



**SEAOSC Members Inducted to SEAOC College of Fellows**

**“The highest honor that SEAOC bestows on a member is entry into the prestigious College of Fellows.”**

The College of Fellows was established in 1994 by the Structural Engineers Association of California (SEAOC) Board of Directors to honor esteemed members who have provided distinguished service to the Association and made outstanding contributions in the field of structural engineering.

Each SEAOC Member Organization (SEAOSC, SEAONC, SEA OCC, SEA OSD) annually nominates prospective Fellows based on a set of criteria that includes demonstrated skill and achievement in structural engineering, contributions to the profession through publication or presentations, service to the Member Organizations or SEAOC, and service to the public through participation on boards and bodies relevant to structural engineering.

This year’s inductees from SEAOSC are **Tom Sabol, S.E.** and **Fred Schott, S.E.** Please see inside this issue excerpts from their individual introductory speeches delivered during the induction ceremony held at the SEAOC annual Convention in Indian Wells, CA in September.



*Mr. & Mrs. Fred Schott (left) with Doug Thompson (right), SEAOSC Past President and introducer*



*Mr. Tom Sabol (right) with Diana Nishi, SEAOSC Past Board Member and introducer*

**OCTOBER**

- 1** “Not Enough Money, Too Much Liability- How S.E.’s Get Fleeced & What You Can Do”  
Los Angeles Dinner Meeting  
Luminarias, Monterey Park
- 3** SEAOSC NEWS Content Submission Deadline for November Issue
- 8** Image & P.R. Committee Meeting  
GoToMeeting
- 14** Seismology Committee Meeting  
University of Southern CA
- 20** “Strengthening Our Cities- 2014 BAR Summit ”  
The Center at Cathedral Plaza, Los Angeles

**NOVEMBER**

- 3** 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
- 16** “Architecturally Exposed Structural Steel”  
TriCounty Dinner Meeting  
Sheraton Hotel, Ventura

**DECEMBER**

- 3** Annual Holiday Party  
To Be Announced
- 5** SEAOSC NEWS Content Submission Deadline for January 2015 Issue



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## PRESIDENT'S MESSAGE



By Kevin O'Connell, S.E.

**I certainly hope** everyone enjoyed themselves at the 2014 SEAOC Convention in Indian Wells. The convention was fantastic, both on the technical side and on the social side, what a blast! A big thank you goes out to the entire convention committee which worked hard for nearly two years to put it all together. There are too many people to thank individually, but a few do deserve an extra pat on the back. Tom Harris, Mike Cochran, Rawn Nelson, and Diane Thompson truly went above and beyond to make the convention a success. The next convention in Seattle, hosted by SEAOC, has a lot to live up to, but I know they will do great.

SEAOC also elected two SEAOSC members to the College of Fellows. Congratulations Tom Sabol and Fred Schott.

And did I mention the fantastic SEAOSC student members from Cal Poly San Luis Obispo whose outstanding red cup and cardboard box skills helped SEAOSC win the President's Cup again! Thank you Nicole O'Hearne, Georgine Mooney, Daniel Menno, and Kendall Johnson. Go South!

It has been a busy start to the year for SEAOSC. The annual golf tournament was a big success and more importantly a lot of fun. Our September dinner meeting had a big turnout, well over 100 people, thank you Gerard Nieblas. The Board of Directors is currently working with our committees to outline the committee charges for the year so that all of our members can benefit from their work. The 2014 BAR Summit – Strengthening Our Cities is right around the corner. Be sure to register at [barsummit.org](http://barsummit.org). And be sure to join us at our October dinner meeting to learn what structural engineers can do to increase compensation and reduce liability.

Everyone has read, seen, and experienced the effects of the American

Canyon (Napa) Earthquake. While many buildings performed well, and structural engineers are to thank for that, this earthquake should be a reminder to all of us that there are many vulnerable buildings that still need our help. The risk is real. The public needs to know about this risk, they need to know how their buildings will perform in an earthquake, and right now I do not think they do. New buildings are earthquake proof, right? My building did fine in the Northridge Earthquake, so I have nothing to worry about, right?

There is a golden opportunity in front of us. We can choose to embrace it, make a difference, improve the safety of our cities, and elevate our profession; or, we can turn our heads, run away, stay with the status quo, and continue to be further commoditized as a profession. Although it might not be perfect at the start, the US Resiliency Council and the building rating program they are developing will be a game changer for structural engineers and the community as a whole. It will get people talking about how well their buildings will perform in an earthquake. It will encourage a discussion that will result in structural evaluations. It will create opportunities for building owners to seismically strengthen their buildings, which improves the performance and safety of that building, but also help to improve the overall resiliency of the community. Isn't that the right thing to do? I am proud that SEAOC Board of Directors, along with the boards of all four member organizations, has voiced their support of the continued development of the USRC.

## There are great things to come, and this is only the beginning.

Respectfully,

Kevin O'Connell, S.E.  
SEAOSC President



*Kevin O'Connell proudly wears the coveted President's Cup perpetual trophy won by the SEAOSC team. Photo courtesy of Cal Poly San Luis Obispo ARCE.*

*These excerpts were written and presented for the SEAOC College of Fellows induction ceremony held at the SEAOC Convention in Indian Wells, CA in September.*

## **Fred H. Schott, S.E.** Member since 1969

Written by Doug Thompson

SEAOSC's newest Fellow, Fred Schott, graduated from Berkeley with a BS in 1958 and an MS in 1962 and He worked in the Bay area until 1965, and then moved to San Luis Obispo where he taught full time at Cal Poly from 1965-1967 and then opened his own office in 1967 while still teaching part time until 1970 and has completed several thousand projects since then. SEAOC Fellow Rawn Nelson was a student of Fred's, Fred you must have done something right.

At the same time he opened his own office and part time teaching he joined SEAOSC and has been active in the association since then where in 2007 and 2008 he was president of the association.

He is a SEAOSC Past President, a life member of ASCE and ICC, is a former President of NSPE, and active in, CLSA, EERI and is presently on the State Existing Buildings Committee.

A couple of notable projects he has his name on include the Santa Maria Public Airport Terminal with precast, post-tensioned frames and SLC8, an 80 foot tall rolling scaffold at Vandenberg AFB.

One of his major present interests relates to utilizing viscous damper panels to minimize the effects of ground motion on structures using time history analysis techniques.

Now the side I have come to know him by.

Whether it was a monthly dinner meeting, practical design and detailing seminar or all day seminar Fred was there. And for Fred that means making the more than 200 mile drive from San Luis Obispo. I myself have thought twice about making drives to events that might take more than an hour each way. When Fred is not presenting at an educational event, he is always sitting up front and asking the most questions. I know there are many of you out there that know what I am talking about. Fred, you are a poster dad for passion in our field. At one time when SEAOSC started tracking and recording PDH hours for education events, Fred always had the most accumulated hours each year.

It is my sincere pleasure and honor to introduce to you SEAOSC's latest inductee into the College of Fellows, and please help me in welcoming Fred Schott!

## **Thomas A. Sabol, S.E.** Member since 1985

Written by Diana Nishi

It is my great pleasure to be able to introduce my colleague of 26 years, Thomas Sabol. As you may expect, he has a very long resume of honors, titles and degrees so I will hit the main highlights.

I think his passion for engineering and academic life started during undergrad and has never stopped! Tom received a double bachelor's degree from California Polytechnic University, San Luis Obispo, in both Architectural Engineering and Architecture (in 4 years) and then went on to get his MS and Ph.D. in Structural and Earthquake Engineering from UCLA.

Tom Sabol is a principal at Englekirk Engineers at our Los Angeles office and specializes in structural and earthquake engineering, historical structure rehabilitation and wind engineering along with the office's one and only licensed architect (a fact he rarely seems to share with many engineers or other architects).

We have worked together on many exciting and challenging landmark structures throughout Los Angeles, San Diego and San Jose from the J. Paul Getty Center, UCLA and CSU university structures, civic centers, Federal Court Houses and historical retrofits structures. I often ask Tom if he can just give me one "easy simple" structure as every project that seems to come in (even the parking structures) are heavily engineering challenging with extremely creative architects. They all know Tom will somehow figure out how to make it all work and I just need make sure that I do not prove him wrong!

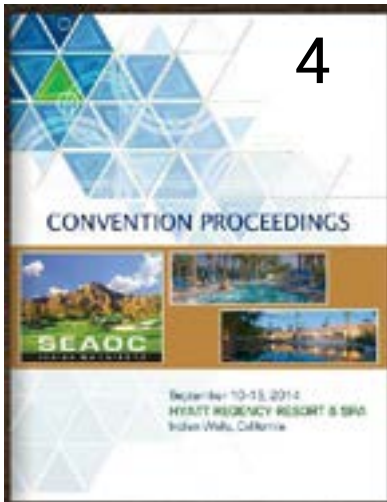
Tom serves on a number of research and standards-development groups such as AISC Seismic Provisions and Specification committees where he travels around the country educating us all the recent steel code changes and current engineering design practices. He was actively involved in the FEMA-sponsored SAC projects and the NSF-sponsored Seismic Repair and Rehabilitation Project. He is past president and current board member of the LA Tall Bldgs Council and a member of the CSU Seismic Review Board.

And finally, Tom tries ignite the art and science passion of our structural engineering profession as an Adjunct Professor in the Civil and Environmental Engineering Department at UCLA where he may have taught some of you graduate and undergraduate courses focusing on earthquake engineering, tall building and structural steel design. So, as you can see, Tom is a well deserving recipient of the SEAOC Fellows award for all extraordinary accomplishments and continued dedication to our structural engineering profession.

# SEAOSC Wins the President's Cup!



1. The SEAOSC team took an early lead in assembling the components of the challenge. 2. Kevin O'Connell proudly displays the coveted Cup trophy with student members from Cal Poly San Luis Obispo Nicole O'Hearne, Georgine Mooney, Daniel Menno, and Kendall Johnson 3. The President's Cup challenge was to build a cardboard box tower balancing on an innertube. 4. Convention Proceedings are now available at [pubs.seaoc.org/3Dissue/2014seaocproceedings/index.html](http://pubs.seaoc.org/3Dissue/2014seaocproceedings/index.html) 5. Ryan Kersting (left) & Michael Cochran (right), incoming & outgoing SEAOC Presidents. Photo courtesy of Don Shinske.





# STRUCTURAL ENGINEERS ASSOCIATION OF CALIFORNIA

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**PRESS  
RELEASE**

FOR IMMEDIATE RELEASE  
Aug. 26, 2014

Contact: Don Schinske  
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## **How Structural Engineers can help Communities and Building Owners Survive Earthquakes**

*Structural Engineers Association of California Responds to American Canyon Earthquake*

By Michael Cochran, SEAOC Board President, Reinhard Ludke, and Ken O'Dell

As the Napa region works to recover from the strongest California earthquake in 20-plus years, the rest of the State should be on notice that Sunday's 6.0M American Canyon earthquake did not let us off the hook. Instead, this and every other recent earthquake should be taken as a wakeup call for residents and business owners in California and other seismically active regions of the US. Now is the time to act with forethought and common sense, and not just wait for the next ground shaking to knock us out of bed at 3:20 in the morning.

Almost immediately following Sunday's temblor, Structural Engineers – all of them members of the Structural Engineers Association of California – took action in response to calls from clients and City Officials. A number of national and regional businesses throughout the region activated robust disaster preparedness plans and enlisted engineering experts to conduct post-event damage assessments.

In addition, the Governor's State of Emergency Declaration activated the state's Safety Assessment Program (SAP). Volunteer members of SEAOC and its Disaster Emergency Services Committee, alongside others with structural expertise and SAP certification, were assigned support roles to Napa's Chief Building Official, adding capacity to the city's inspection staff. These inspection teams are now seen throughout the City and region conducting rapid and detailed building safety assessments, leading to the "tagging" of buildings defining their post-event status: RED-Unsafe, Do not Enter or Occupy; YELLOW-Restricted Use, GREEN-Inspected, Lawful Occupancy Permitted.

Many of the codes that help reduce building hazards, limit injuries, and avoid loss of life, as well as the SAP and other resources deployed in the aftermath of disasters, have been developed and nurtured with the support of structural engineers. SEAOC members serve in many active committees dedicated to protecting the public welfare by designing safe buildings and structures. These committees, such as the Existing Buildings, Seismology, and Structural Standards

PROTECTING THE PUBLIC WITH SAFER STRUCTURES

Committees, are on the forefront of developing codes, technical guidelines and most importantly, effective mitigation solutions for building owners (large and small, business and residential) to reduce their earthquake hazard risks. While damage does occur, the American Canyon Earthquake and other recent events highlight the fact that these solutions can be and are effective. Indeed, they save lives.

### **Why does this matter now?**

Despite the lengthening damage reports from Napa and the prospect of hundreds of millions of dollars in economic losses, we know that the magnitude 6.0 earthquake is small compared to what can and will happen. The U.S. Geological Survey's (USGS) Working Group on California Earthquake Probabilities estimated in 2007 that there is a 63% probability of at least one magnitude 6.7 or greater quake, capable of causing widespread damage, striking the San Francisco Bay region before 2030. There is a 67% probability of a similarly sized earthquake striking the Southern California region within the same period (<http://www.scec.org/ucerf2/>). Because earthquake magnitude is reported on a logarithmic scale, a magnitude 6.7 quake could be as much as seven times larger than Sunday's American Canyon event. There is no question of "if," only "when." And the odds are not in the favor of an unprepared owner or community.

In the aftermath of any earthquake, Structural Engineers are uniquely qualified to bring the necessary solutions to bear for damaged buildings and their repair needs. More importantly, the Structural Engineering community is the best resource available to building owners in assessing possible building performance and potential losses ahead of time, so that informed risk-management decisions can be made.

Structural Engineers are the primary design professionals that will now lead the repair and recovery effort in Napa, Vallejo and nearby communities. Beyond that, California's 3,500 Structural Engineers stand ready to prepare all of our communities for the next event. Solutions exist today, and others can be developed to meet specific building needs, that building owners can implement now to control costs and outcomes instead of letting earthquakes dictate their fate.

Along with building owners, building officials and governing agencies, the Structural Engineers Association of California pursues the shared goal of having every inspected building receive a "Green Tag" the first time an inspector is on site.

*Founded in 1932, the Structural Engineers Association of California (SEAOC) seeks to advance the state-of-the-art and the state-of-the-practice of structural engineering to provide the public with structures of safe and dependable performance. Membership consists of four regional associations, the Structural Engineers Associations of Southern California, Northern California, San Diego and Central California.*

#

## *In Memoriam*

### **Ben L. Schmid**



SEAOSC Member Since 1956  
Honorary Member  
SEAOC Fellow

*"When the building code provisions catch up with Ben's criteria, we will all be better off."*

January 12, 1923 - August 23, 2014

On Saturday, August 23rd, Ben Schmid made a sudden, but gentle and gracious exit to a life extraordinarily well-lived.

Born in Riverside, raised in Hollywood and a 30-year resident of San Marino before moving to Balboa Island in 1985, Ben was a respected Consulting Structural Engineer, loving husband for 67 years to his childhood sweetheart and Hollywood High School classmate, Jeanne Howlett Schmid, perfect father to his children Nancy (Rob) Hunt, Peggy Schmid, John (Heather) Schmid, proud grandfather to Rob Hunt III, David Tyler Hunt, Lindsey (Mike) Hunt Marmolejo, Hayley (Duncan) Hunt Hedges, Linden Schmid and Rylen Schmid, dear friend to many and dedicated community leader. Following his WWII service with honor as a C-47 pilot in the Army/Air Corps, he proudly earned his B.S. and M.S. Degrees in Civil and Structural Engineering from Stanford University, where he was a member of Alpha Sigma Phi fraternity.

Following graduation, he worked as the Alhambra City Engineer, then at CF Braun where he designed the company's underground structure, which was built without disrupting the above ground office productivity. He opened his private practice in San Marino in 1957, and quickly moved his office to the Stivers Building in Pasadena where he had pioneered the first concrete tilt-up building.

He was a licensed Consulting Structural Engineer for 62 years and still active at the time of his passing. Throughout his career, Ben raised the bar on his profession and was known for his landmark accomplishments, forward thinking and passion for structural integrity of single and multi-family residences, schools, churches and commercial, industrial and institutional facilities.

He was an expert witness, a published author and Co-Author/Co-Principal in developing Los Angeles URM (unreinforced masonry), cripple wall and soft story ordinances, which were all adopted into the International Existing Building Code.

**Recognized as a Founding Member of the Fellows, the highest honorary designation by the Structural Engineers**

**Association of California, he served as President of the Structural Engineers Association of Southern California, and on the Seismology and Existing Building Code Committees.**

He was a member of the ASCE, ACI, ICC-ES and the Seismological Society of America. As a FEMA damage advisor (California State Registered Disaster Worker) for every earthquake since 1951, he was particularly disturbed by the residential devastation following the 1994 Northridge Earthquake and took it upon himself to research, test and create a system for improving single and multi-family residential construction to ensure the property remains habitable following a significant earthquake. To that end, he had five patents issued when he was 80 years old. A colleague observed, "When the building code provisions catch up with Ben's criteria, we will all be better off."

An active volunteer in his beloved community of San Marino, he enjoyed bringing his expertise to the San Marino Planning Commission, Rose Bowl strengthening and expansion projects, municipal and school facilities, including Titan Stadium, and was recognized with every available award, including some created just for him. He enjoyed lifelong friendships as a Founding Member of the San Marino Schools Foundation, President of San Marino City Club, member of Rotary, San Gabriel Country Club, Newport Beach Country Club and Orange County Seniors, traveling globally to experience many of the world's greatest golf courses. Ben was a vibrant, kind and generous man who loved his family, friends, laughter and life. He was an inspiration to all who were blessed to know him.

A celebration of his life is planned for 11 am on Friday, September 12 at San Marino Community Church, with a reception to follow at San Gabriel Country Club. Donations in his memory may be made to the Stanford University Women's Soccer Program, Rotary Club of San Marino, Titan Stadium Maintenance Fund or the charity of your choice.

**The family asks that in his memory, you hug one another, enjoy each moment to the max, and remember always to laugh!**

*Published in the Los Angeles Times and Orange County Register from Sept. 4 to Sept. 7, 2014*

## *In Memoriam*

### **Mamoru (Mo) Emery Kanda**

SEAOSC Member since 1955  
Honorary Member since 1997  
SEAOC Fellow

Mamoru (Mo) Kanda passed away peacefully on Sunday August 17, 2014. Born on July 25, 1924, Mo was interned at the Amache Relocation Camp early in WWII, served honorably in the US Army MIS during the remainder of war and went on to become a successful Structural Engineer for over 60 years.

He is survived by his wife Susan of 59 years, son James, and daughters Lynn and Lori. He also leaves behind his grandchildren, Brett, Cameron, Tomo, Paige (predeceased), Mariko, Paiton, Emery and Montgomery.

A private family service was held at Senshin Buddhist Temple on Saturday August 23, 2014. Donations in memory of "Mamoru E. Kanda" can be made to:

Go For Broke National Education Center [www.goforbroke.org](http://www.goforbroke.org)  
USC Viterbi School of Engineering  
David M. Wilson Affiliates Fund. [www.giveto.usc.edu](http://www.giveto.usc.edu)

May he always be surrounded by light.

**Published in the Los Angeles Times on Aug. 28, 2014**

### **The 2014 SEAOC Member Directory is Now Available!**

A handy compilation of all current members of the Structural Engineers Association of California regional associations (SEAONC, SEAOC, SEAOSC, and SEAOSD) is available to members each year.

#### **Read Online:**

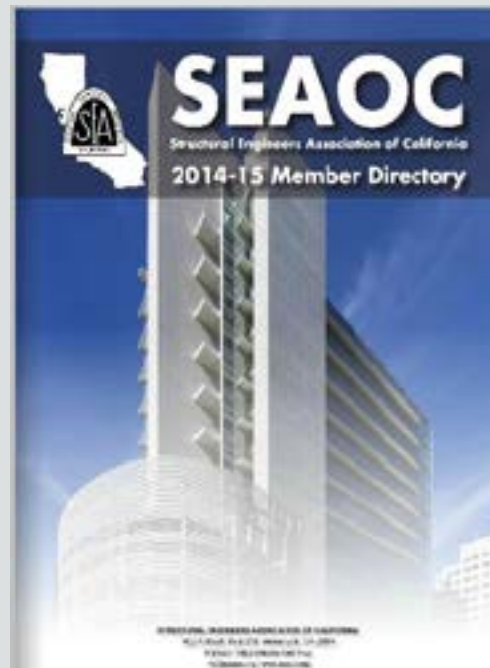
Log-in to your SEAOC member account at [www.seaoc.org](http://www.seaoc.org).

Once logged in, navigate to Membership > Member Directory. Look for the links to view and search the directory online or download a .pdf version.

#### **Request a Print Copy:**

As benefit of SEAOSC membership, you are entitled to a printed copy free of charge! Follow the links to add the print version to your online shopping cart. Please allow 30 days for delivery.

**Questions?** If you have trouble logging-in or accessing the directory, please contact [info@seaoc.org](mailto:info@seaoc.org).







# SEAOSC Annual Golf Tournament Friendly Hills Country Club Whittier, CA Monday, August 25, 2014



Above: Jake Rudolph (right) from Structural Focus won the television set in the raffle. Rawn Nelson (left) was the Master of Ceremonies. Right: Dave Brieholz (left) auctioned his famous license plates to the highest bidder, Jeff Crosier (right), who donated the winning bid of \$200 to the SEAOSC Foundation to benefit student scholarships.



## Contest & Team Winners

Accurate Drive: Roberto Ortiz  
Men's Long Drive: Mark McCauley  
Women's Long Drive: Jen Hiatt  
Closest to the Pin #8: Dave Brieholz  
Closest to the Pin #13: Pancho Koneval

## Most Honorable Team:

Brett Hart, John Woodall, Matt Mester,  
John Reitmeier

## 2nd Place Team:

Will Hanna, Bryan Vanderzee, Kevin Askey,  
Grant Donaldson

## 1st Place Team:

Jeff Crosier (no surprise), Michael Wolfe,  
Lou Valenzuela, Andy Kjelberg

*Thank You Golf Tournament Committee For A Successful Event!*

## WELCOME NEW MEMBERS

### Member S.E.

**Yoko Tanaka**

Brandow & Johnston  
ytanaka@bjsce.com

**Dr. Henry Burton, Jr.**

UCLA Dept. of Engineering  
hvburton@seas.ucla.edu

### Industry

**Andrew Smyth**

LPI, Inc.  
asmith@lpiny.com

### Member

**Farzin Zareian**

UCI Engineering  
zareian@uci.edu

### Associate Level 2

**Tom (Butian) Liu**

HAS & Associates  
tom@hsaassociates.com

### Associate Level 1

**Sinhui Chang**

HAS & Associates  
sinhui@hsaassociates.com

## WHEN CONNECTED ISN'T CONNECTING

Career advice from Ann Ranson, career coach, trainer, and president of Bottom Line 3 Marketing

**In today's world, it's easy to default to Facebook and texting. How do you ensure that you are really connecting with people?**

Everything starts with your intention. When you make the decision to limit electronics in favor of human interaction, you are giving yourself a powerful gift. Recent research by Morgan Stanley shows that 90 percent of those surveyed keep their mobile phones within three feet of them at all times.

Step one is to put your phone away from you. Turn it off, unless you are contractually on call. After hours, check in once per hour, if you

must. When you put your phone in a separate room, you send a signal to your family and friends that you appreciate and respect them. This simple act will improve your relationships and your personal well-being.

**Why is maintaining in-person connections so important?**

Humans are hard-wired for social connection. In fact, it's so vital that a lack of social connection is found to be as good a predictor of a shorter life-span as obesity, high blood pressure, and smoking. Research and statistics prove that people who have strong social connections are happier and live longer.

**How can maintaining deeper connections benefit your career and organization?**

A 2012 meta-analysis by Gallup of 263 research studies across 192 companies found that companies in the top quartile for engaged employees, compared with the bottom quartile, had 22 percent higher profitability and 10 percent higher customer rating.

Managers and employees alike need to understand these facts. Urge your employees to implement practices that foster connection. All of your bottom lines (people, planet, and profit) will improve.

## CAREER COACH



Ann Ranson is the president of Bottom Line 3 Marketing, a socially conscious enterprise named for the business principle, triple bottom line (TBL), which states that every organization has three bottom lines, people, planet and profit.  
[www.annranson.com](http://www.annranson.com)



## GoToMeeting Announces NEW Mobile App for iPhone, iPad & Android



### *Attend SEAOSC's Committee GoToMeetings Away from Your Desk!*

The GoToMeeting apps make online meetings more accessible than ever. Anywhere you take your iPad or iPhone, you can now attend GoToMeeting sessions – at a café, in a hotel, wherever you happen to be.

#### With a free GoToMeeting app, you can:

- Attend GoToMeeting and GoToWebinar sessions from anywhere.
- Join meetings in seconds by tapping a link in an email.
- View presentations, mockups and reports – whatever the presenter shares on-screen.
- Collaborate in HDFaces high-definition video on iPad.
- Connect to audio through your device's built-in mic & speakers or dial in over the phone.
- Pinch to zoom meeting content.
- Switch between portrait and landscape.



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**  
**Side Plate Systems, Inc.**

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.



**STRENGTHENING  
OUR CITIES** 2014  
BAR SUMMIT

# 10.20.14

Center at Cathedral Plaza  
555 West Temple Street, Los Angeles, CA. 90012  
Adjacent to Civic Center Metro Station | Free Parking

When the ground starts moving, where will you be?  
What could happen to the buildings around you?  
What can you do?

Learn about Strengthening Our Cities  
at the 2014 Buildings at Risk Summit

## HIGHLIGHTS

- > A first look at details of the proposed Los Angeles building rating system
- > Tools to identify and address hazardous buildings
- > Understand the owner and building manager perspective
- > Opportunities to mitigate potentially hazardous buildings

**REGISTER  
TODAY**  
BARSUMMIT.ORG

Emergency managers, first responders, urban planners, contractors, architects, engineers! This summit is for you. Learn how we all can take action to protect our communities.

Early bird registration also available.

Check with your professional organizations. Participating organizations are offering discounts to their members!

presented by



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Platinum Sponsor

**SIMPSON**

**Strong-Tie**



# 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 Yousef & 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  
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July 1, 2014 - June 30, 2015

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## SEAOSC Executive Director

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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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