



**VOLUNTEERS NEEDED TO REVIEW EPRS**

The SEAOC Board is convening an Ad Hoc Committee to review the SEAONC Earthquake Performance Rating System (EPRS) and is asking each region to nominate delegates to participate on the committee.

The primary charge of the Ad Hoc Committee will be to review the SEAONC EPRS from a technical perspective to identify what (if any) changes are required to adopt/promote the next edition of that document as a SEAOC product (not just a SEAONC one). The Ad Hoc committee will report directly to the SEAOC Board.

The SEAOSC Board will be selecting the SEAOSC delegates and is requesting that interested individuals submit their name for consideration. We are hoping to have a list of names for consideration by October 24 such that official delegates could be chosen by October 31.

The Ad Hoc Committee will likely meet 8-10 times between November and next September. Ideally, meetings will be web-based. The local delegates will need to interact closely with the local Seismology and Existing Buildings Committees (or at least the chair of each) and also solicit input from any other interested members in order to bring the range of our regional opinions to the discussions of the state-wide Ad Hoc committee.

We may indeed consider having meetings of a local version of the Ad Hoc committee (and/or additional joint meetings of Seismology and EBC) to discuss the topic. Additional conceptual background details of the Ad Hoc committee are also available.

Any member interested in participating in this role should contact Kevin O'Connell, SEAOSC President.

**NOVEMBER**

- 5** Image & PR Committee Meeting  
Luminarias, Monterey Park
- 5** "Reorganized ACI 318-14 Concrete Code"  
Los Angeles Dinner Meeting  
Luminarias, Monterey Park
- 7** SEAOSC NEWS Content Submission  
Deadline for December Issue
- 7** "State of the Practice for Tall Buildings"  
EERI Technical Seminar Series  
Los Angeles
- 11** Seismology Committee Meeting  
Cal Poly Pomona
- 12** "Architecturally Exposed Structural Steel"  
TriCounty Dinner Meeting  
Sheraton Hotel, Ventura
- 25** Existing Buildings Committee Meeting  
GoToMeeting

**DECEMBER**

- 3** Annual Holiday Party  
Jonathan Club, Los Angeles
- 5** SEAOSC NEWS Content Submission  
Deadline for January 2015 Issue
- 9** "Enhancing the Value of Your Engineering Firm & Exit Strategies"  
Webinar, GoToWebinar
- 10** Image & PR Committee Meeting  
GoToMeeting



**HOLIDAY PARTY: Wednesday December 3rd**

Kick off the holiday season with your SEAOSC friends. Members and their guests are invited to share in our celebratory Holiday Dinner and Scholarship Fundraiser held at the Jonathan Club in downtown Los Angeles. This year's event will include roof top cocktails, dinner, and a silent auction and raffle to benefit the upcoming Student Night scholarships. A detailed invitation to follow.

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By Kevin O'Connell, S.E.

**Wow!** The 2014 BAR Summit - Strengthening our Cities was a tremendous success. SEAOSC, along with our partners BOMA, CalOES, CALBO, and SCEC, put on an excellent program that drew over 300 attendees, which is by far our biggest turnout yet. A large focus of the BAR Summit this year was to engage as many non-engineers as we could, and we were successful! A variety of speakers and panelists, as well as a variety of attendees, led to a lively discussion about buildings, earthquakes, preparation and response, the challenges we face, and our past successes. A big thank you goes out to our event chair Victoria Wigle from Thornton Tomasetti, our event coordinator John Bwarie from Stratiscope, and our executive director Lynn Hanger, along with many others on the various committees who worked so hard on this important event. A special thank you goes out to Dr. Lucy Jones for being an outstanding advocate for safer buildings and a more resilient community. As I said at the BAR Summit, after several years of discussing the risks, this is the year that we get things done, this is the year we "Strengthen our Cities."

One of the things that excites me most about the BAR event, is that gets us, structural engineers, out of our usual comfort zone, and talking to the stakeholders and the community at large about buildings and seismic performance. It is probably obvious, but it is worth saying, that the BAR Summit is something bigger than structural engineering. We love to gather and discuss structural issues, whether it be a material, design methodology, or code provision, and there is certainly plenty of need for those discussions, but also important is our ability and need to spread the word about what we do. And what is it that we do? A few years ago, a well respected leader in our profession said that "structural engineers save lives". That's absolutely true. We save lives by designing safe buildings and retrofitting poor performing buildings. We also save lives by communicating our building knowledge to our clients and

community through structural evaluations and soon structural building ratings. We save lives by spreading the word about what structural engineers can do and being advocates for our community.

This outreach was apparent at the BAR Summit, and it was also apparent at the 2014 Red Cross Disaster Preparedness Academy. SEAOSC again participated in this event. Ryan Smith from Sideplate Systems, Eric Sotto from Ramon Garcia Structural Engineers, Doug Litchfield from Litchfield Engineering, and Sam Mengelkoch and Melineh Zomorrodian from Structural Focus, presented on various topics concerning the seismic safety of buildings. At this event, and through these presentations, SEAOSC was able to reach more people in our community to continue the discussion about the seismic performance of buildings, and for that we are all grateful.

I hope by now that you might be a little more interested in joining our quest, and are probably asking how you can get involved. The easiest way to get involved and make a difference is to join one of our SEAOSC committees. Your SEAOSC Board of Directors is working hard to fine tune the mission and charges of each committee to provide clear direction so that the committees can be productive and provide the greatest benefit to our membership. At the end of this newsletter you will find a list of our committees including the contact information for the committee chair and the board contact for each committee.

I encourage you to get involved, share your knowledge, and ultimately improve our community.

Respectfully,

Kevin O'Connell, S.E.  
SEAOSC President

## SEAOC and the United States Resiliency Council (USRC): A History of One Very Short Year

By the SEAOC Board of Directors

**The SEAOC Board of Directors**, on September 10, 2014, voted unanimously to reaffirm the organization's commitment to participate as a founding member of the US Resiliency Council. The Board made this decision while recognizing that SEAOC is a diverse organization, and that some members have expressed reservations or objections about continuing that commitment. However, a substantial number of members and nearly all organizational leaders have spoken strongly in favor of SEAOC's continued engagement, and that is the course SEAOC will pursue.

### **January 2014**

In January 2014, the SEAOC Board agreed to support in concept the broad goals of the USRC, which include deployment of an appropriate building rating system to evaluate expected building performance during and after various man-made and natural events, including earthquakes.

The Existing Buildings Committee of SEAONC, one of SEAOC's Member Organizations, has been developing one such rating system – the Earthquake Performance Rating System (EPRS) – for several years. That process has been open, thoughtful, and rigorous, and the subject of newsletter articles and convention presentations. Although the EPRS is not specifically a SEAOC creation, it results from a great show of vision and enterprise by one of our Member Organizations. SEAOC is pleased that the USRC is considering the EPRS for its program.

### **April 2014**

In April, the Mayor of Los Angeles announced that the City of Los Angeles would be adopting a building rating system to evaluate the seismic vulnerability of the city's building stock. With this announcement, the USRC began recruiting founding members to provide start-up funding and help define the USRC organizational structure and operating policies.

### **May & June 2014**

In May and June 2014, the SEAOC Board of Directors and

the boards of SEAOC, SEAONC, SEAOSC and SEAOSD agreed to provide a total of \$6,000 in financial support to the USRC over the next two years. The Boards also agreed to recruit members to serve as representatives to the USRC Technical Advisory and Governance committees

In addition, at the USRC's invitation, SEAOC convened an ad hoc committee of SEAOC members to develop recommendations for USRC certification of building evaluators. The USRC intends to start certifying evaluators in December 2014 in advance of making the evaluation service available to the public in February 2015. On September 10, 2014, the SEAOC Board voted unanimously to approve the ad hoc committee's draft recommendations for the "Certification and Appeals Process." It is understood that USRC will consider, adapt, and adopt all, part, or none of these recommendations as it sees fit.

SEAOC and its Member Organizations are proud to serve as founding members of the USRC. As five among almost 50 founding members, SEAOC can play a key role in helping to shape the USRC's objectives, policies, and the outcomes of its work.

SEAOC and its MOs have each chosen several representatives to serve on the various USRC committees. These representatives are the conduits for our organizations' input. Any members with questions or comments about the USRC's work or our involvement with it should contact the President of your Member Organization board. Your input then will be conveyed to the appropriate representative.

### **October 2014**

In addition, at 12 noon Thursday, Oct. 30, SEAOC will offer an informational webinar updating members on the USRC's work, SEAOC's role in it, and how members can get involved. SEAOC President Ryan Kersting and the USRC's Ron Mayes will be the presenters. The webinar will be free to all members. Watch for a formal announcement in the coming days.



1. LA Times reporter Ron Lin moderates a morning panel on earthquake risk and the cost of doing nothing, with panelists from the building owner, natural hazard risk, and legal perspectives. From L to R: Ron Lin, SEAOSC and steering committee member Garry Myers, John Eichler of Cushman & Wakefield, Alex Yanev of Yanev Associates, Kerry Morrison of Hollywood Property Owners Alliance, and Brian Stewart of Collins Collins Muir + Stewart.

2. Dr. Lucy Jones, seismic safety advisor to Mayor Garcetti, and Martha Nitknam-Cox of BOMA discuss the morning program and policy panel over lunch.

3. Attendees provide input on earthquake policies following the lunchtime policy panel. This feedback is being compiled to be sent to government officials and community leaders throughout Southern California.

4. SEAOSC President Kevin O'Connell and SEAOSC members Joe Stewart, member of this year's steering committee, and Luis Toranzo, who presented as part of the retrofit case study sessions, enjoy lunch before the afternoon breakout sessions.

5. Attendees engage in a policy panel just before lunch to hear how things get done in our local governments. Panelists include La Habra Heights Councilmember Kyle Miller as well as representatives from LA Councilmembers Mitch Englander and Tom LaBonge's offices.





Pacific Earthquake Engineering Research Center (PEER)

September 25, 2014

FOR IMMEDIATE RELEASE

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**South Napa Earthquake:**

**PEER Preliminary Notes & Observations Report Available**

The Pacific Earthquake Engineering Research Center (PEER) has just published Report No. 2014/13 titled "Preliminary Notes and Observations on the August 24, 2014, South Napa Earthquake". The information contained in the report is the result of extensive preliminary field reconnaissance and initial analysis of ground motion records obtained in the days following the South Napa earthquake on August 24, 2014. A large number of faculty, staff, and students associated with PEER and other research and educational groups at affiliated campuses have been involved in these studies.

The material in this report includes discussion of:

1. Characteristics of strong motion records
2. Overview of damage in downtown Napa
3. Behavior of nonstructural elements in buildings
4. Detailed examination of some unreinforced masonry buildings (URM)
5. Examination of some buildings in downtown Napa
6. Drone-enabled aerial and ground-based LIDAR surveys of damage to bridges and buildings
7. Fire following earthquakes



Pacific Earthquake Engineering Research Center (PEER)

September 25, 2014

FOR IMMEDIATE RELEASE

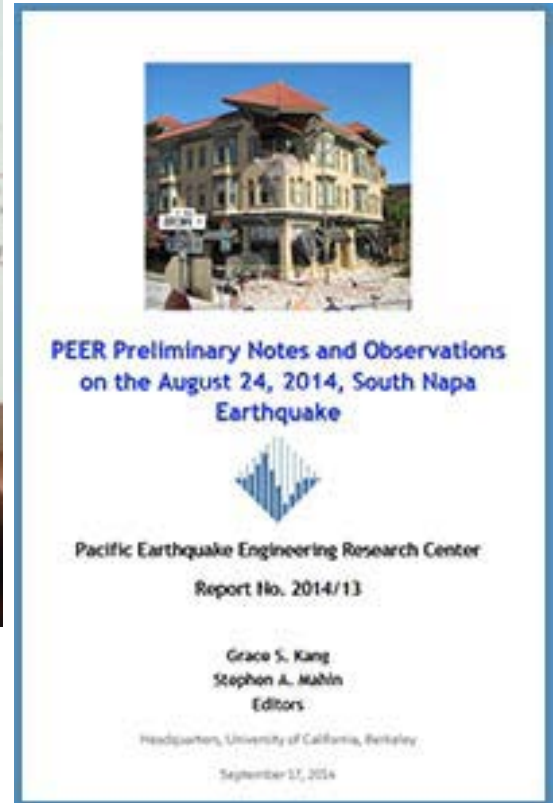
+++

**South Napa Earthquake Briefing Video Now Available**

Video of the September 15, 2014, reconnaissance briefing of preliminary observations from the South Napa Earthquake of August 24, 2014 is now online. The event was cohosted by Earthquake Engineering Research Institute (EERI) and the Pacific Earthquake Engineering Research Center (PEER) and drew more than 100 people to the event with over 1,170 more watching the live webcast.

Watch the video on PEER's YouTube channel at [http://www.youtube.com/watch?v=R1A7zAi8\\_I&feature=youtu.be](http://www.youtube.com/watch?v=R1A7zAi8_I&feature=youtu.be)

For more information contact: Grace Kang, SE, PEER Director of Communications, at 510-642-3462, [g.kang@berkeley.edu](mailto:g.kang@berkeley.edu).



## To SEAOSC Safety Assessment Program Evaluators

First Grab your camera (you still have 5 minutes)

Drop, Cover, Hold on (10:16 time to rock and roll)

Get that action shot (Dust off that imaginary dust)

You just saved a life (yours)

Check on your family, colleagues and friends.

Now let me know that you are alive and well by responding to this email with your availability IF there should be an earthquake. Don't forget to attach those "geotagged" action photos. I will tally the response and get you the numbers.

Attached is the first photo of the day, compliments of Joe Valancius.

Thanks in advance for your overwhelming response.

SoCal Strong,  
Doug Litchfield, PE, CEM  
Disaster Emergency Services, Structural Engineers Association of Southern California  
[909-392-5353](tel:909-392-5353) (office) [818-913-3558](tel:818-913-3558) (cell)

THE GREAT  
SHAKEOUT



*Center Joe Valancius, SEAOSC Board of Directors, with Steven Dillon, left, and Peter Sarkis, right.*



## MEMBER SPOTLIGHT

**Garry D. Myers, S.E.**  
Member since 1973  
Honorary Member since 2014  
MKC Global Protection, Inc.



### OFFICIAL PRESS RELEASE:

Garry D. Myers, CEO and John E. Crawford, President are pleased to announce that MKC Global Protection, Inc. (MKC) has entered into strategic relationships with two leading consulting firms.

Yanev Associates, Orinda, CA, is the world's leading natural hazards risk management consultancy focused on mitigating risks leading to business interruptions of its clients. Both Yanev and MKC offer consulting services in the control of risk resulting from transport and industrial blasts, terrorist attacks and natural hazards, including earthquakes, hurricanes, tsunamis, typhoons, tornados and floods throughout the Americas, Middle East, Asia and Africa.

The MAA Group, headquartered in Taipei with offices throughout China and Southeast Asia, provides geotechnical, civil, structural, environmental consulting and design services. MAA focuses on sound designs for transportation and other infrastructure and buildings.

MKC with its associated firms contracts with governments, NGO's, military and defense agencies and private clients to assess and build infrastructure, facilities and buildings to meet the client's needs.

For more information, contact:

MKC Global Protection Inc.  
700 N. Brand Blvd., Suite 750  
Glendale, CA/USA 91203  
E-mail: [gmyers@mkcglobalinc.com](mailto:gmyers@mkcglobalinc.com)  
Tel: +1.818.844.1866

**Favorite Movie:** Last Picture Show

**Proudest Accomplishment:** 1984 Olympic Games, Los Angeles, Exposition Park Venue

**Childhood Ambition:** To become an engineer.

**Biggest Challenge:** Introducing MHP, SidePlate Systems and MKC Global Protection, Inc. respectively to the marketplace over the years.

**First Job:** Bridge and Highway design, Los Angeles, County Road Dept.

**Best Job:** All of them!

**Why Join SEAOSC:** To promote, enhance and advance our structural engineering profession and our place in society.

**Next Steps:** Expand markets for blast design and risk assessment overseas in combination with natural hazards risk.

October 14, 2014

Mr. Kevin O'Connell, S.E.  
**President, SEAOSC**

c/o Lynn Hanger  
**SEAOSC Executive Director**  
1105 S. Euclid St., Suite D409  
Fullerton, CA 92832

sent via email, to: [seaosc@seaosc.org](mailto:seaosc@seaosc.org)

**Subject: Visions of Technology**

Dear Mr. President:

All parts of modern society have been, and will continue to be, affected by the changes induced by technology. To this, the structural engineering profession carries no exception. We have all seen the changes and increased efficiencies that have been brought on by the advent of computers, advanced analytical techniques, and the introduction of computer-aided drafting tools. What is the future of our profession? Will the advent of even newer technology continue to improve our efficiency to conduct work, or will even more radical artificial intelligence software eventually create a fundamental change in our profession?

My concern in raising this topic is that, as an organization, we seem to have “buried our heads in the sand” for too long (while we have privately continued to seek out new and more efficient means of doing work). The one thing that is certain is that the continuing march of technology is unstoppable.

**The structural profession needs to improve its vision of the future.** We all need to be able to foresee and plan for the pending changes that will occur during the next 5, 10, and even 20 years into the future. For this reason, I see that there is a great need to establish a visionary group that can forecast and share emerging trends in our profession. This group might be conducted under the auspices of professional associations such as SEAOC or NCSEA, within a “think-tank” organization such as ATC, or perhaps at a higher level, such as under a NSA-funded effort.



Mr. Kevin O'Connell, S.E.

**President, SEAOSC**

October 12, 2014

Page 2

Some simple and obvious examples of technology that need to be considered include:

1. **Engineering analysis and design software.** What are the limits to growth of this technology, and what should we be planning to become commonplace in the next 5, 10, or 20 years?
2. **Computer-generated construction documents.** We have all seen the transition from manual-drafting to 2-D CAD, but these media both rely upon the fundamental description of design intent via two-dimensional plans. Now many of us are beginning to see the introduction of 3- or even 4-dimensional construction documents that are generated using building-information-modeling software.
3. **Communications with owners, contractors, and the construction trades.** Long-established shop-drawing and RFI procedures are increasing becoming obsolete. In some instances, structure fabrication drawings are being replaced by detailed fabrication models, that are verified and approved electronically, and that directly feed information to cutting and fabrication equipment.
4. **Camera- and manipulator-equipped drones.** Will these devices eventually be used to conduct construction observation, and even inspection practices?
5. **Business management and planning tools.** We all have become accustomed to spreadsheets and various scheduling and Gantt software. Will these tools continue to evolve in their current direction, or will they eventually link up to larger BIM models? And what problems will the conduct of business in this manner affect related accounting and even legal professions?
6. **Project-shared servers.** Construction documents are increasing being placed "in the cloud," where they are accessible to other members of the design and business team. Are we creating risks associated to ethical conduct, hackers, or legal claims?

With some slight consideration, I am certain that other topics may be considered relevant, such as the advent of tablet computers on the jobsite for viewing and annotating drawings, capturing photos, etc.

For aspiring design professionals who are planning to enter into our profession, these considerations should bear great weight. And I strongly believe that SEAOC should be taking a strong and leading role in the establishment of a visionary group to provide this information.

Sincerely yours,

Martin W. Johnson, S.E.

Director,

**ABS Consulting**

**SEAOSC Honorary Member**

**SEAOC Fellow**

SEAOSC announced NEW sponsorship packages in January for 2014-2015. Thank you to the following companies for their generous sponsorship. We look forward to working with you closely in the year to come.

**ICC Evaluation Service  
BillQuick  
Simpson Strong-Tie**

If you or your firm are interested in a sponsorship, please view the available packages and details from the homepage of [www.seaosc.org](http://www.seaosc.org) or in the January 2014 Newsletter issue.

**BOTH MENTOR & PROTEGE NEED TO WORK TOGETHER**

Career advice from Kristen Schlatre, associate director of the Center for Philanthropy and Nonprofit Leadership at Rice University

**Most people who have achieved success in their lives can point to a mentor who provided some kind of help or advice along the way.**

**MENTOR**

Kristen Schlatre says there are specific qualification or qualities a strong mentor needs to have so that a younger associate can truly benefit from the mentoring arrangement:

- Being comfortable with accountability
- Having an ability to commit time to the relationship
- A positive professional reputation
- Being experienced and successful
- Personal discretion
- Being a strong communicator

**MENTEE**

It is not just the mentor, however, Schlatre said that the person benefiting from the mentoring, the “mentee”, also needs the following personal qualities:

- Initiative
- Being receptive to feedback
- Clear communication skills
- Flexibility
- Willingness to implement change
- Professional maturity
- Negotiation
- Being responsive
- Interpersonal skills.

**CAREER  
COACH**



Kristen Schlatre, CFRE, Associate Director of the Center for Philanthropy and Nonprofit Leadership, is responsible for the professional development and certificate programs provided through the Center. She holds an MPA in Nonprofit Management and MA in Philanthropic Studies from Indiana University.

Article adapted from The NonProfit Times, Sept. 29, 2014



# TriCounties Dinner Meeting

Wednesday, November 12, 2014

## Program: "Architecturally Exposed Structural Steel- Realizing Your Expectations"

Architects want the architecturally exposed structural steel on projects to meet their expectations for appearance and budget. Fabrication, erection and acceptance criteria can be difficult to define in the project documents, often leading to disputes between the designer and the contractor over what is desired vs. what was bid.

Building on language in the *AISC Code of Standard Practice*, participants in the program will see how they can more effectively communicate the desired appearance for exposed structural steel in a format that contractors can price/budget/bid appropriately. Resources and tools are provided to assist in selection, specifying, budgeting and evaluation of architecturally exposed structural steel.

Location: Four Points by Sheraton Ventura Harbor Resort, 1050 Schooner Dr., Ventura, CA 93001

### Speaker: Lorena Arce, P.E.

Lorena Arce is the Southwest Regional Engineer for AISC. She represents Southern California, Arizona, Southern Nevada, New Mexico, Utah, & Western Colorado, as well as Hawaii. She will be working with design professionals as an educational resource on the technical and economic aspects of building with structural steel.

Prior to joining AISC, she worked for several years as a Field Engineer for Hilti developing project and application solutions by working with local design and construction professionals in the Los Angeles area. She received a Bachelor of Science in Civil Engineering from CSU Long Beach with an emphasis in Structural Engineering. She immediately began her career as a design engineer for VanDorpe Chou Associates in Orange, California. Under this service, she obtained registration as a California Professional Engineer.

Time: Social Hour & Networking 5:30 p.m.; Dinner 6:30 p.m.; Program 7:30 p.m.

Cost: Member \$35, Students: \$25; Reserve a Table: \$245; Walk-ins: \$45

Reservations: Make advance reservations including vegetarian requests via SEAOSC.org. Online registration closes 10 pm the day before the event. "Walk-ins" welcome at the door. Cancellations received prior to the event date are eligible for a full refund.

### TriCounties DINNER MEETING RESERVATION FORM:

Please print legibly!



Attendee(s): \_\_\_\_\_ @ \$35 = \$ \_\_\_\_\_  
Table(s): \_\_\_\_\_ @ \$245 = \$ \_\_\_\_\_  
Students: \_\_\_\_\_ @ \$25 = \$ \_\_\_\_\_

# of Vegetarian Entrees Requested \_\_\_\_\_

**TOTAL = \$ \_\_\_\_\_**

Contact/Attendee Name(s): \_\_\_\_\_

Phone: \_\_\_\_\_ Email: \_\_\_\_\_

Card number: \_\_\_\_\_ Expiration date: \_\_\_\_\_

Signature: \_\_\_\_\_ Zip Code: \_\_\_\_\_

**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**

The Consortium of Organization for Strong Motion Observation Systems (COSMOS) will be holding its Annual Meeting and Technical Session at the Crowne Plaza Hotel San Francisco Airport in Burlingame, California on Friday, November 14<sup>th</sup>. 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 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 am (with coffee and pastries). The Technical Session will begin promptly at 8:30 am and with a lunch break at noon. The COSMOS Annual meeting will start at 12:30 pm and adjourn at 1:00 pm. The Technical Session will then reconvene and end at 5:00 pm. 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, Jack Baker, Norm Abrahamson, Jon Stewart, Yousef Borzognia, Ron Hamburger, C.B. Crouse and John Hooper. 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 includes 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](http://www.cosmos-eq.org) .



## Free Design and Engineering Support for Wood Buildings

**TECHNICAL SUPPORT** – Free one-on-one project support from experts in wood design—email [help@woodworks.org](mailto:help@woodworks.org)

**ONLINE TRAINING** – Webinars, design examples, case studies

**WEB-BASED TOOLS** – CAD/REVIT details, calculators, span tables, product and design guides

**EDUCATIONAL EVENTS** – Wood Solutions Fairs, workshops, in-house presentations



**WoodWorks**  
WOOD PRODUCTS COUNCIL



Photos: Mercer Court, University of Washington, Ankrom Moisan Architects, courtesy WG Clark Construction  
Arena Stage at the Mead Center for American Theater, Nic Lehoux, courtesy of Bing Thom Architects



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

A technical seminar series supported by  FEMA Department of Homeland Security

## SEMINAR PROGRAM (8:30 a.m. – 4:30 p.m.)

Speakers listed worked on presentation development; only one speaker will present on each topic at each venue.

### Introduction and History of PBD

Ron Hamburger, *SGH*

### Guideline Documents (LATBSDC/PEER)

Farzad Naeim, *Consulting Engineer*;  
Jack Moehle, *UC Berkeley*

### Using Ground Motions & SFSI

Jon Stewart, *UCLA*; Marshall Lew, *AMEC*

### Structural Analysis & Modeling (ATC 72-1/ASCE 41)

Greg Deierlein, *Stanford University*

### Case Study 1: Concrete Building Design

John Hooper, *MKA*; Ron Klemencic, *MKA*

### Case Study 2: Steel and Hybrid Building Design

Nabih Youssef, *Nabih Youssef & Assoc.*;  
Leonard Joseph, *Thornton Tomasetti, Inc.*

### Lessons from PBD Peer Reviews

Farzad Naeim, *Consulting Engineer*;  
Jack Moehle, *UC Berkeley*

### The Future of PBD and ATC 58

Ron Hamburger, *SGH*

### Local Jurisdiction Applications

Colin Kumabe, *LADBS*; Gary Ho, *SFDBI*;  
Steve Pfeiffer, *City of Seattle*

### Panel Discussion

## DATES AND LOCATIONS

Wednesday, October 29: San Francisco, CA

Thursday, November 6: Seattle, WA

Friday, November 7: Los Angeles, CA

## Who Should Attend

Structural and Geotechnical Engineers; Seismologists; Architects; Urban Planners; Developers; Building Officials; and Students. Attendees will receive 6.75 PDHs.

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 these structures. 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 on 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 a talk will present 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.

## Co-sponsors

ASCE Metropolitan Los Angeles Branch  
EERI Regional Chapters: Northern California, Southern California, and Washington  
Seattle ASCE  
SEAW-Seattle  
Structural Engineers Association of Southern California (SEAOSC)

Register online or download a registration form for the 2014 EERI Technical Seminar Series at <https://eeri.org/cohost/registration/tech-seminar-2014>

### FORELL/ELSESSER ENGINEERS

Are you looking to share your talents with a collaborative, fun group of engineers working in a dynamic downtown San Francisco office on some of the most challenging and exciting structural and seismic projects in California and around the world?

Do you want to be part of an exciting and thoughtful team in a work environment that actively encourages and supports individual professional growth through ongoing education, training, and mentoring?

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### KNA Consulting Engineers, Inc.

KNA Consulting Engineers has an immediate opening for engineers at all experience levels. Qualified applicants must have an ARCE or BSCE Degree (Structural) from an accredited University, proficiency in seismic design, working knowledge of Revit, excellent communication skills and be able to demonstrate good application of learned analytical skills. Previous engineering intern experience is a plus.

KNA is located in Irvine, CA and specializes in the structural design of educational, civic and healthcare facilities.

For additional information, please visit our website at [www.KNAconsulting.com](http://www.KNAconsulting.com).

Interested candidates are encouraged to contact us at [careers@KNAconsulting.com](mailto:careers@KNAconsulting.com). KNA offers competitive compensation along with a comprehensive benefit package.

### DESIMONE CONSULTING ENGINEERS

Want to take your career to the next level? DESIMONE, an international structural engineering firm with 5 domestic and 3 international offices, is looking for sharp, capable, energetic, and highly motivated engineers that want to design world-class buildings. We work with the world's best architects creating landmark buildings throughout the US and internationally. We currently have openings for engineers at all levels in our San Francisco, Las Vegas, Miami and New York offices.

The successful candidates will develop structural engineering designs for a wide variety of projects, including mid-to-high-rise buildings.

#### Qualifications:

- M.S. degree in Civil/Structural Engineering
- Over 3+ years of relevant experience
- Knowledge of local and national building codes & construction practices
- Proficiency in ETABS, RAM, RISA, and SAFE
- Ability to work in AutoCAD and Revit a plus
- Strong verbal & written communications skills
- Detail-oriented with strong people skills

Please visit our Careers page for more details:  
[www.de-simone.com](http://www.de-simone.com)

### SAIFUL BOUQUET STRUCTURAL ENGINEERS

Saiful/Bouquet is a 75+ employee, award winning, innovative structural engineering firm engaged in providing high quality integrated design solutions to national and international clients. (Visit our website for our full portfolio.)

#### Opportunities Available:

Multiple positions available for engineers w/ 0-15 years of experience at our Pasadena & Orange County offices.

- Strong written /verbal communication skills
- Self-motivated
- Ability to work on multiple projects simultaneously
- Detail oriented with strong people skills

Email resumes to [careers@SaifulBouquet.com](mailto:careers@SaifulBouquet.com) and visit our Careers page for more info. [www.SaifulBouquet.com](http://www.SaifulBouquet.com)

# CLASSIFIED ADVERTISEMENTS

## PRECISION STRUCTURAL ENGINEERING

Precision Structural Engineering provides top-quality structural design to owners, architects and contractors. We complete the structural designs on over 500 projects a year in over 20 states. As one of the few US-based structural engineering firms focusing on green design, we represent the pioneering spirit of trying something new.

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Position requires a Bachelor's Degree in Civil Engineering; hands-on experience with STAAD Pro software; proficiency with MS Office software; the ability to conduct professional field inspection activity and strong written and verbal communication skills. PE license is a plus.

send resumes to [office@structure1.com](mailto:office@structure1.com)

**FORELL / ELSESSER ENGINEERS** is looking for an enthusiastic team-member to join our growing San Francisco office as a **REVIT/CAD Modeler**.

The ideal candidate will have 1 to 3 years of experience as a drafter in the A/E/C industry or has a Certificate of Completion from an Autodesk Authorized Training Center. Architects and engineers who are seeking a change are also encouraged to apply.

You can find out more about our team and our projects at [www.forell.com](http://www.forell.com).

Forell/Elsesser offers a competitive salary and excellent benefits package including a 401 (k) plan and profit sharing. Interested candidates should forward their resumes and cover letter to [recruiting@forell.com](mailto:recruiting@forell.com).

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July 1, 2014 - June 30, 2015

*The SEAOSC Board of Directors works on the behalf of our membership. If there are general or specific items you would like to see the Board of Directors address or discuss please contact any of the SEAOSC Board members.*

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## SEAOSC Executive Director

Lynn Hanger  
seaosc@seaosc.org  
562-908-6131

Get involved! Members are invited to join a SEAOSC committee. Please contact the chairperson for information on current projects and meeting times, dates and locations.

# COMMITTEE LEADERS

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