015, in beautiful Victoria, British Columbia, Canada. The conference theme is "Facing Seismic Risk," encompassing seismic hazards, engineering, societal planning and response, facility performance, codes, and standards.

Abstracts and papers are invited on a wide range of topics related to planning, designing, defining, and response to seismic hazards, including all the topics listed online at http://www.canadianearthquakeconference.ca/?page_id=168

.

Short Courses

Half day or one-day courses will be offered in conjunction with the conference on:

- Updates and application to design of the National Building Code of Canada, 2015



- Updates and application to design of the seismic performance-based design intent and framework within Canadian Highway Bridge Design Code (CHBDC) Canada, 2014
- Instrumentation, monitoring and analysis of recorded motions from structures using OMA (full day course)

Abstract Guidelines

Abstracts will be accepted until Friday, October 31, 2014. Abstract length is approximately 300 words.

Instructions for uploading abstracts to the conference webpage will be posted shortly at www.canadianearthquakeconference.ca

 external link icon.

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JOB OPPORTUNITIES

▶ [Swiss Re Seeks Earthquake Associate or Flood Associate](#)

Swiss Re  is accepting applications for an Earthquake Associate or Flood Associate in Armonk, New York.

The candidate must have a strong interest and an advanced degree (Masters or Ph.D.) in a seismological science, hydrology, civil engineering - water resource engineering, earthquake structural engineering, or other related field. A successful candidate will need good to strong data management skills as well as experience with certain programming or statistical applications, such as MatLab. The individual should be highly motivated and is someone who can work in a team environment as well as individually. The ultimate responsibilities for the position are dependent upon the aspirations of the individual.

To read the full job description (PDF), visit: <http://bit.ly/ZDxY1B> .

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▶ [UC Irvine Tenured Faculty Position in Intelligent Infrastructure: Call for Applications](#)

The Department of Civil and Environmental Engineering at the University of California, Irvine invites applications for a tenured faculty position in Intelligent Infrastructure, with the possibility at either the Associate or Full Professor level, depending on the successful applicant's level of experience and qualifications.

The Department seeks a forward-looking scholar-engineer to expand its expertise in intelligent civil infrastructure and strengthen its structures faculty cluster. The rapid evolution of "smart cities" necessitates increasingly monitored, networked and automated urban infrastructure that must be more responsive to societal priorities, environmental needs and resource constraints. Research areas under this theme include enhancing reliability and performance of infrastructure with novel materials, sensing and controls systems, lowering the carbon footprint of civil infrastructure, making civil infrastructure more resilient to extreme events, and expanding the functionality of civil infrastructure in new and creative ways that promote quality of life and sustainability, especially in urban areas. It is expected that successful candidates will first and foremost offer strong disciplinary expertise, but the Department is particularly interested in candidates who also offer interdisciplinary research experience spanning environmental, technological, behavioral and/or policy aspects of intelligent infrastructure. The Irvine campus affords excellent opportunity for interdisciplinary collaboration with strengths in such areas as materials science, environmental science,



biotechnology, public health, energy, economics, planning, business, law, communications, control, computer science, information sciences, and sensor design and fabrication, among others. Additionally, the southern California region is a natural laboratory for smart cities research and, through its many programs and labs, the Department regularly interacts with agencies that construct, operate and manage infrastructure systems. This position represents an extraordinary opportunity to lead a research program at the forefront of smart cities research, in a dynamic and highly ranked public university located in a vibrant and growing mega-city, and with resource constraints (energy, water, air quality, ecosystem health) and significant natural hazards (earthquake, floods, and fire).

Candidates should possess a Ph.D. degree in civil engineering, structural engineering, systems engineering or a closely related field at the time of appointment, and be qualified to teach undergraduate and graduate engineering courses in civil engineering. For consideration at the Associate and Full Professor levels, candidates must demonstrate ground-breaking achievements in intelligent infrastructure research, a track record of successfully competing for major research grants, a dedication to excellence in education, and hold outstanding promise for future work.

To apply, candidates should submit a curriculum vitae, a statement of particular qualifications including teaching and research interests, and names and addresses of at least four references using the UC Irvine on-line application system: <https://recruit.ap.uci.edu/apply/JPF02618>
external link icon.

Review of applications will begin in December 2014. To ensure full consideration, applications should be received by **December 1, 2014**. The search will continue until the position is filled.

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SPOTLIGHT

▶ Welcome New EERI Members

EERI would like to take this opportunity to welcome new members who have joined the Institute this summer (mid June to mid September).

If you would like to connect with these new members, find them in the EERI [online membership directory](#) , which requires logging into the Member Resources Area of the EERI website. You will also find this information in the 2014 EERI Membership Roster, which was sent to members (who opted in for the publication) this month.

Regular Members

Ronald Begin, US Fish & Wildlife Service

Terry Cakebread, LUSAS

Eser Cakti, Bogazici University

Giada Gasparini, University of Bologna, *Structural Engineering*

Paulina Gonzalez, Universidad de Santiago de Chile

Waleed Khalid, Sound Transit

Oscar Lage, Dowl HKM

John Mander, Texas A&M University

Manuel Monroy, Golder Associates Inc

Jacob Olsen, Powers Fasteners

Shamim Pakzad, Lehigh University

Maria Polak, University of Waterloo
Rupa Purasinghe, California State University Los Angeles
Mark Rohrbach, Hayward Baker Inc
Victor Taboada, Norwegian Geotechnical Institute Inc, *Geotechnical Engineering*
Zifa Wang, Validus Re
Rob Witter, USGS
Peter Wood, New Zealand

Young Professional Members

Benjamin Aldridge, Shannon & Wilson Inc, *Geotechnical Engineering*
Esaly Wu, Canada, *Structural Engineering*

E-affiliate Members

Muhammad Ahmed, NED University of Engineering & Technology, *Risk Analysis*
Trevor Symes, Indonesia, *Civil Engineering*
Aditya Tan, CGG Services Indonesia, *Civil Engineering*
Mehmet Yilmazer, B.U. Kandilli Observatory, *Seismology*
Ying Zhou, Tongji University, *Structural Engineering*

Student Members

Arielle Abdon, *Civil Engineering*
Jeffrey Addison, California State University Fullerton, *Structural Engineering*
Yu Bao, McMaster University, *Civil Engineering*
Fernando Benitez, University of Puerto Rico, *Civil Engineering*
Bin Cai, Iowa State University, *Structural Engineering*
Nathan Champion, University of Alabama, *Structural Engineering*
Reagan Chandramohan, Stanford University, *Structural Engineering*
Adam Clauss, Purdue University, *Structural Engineering*
Gerardo Colon-Gonzalez, University of Puerto Rico, *Civil Engineering*
Martha Cuenca, University of Illinois, *Structural Engineering*
Arzhang Derakhshani, San Francisco State University, *Structural Engineering*
Mahesh Dhar, University of Memphis, *Geophysics*
Atabak Etemadi, University of Connecticut, *Structural Engineering*
Ashkan Ezazi, McMaster University, *Civil Engineering*
Cesar Gomez, St. Louis University, *Structural Engineering*
Bryan Hackman, Iowa State University, *Civil Engineering*
Jonathan Hartford, University of Alaska, *Civil Engineering*
Muhammad Hassan, SUNY Buffalo, *Structural Engineering*
Saeid Hayati, University of Alabama, *Structural Engineering*
Tu X. Ho, University of Alabama, *Civil Engineering*
Yamileth Jimenez, San Francisco State University, *Civil Engineering*
Chenhao Jin, University of Connecticut, *Structural Engineering*
Chloe Johansen, Georgia Institute of Technology, *Civil Engineering*
Victoria Johnson, Massey University (New Zealand), *Social Science*
Mark Jones, Virginia Tech, *Structural Engineering*
Babak Kamrani, University of California Davis, *Geotechnical Engineering*

Jonathan Kohlenberg, University of Colorado, *Civil Engineering*
Valeri Kolev, University of Connecticut, *Structural Engineering*
Joe Lee, Cal Poly Pomona, *Civil Engineering*
Zihui Ma, San Francisco State University, *Civil Engineering*
Sixu Li, McMaster University, *Structural Engineering*
Rosana Martinez-Castro, University of Connecticut, *Structural Engineering*
Wilma Molina, University of Puerto Rico, *Civil Engineering*
Lisa Moon, University of Adelaide, *Structural Engineering*
Saber Moradi, University of British Columbia, *Structural Engineering*
Mohammad T. Nikoukalam-Mofakham, University of Colorado, *Structural Engineering*
Mary Nguyen, San Jose State University, *Civil Engineering*
Tu Nguyen, University of Alabama, *Civil Engineering*
Brenda Perez-Huerta, California State University Fullerton, *Civil Engineering*
Ramla Qureshi, SUNY Buffalo, *Structural Engineering*
Rebecca Ramhmachhuani, IIT Delhi, *Civil Engineering*
Vidya Sagar Ronanki, University of Alabama, *Structural Engineering*
Christopher Sanchez, San Francisco State University, *Civil Engineering*
Collin Sewell, University of Alabama, *Civil Engineering*
Brittany Shakley, University of Connecticut, *Civil Engineering*
Vaibhav Singhal, IIT Kanpur, *Structural Engineering*
Nicholas Skok, Purdue University, *Structural Engineering*
Donald Spradling, University of Kansas, *Structural Engineering*
Daniel Stevens, McMaster University, *Civil Engineering*
Austin Straus, California State University Fullerton, *Structural Engineering*
Aimee Sylvia, San Francisco State University, *Civil Engineering*
Csilla Toth, UC Berkeley, *Geotechnical Engineering*
Chiara M. Tribulato, Italy, *Structural Engineering*
Anurag Upadhyay, University of Utah, *Civil Engineering*
Aileen Vandenberg, University of Connecticut, *Materials*
Fiorella Vasquez, San Francisco State University, *Civil Engineering*
George Yap, Cal Poly Pomona, *Civil Engineering*
Esra Zengin, Bogazici University, *Structural Engineering*
Changxuan Zhang, McMaster University, *Structural Engineering*
Shanglian Zhou, University of Alabama, *Civil Engineering*

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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."

Monday, December 09, 2019 - December 13

AGU 2019 Fall Meeting

9-13 December 2019 San Francisco, California

Tuesday, March 03, 2020 - March 06

EERI 2020 Annual Meeting/Natl EQ Conference

National Earthquake Conference & 72nd EERI Annual Meeting

March 3 - 6, 2020

Sheraton San Diego Hotel & Marina

San Diego, California

[website](#)

Wednesday, March 04, 2020 - March 06

2020 RBDCC

5th Residential Building Design & Construction Conference (RBDCC)

Hosted by The Pennsylvania Housing Research Center

March 4-6, 2020

Penn Stater Conference Center

State College, PA.

[website](#)

Monday, April 27, 2020 - April 30

SSA 2020 Annual Meeting

SSA 2020 Annual Meeting

27-30 April 2020 — Albuquerque, New Mexico

The 2020 Annual Meeting will be held in Albuquerque, New Mexico.

[Check back later for more information.](#)

Monday, September 14, 2020 - September 18

17th WCEE

The 17th WCEE will be hosted in Sendai, Japan, from September 14th to 18th 2020. Check <http://www.iaee.or.jp/> for more information.



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