



Structural Engineers Association
of Southern California

SEAOSC NEWS

NOVEMBER 2017

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Join Us for the November LA Dinner Meeting

PRESENTATION:

Panel Discussion: Effective Leadership and Management for All Engineers

The November dinner meeting will feature a panel of distinguished engineers speaking on effective leadership and management within the engineering industry. Our panelists come from all different backgrounds and provide a leadership perspective from various levels of experience. Panelists will discuss their personal knowledge of leadership techniques that are most effective, and what strategies to avoid. Lessons learned from the panelists' time in a management role will provide valuable insight into how management has changed over recent years, and how to promote effective leadership at all experience levels within your firm. Engineers at any stage of their career will find something new and educational to take with them into their own company, as well as their career.

PRESENTERS:

Moderator:

David Cocke, President, Structural Focus

Panelists:

Garrett Mills, Principal/COO, Taylor & Syfan

Patti Harburg-Petrich, Associate Principal, BuroHappold

Richard Chen, Principal, Miyamoto International

Edward Arrington, Senior Civil Engineer, LA City

Wednesday, November 1, 2017
Networking | Dinner |
Presentation

Doubletree by Hilton
Los Angeles Downtown
120 S. Los Angeles Street
Los Angeles CA 90012

[Register Here](#)

Have you Renewed your Membership?

Review our membership flier (www.seaosc.org/Membership-Application) and renew online. Click Here to renew now. Note that we have an engineer Referral Listing (\$100, www.seaosc.org/Find-an-Engineer), used by the public, and Professional Development Program (\$50) to track continuing education as optional services for members. We look forward to your insight, passion and participation and the magnified IMPACT we'll have together!

SEAOSC
437 S. CATARACT AVE
SUITE #4B
SAN DIMAS, CA 91773

(562) 908-6131
SEAOSC@SEAOSC.ORG
WWW.SEAOSC.ORG



Robert "Bob" Lyons
President 2017-2018

SEAOSC 2017-2018 Board

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 Truong Huynh, PE

President's Message

Greetings! On October 10, 2017 the **SEAOSC Safer Cities Recon Team** departed Los Angeles for Mexico City and began a five day survey and information gathering investigation of post-earthquake conditions. The committee posted daily, real-time reports while in Mexico and just posted a summary report on the [Safer Cities Recon website blog](#). The summary presents initial observations on damage to known vulnerable buildings as well as previously retrofit buildings, and observations on Community Resilience. The first reporting of the Recon Team will be at the November 7 and 8, 2017 seventh annual **Strengthening our Cities Summit, The Value of Resilient Buildings**, in Los Angeles. Attendees will be able to talk to the Recon Team members and view VR visuals at the Recon Booth.

Safer Cities Advisory Program - The City of Santa Monica is presenting, in a community meeting, information to tenants and building owners about the new soft story ordinance on November 13, 2017. To provide non-technical information to the community, they asked the members of the Existing Buildings Committee, through the [Safer Cities Advisory Program](#), to attend. The SEAOSC Safer City Advisory Program was established to assist local jurisdictions propose and adopt seismic retrofit ordinances. The Program has now provided guidance to several jurisdictions adopting seismic retrofit ordinances, starting with the City of Los Angeles. Learn more about the program at the Safer Cities webpage. We are posting Links to articles of interest to Structural Engineers on the **new SEAOSC Safer Cities Webpage** [Natural Hazard News](#). We encourage you to visit this webpage periodically to stay current on topics that engineers need to know.

In this Newsletter

In this Newsletter, we highlight the dedication of two active committee members in this newsletter. Cairo Briceno, PE SE has been a member since 1994 and is currently Seismology Committee Vice-Chair. Also, Gabriel Acero PE, SE has been a member since 2005 and is and member if the Codes and Standards Committee. We thank Cairo and Gabriel, and the roughly 200 people that are on our committees. **Together our efforts make an Impact!**

Also in this newsletter, is an article highlighting recent **City of Los Angeles Amendments** to the building code submitted by the SEAOSC Codes and Standards Committee, Chaired by Colin Kumabe, SE and Michael Ciortea, SE. The **Seismology Committee**, Chaired by Josh Gebelien, SE submitted an article on committee news and updates.

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Truong Huynh, PE

President's Message

October Events

The **October 4 LA Dinner meeting** was enjoyed by everyone at this well attended event. SEAOSC member Hoorman Nastarin, PE of Nast Enterprises presented his insights gained from design of the **Pterodactyl Building** in Culver City. This structure has especially complex and precise geometry, which entailed special design and detailing consideration. In addition, Neville Pereira, PE, Lead Structure Specialist Captain Mike Kammerer of LA City Fire Department and FEMA Training Officer for **California Task Force I Urban Search and Rescue** team provided a presentation on the Task Force's role as first responder. They seek dedicated structural engineers to serve on their team. If you might be interested, refer to the SEAOSC eblast on October 9, 2017 for more information.

Kevin Moore, SE of SGH, gave a presentation on design of steel special moment resisting frames at the **Tri-Counties dinner meeting** on October 17, 2017. This is the first of two Tri-County dinner meetings planned for the 2017-2018. Thank you Mid State Precast and MiTek Builder Products for sponsoring this event.

Kris Spickler, PE of Structurlam presented on the tallest wood building in the world built on the University of British Columbia during the **Orange County dinner meeting**. Thank you Woodworks, Hilti and GEI for sponsoring this event. This is the first of two Orange County dinner meetings planned for the 2017-2018.

The Southern California Earthquake Center presented a **Webinar on October 26, 2017** on a Ground Motion Tool that will be a web-based tool that may be used with possible Amendments to ASCE 7-16. Presenter was C.B. Crouse, PhD.

Younger Members enjoyed a special **AISC Steel Day exclusive for SEAOSC** members on October 27, 2017. They toured Paramount Roll & Forming, a steel bender/roller facilities, Plas-Tal, steel fabricator and erector facilities and relaxed with Happy Hour at the end of the Day. Thank you Russell McClellan and AISC for making this happen!

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Todd Brown, SE

Truong Huynh, PE

President's Message

Upcoming Events

November 1, 2017 LA Dinner Meeting

A panel discussion on **Effective Leadership and Management for all Engineers** will accompany the **November Dinner meeting** in Los Angeles. Regardless if your professional level, first year or 40th year, you will learn and appreciate the messages these experienced engineers on the panel have for us. David Cocke, SE will moderate a panel of varying positions and background - Garrett Mills, Principal and COO with Taylor & Syfan, Pati Harburgh-Petroch, Associate Principal with Buro-Happold Engineering, Richard Chen, Principal with Miyamoto International and Edward Arrington, Senior Civil Engineer, LA City. Hope to see you there.

November 7 and 8, 2017 Strengthening our Cities Summit, *The Value of Resilient Buildings*

Please join us on November 7 and 8, 2017 at the seventh annual **Strengthening our Cities Summit, *The Value of Resilient Buildings***, in Los Angeles. Our Summit Committee, led by David Williams and Saeed Fathali, prepared a great program around the topic of the value of resilient buildings. Presentations have information that both engineers and non-engineer building stakeholders and policy makers need to know about resiliency.

Day I November 7, 2017 Program

- Chris Poland - Keynote Speaker: *Resilient Structures and Resilient Communities*
- Saeed Fathali, Garret Hagen - *Non Ductile Concrete - Municipal Ordinances and Beyond*
- Abbie Liel - *Beyond Resilience – Understanding Building Value and Cost Through Life Cycle Analysis*
- Thomas Sabol - *Cost-Benefit Analysis - How Structural Decisions Affect Building Cost*
- Saeed Fathali (Moderator), Debra Gerod, Dani Paxson, Jim Muenzer - *Team Building and Communication – How to get the most out of your design team (Partner with AIA)*
- Annie Kao, Josh Gebelein, Daniel Zepeda, - *SEAOSC's Vision for Resilience and Report of Mexico City EQ Reconnaissance*
- Jack Baker, David Bonowitz - *Value in Resilience: Earthquake Risk and Building Cost*
- David Mar, Scott Adan - *Quantifying Risk: PML Studies and Beyond*
- Mehran Pourzanjani (moderator), Evan Reis, Charles Hobey - *Do Buildings Need Grades? – The role of a building rating system*
- Michael Cochran, (Moderator), Daniel Zepeda, Kevin O'Connell, Yolanda Bundy - *Engineers and Policy*

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President's Message

Day 2 November 8, 2017 Program

- Rob Smith, Jason Krolicki - "Who the heck wants resilient buildings anyways?"
- Annie Kao - SEAOSC's Vision for Resilience - Safer Cities Initiative
- Annie Kao (Moderator), Jason Perry, Henry Burton, Michael Cusumano - How Better Design Can Save You Money.
- Ken O'Dell (Moderator), Bill Graf, Denis Dyson, Anthony Calderone - PML Studies – What can you learn from a PML Study
- Jeff Ellis (Moderator), Marisso Aho, Dominique Hargreaves, Matt Bernard - The Future of Resilience in Los Angeles
- Evan Reis - Building Ratings Role in Improving Community Resilience
- Ross Stein - Chiapas, Puebla, and Los Angeles
- Daniel Zepeda - Safer Cities Reconnaissance for Mexico City Earthquake
- Josh Smith, Elena Miller - Financing Building Improvements
- David Williams (Moderator), Katelyn Finn, Michael Braund, Pilar Mendez - Teamwork Towards Better Buildings - Collaborative Project Delivery as an Owner's Choice

We thank our many sponsors for making this event possible. Please visit the [Summit webpage](#) to learn more about our sponsors, for more program details and a link to register.

November 28, 2017 Tall Buildings Initiative, in-person

PEER is partnering with the SEAOC Foundation and the Structural Engineers Association of Washington to co-host this seminar introducing the PEER-managed Tall Buildings Initiative project [TBI Guidelines for Performance-Based Seismic Design of Tall Buildings, Version 2.](#) These guidelines present a recommended alternative to the prescriptive procedures for seismic design of buildings contained in the ASCE 7 standard and the International Building Code (IBC).

We have very active committees covering a wide variety of technical and non-technical issues. We encourage members to join committees and be a part of the process working to benefit our profession through education events, development of standards and guidelines and raise community awareness of the role and importance of Structural Engineers to our communities. Learn more about our committees on the SEAOSC [Committee Webpage](#).

Together, our efforts make an impact! Join our committees and be a part of the effort.



Bob Lyons, SE
President

Member Spotlight



Cairo Briceno, PE, SE
Senior Supervising Structural Engineer, Parsons



Gabriel Acero, MS, PE, SE.
Senior Associate Structural Engineer, AECOM

Email: cairo.briceno@parsons.com

Member Since: 1994

Current SEAOSC Role: Seismology Committee Vice-Chair

Favorite Movie: Recent: Start Trek The Undiscovered

Country

Proudest Accomplishment: I am always proud after a project is constructed and commissioned.

Childhood Ambition: Become an engineer like Scotty.

First Job: Structural Designer at Rutherford and Chekene

Why Join SEAOSC: Since I Join SEAOC in 1994, I like to network with my fellow engineers to exchange experience and ideas. I like the collaborative environment created by the associate members in California. Learn from the best engineers and reflect these excellence in the daily firm operations. The association has created a nurturing environment for young engineers to become the leaders of tomorrow. In this environment, I have learn technical skills, professional ethics and business economics.

Email: Gabriel.Acero@aecom.com

Member Since: 2005

Current SEAOSC Role: Member of Codes and Standards Committee; also recently a contributing author to SEAOSC's Design Guide No. 1 regarding Earthquake Hazard Reduction in Existing Non-Ductile Concrete Buildings.

Favorite Movie: A Beautiful Mind

Proudest Accomplishment: Contribute to our community as a Structural Engineer. Thanks to my background as a Colombian and a California structural engineer and the opportunity to practice initially in Colombia and thereafter in California, I have been able to participate in projects in different geographies around the world. Such exposure has allowed me to understand the influence of engineering practice, construction technologies and standards in several countries and cities and have given me the opportunity to work for improved standards in the exercise of structural engineering.

Childhood Ambition: To become an Architect

First Job: Engineering assistant for the testing program of rail roads at deep soft clays/high seismic locations in Bogota, Colombia.

Why Join SEAOSC: I joined SEAOSC because SEAOSC is one of the most influential organizations in the world that collects the talent of our professionals, strives for the best practices in our profession and contributes to maintain the reputation of our engineering community, locally and internationally. As part of SEAOSC I have been able to witness and to participate in the evolution of the engineering science. I am proud to be part of an organization that makes continuous efforts to provide the engineers with better methods to achieve the intended results and to provide thorough answers on technical matters to the engineering community, the public and policy makers.

Welcome New Members

Member SE

- ◇ Maggie Carlson, DCI Engineers
- ◇ Tan Duy (Kevin) Hoang, ICC-ES

Member

- ◇ Lauren Biscombe, Arup
- ◇ Raul Jimenez, Brandow Johnston Inc

Young Associate

- ◇ Jayesh Gautam, Saiful Bouquet
- ◇ Jivan Pachpande, Saiful Bouquet
- ◇ Matthew Godinez, California Code Check
- ◇ Saif Jassam, Thornton Tomasetti
- ◇ Shima Ebrahimi, Saiful Bouquet
- ◇ Venkata Dantuluri, Saiful Bouquet

Industry Member

- ◇ Curt Nierman, Weyerhaeuser/ Trus Joist
- ◇ David Hosseini, LA Retrofit

SEAOSC

is a member-centric organization, where substance and image are equally promoted .



Member Referral Program

SEAOSC Members can opt-in to the Referral Program for \$100 annually during dues renewals, July 1- August 31. You may opt-in anytime by contacting the SEAOSC office at seaosc@seaosc.org. A listing will appear on seaosc.org/Member-Services-Search which includes your name, license number, business address with corresponding Google map, and your selected categories.

Professional Development Program

While California not does have mandatory continuing education for your license renewal, SEAOSC created this voluntary program to recognize and record members' seminar attendance. You can enroll for \$50 annually during dues renewals (July -Sept). Credit is issued for your attendance at qualifying dinner meetings, seminars and educational events based on 1 credit for each contact hour of continuing education. [Click Here](#) to learn more.

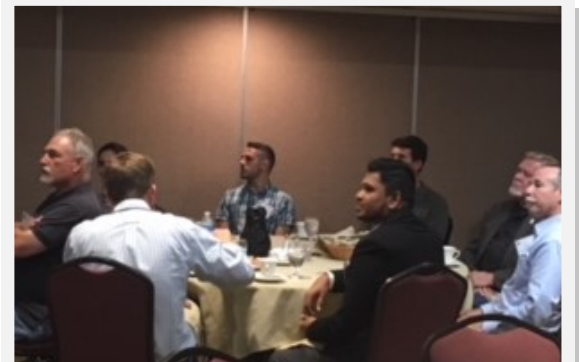
SEAOSC News | October LA Dinner Event

The October dinner meeting featured an in depth look at the engineering of an architecturally remarkable building – the Pterodactyl, located in Culver City. Hooman Nastarin of Nast Enterprises Corp. discussed the unique challenges he faced in designing this steel structure, and the creative solutions needed to make this vision a reality. An emphasis on open-mindedness and thoughtful engineering were the foundation of the many lessons attendees took away from learning about this AISC IDEAS2 award winning building. Also featured at this dinner meeting was a brief look into the brave work performed by engineers who are part of the Los Angeles-based Urban Search and Rescue Task Force.



SEAOSC News | Tri-Counties Event

Kevin Moore, S.E., Senior Principal and Structural Division Head of Simpson Gumpertz & Heger Inc. in San Francisco, provided a very informative lecture on design of steel special moment frame that was featured in the Volume 4, SEAOC Seismic Design Manual. Mr. Moore provided brief background around some of the most important related design provisions in ASCE 7-10, AISC 341-10 and AISC 358-10. He also highlighted some of design challenges of using SMF in light-framed structures. His lecture was very well received by the practicing structural engineer who attended the session.



SEAOSC News | Mexico City Reconnaissance

28 years of Experience, 18 hours of Engineering, and a Good Night's Sleep **Personal Reflections on Reconnaissance in Mexico City**

By: Kenneth O'Dell, S.E.

This article reflects the opinions, positions, and commentary of the author and do not represent a consensus viewpoint of the Structural Engineers Association of Southern California.

While 28 years of practicing the art and science of Structural Engineering is not that significant, when compared to the statesmen and women of our Association, it has begun to afford me the opportunity to share my “grey hair” with others. Insight into the profession of Structural Engineering comes in many ways to those who choose to keep an open mind, and from that insight, wisdom is hopefully gained. On a recent trip to Mexico City, as part of SEAOSC’s Safer Cities Reconnaissance Team (<https://seaosc.org/Safer-Cities-Recon>), I had the opportunity to solidify a thought that has been stirring around in my brain for several years now.

That is... **Structural Engineering is not about the Structure.**

For many of you, this may not be exceptionally new thought, and you may be scratching your head with a perplexed look, thinking; well duh, where has this guy been for the last 28 years? For others, this may be a puzzling consideration, leaving you equally scratching your head, asking, if this guy hasn’t been focused on the structure, what has he been engineering for the last 28 years? Don’t get me wrong, as with most engineers, I began my engineering career, and remain, excited about the numbers. However, my view has changed from seeing the numbers result in sizes of beams and columns, shear walls and braced frames to seeing their impact on the community in which I work and live. While perhaps, I wish I could be more reflective on the carbon footprint of the structures I design, this is not the result I’m most intrigued by. Rather, I’m intrigued by the question of how these structures make people feel.

A little over a decade ago I had the opportunity to participate as the engineer of record on a therapeutic equestrian center, used to help improve the lives of people with disabilities through therapeutic horse-related programs. I think this was when it began to sink in that structural engineering is about helping others accomplish something bigger than the building. This project was followed by an entire high school campus and many other education related structures. In these projects, I began to see student activities long before I saw the beams and the columns.

Then in 2010, I was invited to join a team responding to the earthquake that devastated Haiti. Our team spent approximately 7 days completing building safety assessments throughout the garment industry of Port-au-Prince. Our goal was focused on ensuring employees could safely return to work, supporting their livelihoods, as well as the livelihood of the Haitian economy, which relied heavily on foreign contracts in the garment industry. On this trip, it became abundantly clear that the buildings were not the industry, but merely the shells within which great things could happen for the economy of a nation.

SEAOSC News | Mexico City Reconnaissance

Several years and a couple earthquakes later, I found myself in Mexico City following the September 19th Central Mexico Earthquake. As a team sponsored by SEAOSC our goals were three-fold; look for lessons learned related to building types subject to retrofit ordinances recently passed in Southern California, interview residents and building owners regarding preparedness, response, and recovery to advance discussions of resiliency within communities, and develop photo and video resources to supplement training programs for post-earthquake and building damage assessments. While these goals were met, **the interaction with the people of Mexico had the greatest impact** and reinforced my belief that the structures were not the issue.



The issue was how the people responded to the buildings whether damaged or not. Of course, there were tragic examples of catastrophic building failure, and many examples of structural and non-structural damage that could have been prevented. However, once the shaking stopped, and rescue turned to recovery, the greater question became...what next?

It was on our final evening in Mexico when this question could not have been more vividly asked. While headed to a final building on our list for observation, I was nearly run over by woman desperately searching for structural engineers to assess buildings in her community. She spoke of a neighborhood in distress due to the impact of a damaged building looming over adjacent buildings. The subject building had been deemed “structurally sound” yet uninhabitable by City officials until repairs could be completed. However, a second engineering review considered the building to be a hazard, with evidence of partial collapse, and the potential for the building to fall in any direction.

As would be imagined, this had the neighboring building owners and occupants quite distressed, as they did not know which report to believe. One of the neighboring buildings was largely vacated by the residents, voluntarily, because they were too concerned to remain. However, a few remaining families had nowhere else to go, and they stayed because “this was home”. One of these families was a young couple with a girl who was perhaps 10-years old. The young girl’s bedroom was in the shadow of the damaged building. Their angst was further compounded by the lack of available communication from the City officials, due to the official’s overwhelming task of continuing to complete initial assessments on a huge inventory of affected structures.

While most of our previous building observations were limited to quick exterior assessments, albeit with a few excursions through the structures with an owner’s permission; the team spent almost three hours on-site for this building, a bit more than a traditional ATC-20 Rapid Assessment. With a team of six, our total of 18-hours of exterior review (we could not access the inside of the structure), combined with review of the two previous reports, might be able to be considered something just shy of an ATC-20 Detailed Assessment.

SEAOSC News | Mexico City Reconnaissance

Through our review, we reached a collective opinion that the building did not exhibit a collapse potential, and based on observations of overall plumbness of the building, supported by review of the other reports, we shared our opinion that the building did not pose an imminent hazard significantly greater than that posed prior to the earthquake. Thus, we felt the adjacent building remained safe to occupy. I went so far as to throw my own 13-year old daughter under the bus by suggesting I would allow her to sleep in the young girl's bedroom.

On the flight back to the States, another team member and I discussed trip outcomes. One thought provoking consideration was the fact that we spent, as a team, an inordinate amount of time, 18 hours, on a single building. Wouldn't it have better to spend some of that time on other buildings, we wondered. In defense of the time spent, we ticked off all the things we learned from the one building and engagement with the residents of the adjacent structure; how to observe the different crack patterns, interpretation of soil settlement vs compression displacement, discussions with community members regarding their preparedness and post-event recovery expectations, etc.

It was then that it struck me... all those items were important, but they paled by comparison to our real accomplishment. **As a team, we spent 18-hours of engineering expertise for the singular achievement, that night, of letting a little girl sleep peacefully.**

In picturing a peaceful night's sleep, I come to realize, and encourage my professional colleagues to consider; as engineers, we have an incredible opportunity, some might say responsibility, to positively impact the communities within which we work and live, we just get to use the art and science of Structural Engineering to do so.

SEAOSC News | Summit 2017

Don't Miss this Event!

From the insights of on-the-ground reconnaissance this month in Mexico City to understanding how and why the tallest building on the US West Coast was built, SEAOSC's Strengthening Our Cities Summit promises to provide attendees with new information about the Value of Resilient Buildings. With the latest information and up-to-date best practices, this year's Summit will offer dollars and cents insights to help attendees make sense of the way cities, communities, and (most importantly) building owners, lenders, insurers, and risk managers can protect the economy and individual investments in a seismic region like Southern California. Join Dozens of expert presenters, City officials, and those who are responsible for the value and risk management of our region's building stock at the premiere earthquake summit in SoCal. View the full program and register at seaosc.org/summit, and plan to join us on November 7th & 8th in Downtown Los Angeles.



November 7 & 8, 2017

seaosc.org/summit

Center at Cathedral Plaza
555 W. Temple Street
Los Angeles, CA

Find an Engineer

The Structural Engineers Association of Southern California (SEAOSC) offers a free Member Services Search service that is intended to assist the public in finding Structural Engineers (SE's) and Professional Engineers (PE's) claiming specialization in various areas of structural engineering. SEAOSC members pay a fee to advertise their "For Hire" design services on this service.

SEAOSC has a helpful brochure to help you understand structural engineering and structural engineers entitled "What you need to know about Structural Engineering. It may be downloaded from our website at: www.seaosc.org/resources/Documents/SEAOSCBrochureWeb.pdf.

An important first step is to determine the size and scope of your project. You may wish to consult an architect or contractor first to discuss cost, feasibility and design coordination.

To help compile a list of structural engineer prospects.

- ◇ Search the SEAOSC online Member Services Search for firms.

- ◇ Ask your friends and contractors for recommendations.
- ◇ Refer to your local telephone directory (check in the white pages, the "Yellow Pages," or in large metropolitan areas, the "Business Yellow Pages"), or
- ◇ Contact professional engineering and professional land surveying societies, such as SEAOSC, SEAONC, SEAOSD, SEA OCC, and SEAOC.

Confirm the engineer's State Registration.

- ◇ Visit the State of California Board for Professional Engineers and Land Surveyors (BPELSG) website and use the Online License Look-up Database at http://www.bpelsg.ca.gov/consumers/lic_lookup.shtml to verify an individual's license, search for local professional engineers in your county, and view any disciplinary actions that have taken place against a licensee. This government agency covers many types of engineers, so be sure to look for "Professional



Engineer" to view their Civil (C) or Structural (S) license.

- ◇ Review the Consumer Guide at http://www.bpelsg.ca.gov/pubs/consumer_guide.pdf published by BPELSG for additional information on selecting a qualified engineer.

Select two or more engineering firms and ask for references from previous jobs similar to yours. Verify their expertise in your type of project and their ability to complete projects on time and on budget.

Request that an engineer visit the project site in order to submit a written proposal, including the objectives, anticipated time schedule and engineer's compensation. While some engineers do not charge for a preliminary visit, many do.

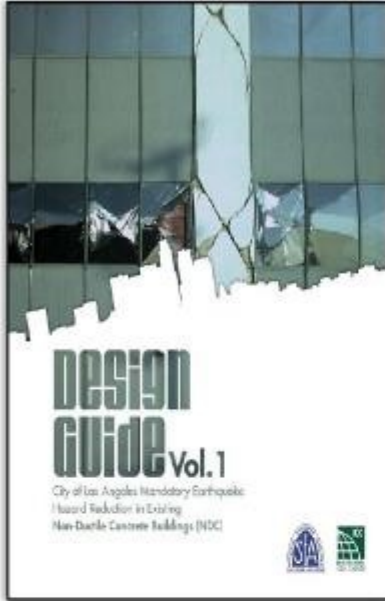
[Click Here](#) to learn more.

Did you Know? SEAOSC Membership Includes:

Provided in conjunction with the National Council of Structural Engineering Association (NCSEA) and the Structural Engineers Association of California (SEAOC).

- Member discounts on SEAOC's renowned Annual Convention, which provides continuing technical education, networking and social events in resort settings-- plus a free copy of the Convention Proceedings.
- Discounts on our numerous educational opportunities: seminars, webinars and educational meetings held in revolving locations in the Los Angeles Basin and in the Tri-Counties areas.
- Representation on the national and state legislative scenes on issues vital to structural engineers..
- And More..... [Read About it Here](#)

NDC and SWOF Seismic Retrofit Design Guides



This design guide discusses and demonstrates methodologies for the seismic evaluation and strengthening of existing non-ductile concrete buildings. While aspects of this guide focus on the mandatory City of Los Angeles earthquake hazard reduction ordinance and historical construction practices of the Southern California region, it is generally applicable to any other existing concrete buildings in areas of moderate or high seismicity. In this guide you will find a collection of practical advice, guidance on implementing current evaluation and retrofit methodologies, summaries of relevant and useful reference materials, and detailed examples. Additional insights are given based on the latest available research and next-generation standards development work. Extensive commentary is provided and various approaches are presented to address this challenging subject.

The publication of this design guide coincides with the end of the triennial code cycle, and was written for use with the 2017 City of Los Angeles Building Code based on the 2015 International Building Code and ASCE 41-13. This guide is an excellent resource for practicing professional engineers, architects, building officials, academics, and students evaluating this type of structure.

**SEAOSC Design Guide
Vol. 1: City of Los Angeles Mandatory Earthquake Hazard Reduction in Existing Non-Ductile Concrete Buildings (NDC)**
Pricing:
Non-Members:
Printed: \$45
Electronic: \$42
Members:
Printed: \$38
Electronic: \$35

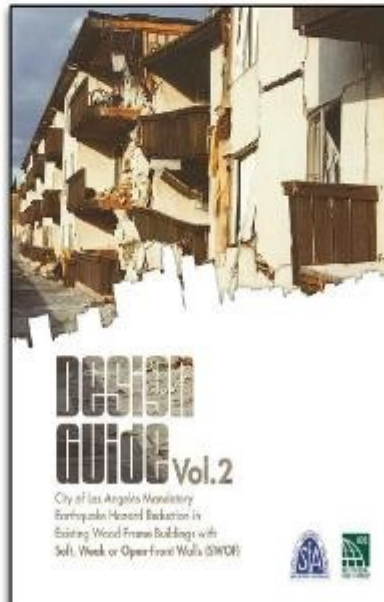
[Click Here to Purchase](#)

Electronic Version also Available

This design guide provides an example and detailed commentary for the seismic strengthening of existing wood-frame buildings with soft, weak or open-front (SWOF) wall lines subject to the recently passed mandatory Los Angeles Ordinance. The design example in this guide demonstrates a prescriptive, ordinance-based retrofit approach for a typical open-front wall line. Following this example, a demonstration is given showing how FEMA P807 could be used to design a retrofit for the same example building.

Commentary in the guide discusses challenges inherent in this type of retrofit including: lateral force-resisting system selection, shear transfer detailing, and existing material capacities. Additionally, capacity-based design concepts are presented to provide creative solutions for buildings with unique challenges. Scope, responsibilities of the design professional, and other topics are discussed in great detail to further aid the design professional and provide a clearer understanding of the requirements of the Ordinance.

This design guide was written for use with the 2014 City of Los Angeles Building Code based on the 2012 International Building Code and ASCE 7-10. This guide is an excellent resource for practicing professional engineers, architects, building officials, academics, and students evaluating this type of structure.



**SEAOSC Design Guide
Vol. 2: City of Los Angeles Mandatory Earthquake Hazard Reduction in Existing Wood-Frame Buildings with Soft, Weak or Open-Front Walls (SWOF)**
Pricing:
Non-Members:
Printed: \$29
Electronic: \$26
Members:
Printed: \$25
Electronic: \$22



SAFER CITIES ADVISORY PROGRAM



Developing a Seismic Safety Ordinance? Or a Back-to-Business Program?

We have something for you!

The Structural Engineers Association of Southern California (SEAOSC) is here to help. It is who we are. We are here to help develop the technical basis behind local building codes and standards. We are here to be a resource for our members and the industry at large so together we can make a difference.

SEAOSC applauds the increased interest in the seismic safety of our communities; an interest that has developed fortunately now and before the potential loss of life and damage to property. We are proud that our Cities and other local jurisdictions are taking proactive steps to better understand the current risk to life and property of the existing built environment and then develop regulations and means by which that risk can be reasonably and significantly reduced.

We know that you have limited resources, and we know that you want to make sure that what steps you are taking are technically sound. SEAOSC is proud to introduce our Safer Cities Advisory Program, our way of providing the technical insights and creative minds of our membership to further our shared goals of reasonable and effective regulations and programs that make the difference.

Our program is based on a pool of qualified SEAOSC members, able and willing to review regulations and other programs such as a back-to-business program developed by you. Our members will volunteer their time to offer you recommendations to refine to your proposed regulations and programs. We want you to be successful with the implementation of your seismic safety initiatives; let us help you at no cost to you.

All you need to do now is ask for us to help: send us an email at seaosc@seaosc.org. We look forward to working with you.

The Safer Cities Advisory Program is here to complement that great work you are already doing!

The Safer Cities Advisory Program complements your engagement of the structural engineering community. We strongly encourage Cities and other Southern California jurisdictions to engage structural engineers to assist you in determining your inventory of buildings that are highly vulnerable to seismic damage and develop proposed regulations for the retrofit of those structures. The Safer Cities Advisory Program is an option for you to have an independent, qualified review of your draft ordinances and programs. We are here solely to offer you insightful and expert advice from our highly qualified and vetted members.



Are you a City or other agency or SEAOSC Member interested in our program? If so, email, call, or write us at the following:

437 S. Cataract Ave., #4-B, San Dimas,
CA 91773 phone: (562) 908-6131
email: seaosc@seaosc.org



The SEAOSC Foundation

The SEAOSC Foundation exists to advance the scientific principles of structural engineering through sponsoring of structural engineering research, publishing of studies, papers and reports of structural engineering significance, and funding of annual student scholarships.

To further the development of structural engineering, the Foundation looks for partners, be it individuals, companies or corporations, who are interested in pursuing structural engineering innovation and research for use in the public domain.

In furtherance of its purposes, the SEAOSC Foundation may:

- Sponsor scientific research, both fundamental and applied, intended to aid in the advancement of structural engineering.
- Provide tuition scholarships for students intending to enroll or are currently enrolled in engineering programs with a structural engineering specialization leading to a degree from an accredited institution of higher learning.
- Publish the results of studies, papers, and other reports of special importance and significance to structural engineers.
- Solicit financial support from structural engineers, foundations, and the general public to support this corporation's activities.

As a 501(c)(3) nonprofit corporation, all donations made to the *SEAOSC Foundation* are tax deductible as a charitable donation, to the extent of the law, by the individual making the contribution.

We are currently seeking donations to advance this effort and hope that you will partner with us to advance structural engineering. Donations can be made by check, made payable to "SEAOSC Foundation" and mailed to the SEAOSC Office:

SEAOSC Foundation
Attention: Dianne Ochoa
437 S. Cataract Avenue, #4B
San Dimas, CA 91773
Phone: 562-908-6131 or
E-mail: foundation@seaosc.org

Committee Updates | Building Codes & Standards Committee

Notes from the Building Codes & Standards Committee – LABC 2017 UPDATES

In an effort to keep the SEAOSC Members better informed, updates by the SEAOSC Codes and Standards Committee will provide information on the development process for many codes, including the I-Codes, ASCE 7, ACI, AISC, AISI, AWC, etc. On September 29, 2017, the City of Los Angeles amended the 2017 Los Angeles Building Code (LABC) with Ordinance 185198. This revision included the following parts relating to structural design:

Section 91.1613.5.6 was revised as follows:

91.1613.5.6. Modify ASCE 7 Section 12.8.1.3 as follows:

ASCE 7 Section 12.8.1.3. Maximum S_s Value in Determination of C_s and E_v . The value of C_s and E_v are permitted to be calculated using a value of S_s equal to 1.5 but not less than 70% of S_d s as defined in ASCE 7 Section 11.4.4, provided that all of the following criteria are met:

1. The structure does not have irregularities, as defined in ASCE 7 Section 12.3.2;
2. The structure does not exceed five stories above the lower of the base or grade plane as defined in ASCE 7 Section 11.2; and, where present, each mezzanine level shall be considered a story for the purpose of this limit;
3. The structure has a fundamental period, T , that does not exceed 0.5 seconds, as determined using ASCE 7 Section 12.8.2;
4. The structure meets the requirements necessary for the redundancy factor p , to be permitted to be taken as 1.0, in accordance with ASCE 7 Section 12.3.4.2;
5. The site soil properties are not classified as Site Classes E or F, as defined in ASCE 7 Section 11.4.2; and
6. The structure is classified as Risk Category I or II, as defined in ASCE 7 Section 1.5.1.

Section 91.2.400 is amended to read as follows:

Chapter 4 of the CEBC is hereby adopted by reference except for CEBC Sections 401.1, 401.2.1, 402.4, 403.4 and 407.4 which are not adopted, LAMC Subsections and Subdivisions 91.2.401.1, 91.2.401.2.1, 91.2.401.6, 91.2.401.7, 91.2.402.4, 91.2.403.4, 91.2.407.4 and 91.2.409.1 are added.

Section 91.2.402.4 is amended to read as follows:

Where the addition is structurally independent of the existing structure, existing lateral load-carrying structural elements shall be permitted to remain unaltered. Where the addition is not structurally independent of the existing structure, the existing structure and its addition acting together as a single structure shall be shown to meet the requirements of CBC Sections 1609 and 1613. For purposes of CEBC Section 402, compliance with ASCE 41, using a Tier 3 procedure and the two level performance objective in CEBC Table 301.1.4.1 for the applicable risk category, shall be deemed to meet the requirements of CBC Section 1613, with procedures established by the Department.

Committee Updates | Building Codes & Standards Committee

Continued...

The first sentence of Section 91.2.403.4 is amended to read as follows:

Where the alteration increases design lateral loads in accordance with CBC Section 1609 or 1613, or where the alteration results in a prohibited structural irregularity as defined in ASCE 7, or where the alteration decreases the capacity of any existing lateral load-carrying structural element, the structure of the altered building or structure shall be shown to meet the requirements of CBC Sections 1609 and 1613. For purposes of CEBC Section 403, compliance with ASCE 41, using a Tier 3 procedure and the two level performance objective in CEBC Table 301.1.4.1 for the applicable risk category, shall be deemed to meet the requirements of CBC Section 1613, with procedures established by the Department.

The first sentence of Section 91.2.407.4 is amended to read as follows:

When a change of occupancy results in a structure being reclassified to a higher risk category, the structure shall conform to the seismic requirements for a new structure of the higher risk category. For purposes of CEBC Section 407, compliance with ASCE 41, using a Tier 3 procedure and the two level performance objective in CEBC Table 301.1.4.1 for the applicable risk category, shall be deemed to meet the requirements of CBC Section 1613, with procedures established by the Department. These LABC amendments may be found at http://clkrep.lacity.org/onlinedocs/2013/13-1214_ORD_185198_11-22-17.pdf.

Currently, the Department of Building and Safety is in the process of developing the procedures that may be used with the ASCE 41, Tier 3 and level two performance objective in CEBC Table 301.1.4.1. The forthcoming policy will be distributed in an upcoming SEAOSC Newsletter.

Committee Updates | Younger Members Committee

SEAOSC YM Steel Day Tours & Happy Hour

1PM-6PM
Friday, October 27th, 2017
12120 E. Florence Ave.,
Santa Fe Springs, CA. 90706



AISC and the SEAOSC YM group collaborated to plan a double tour followed by a happy hour for Steel Day 2017. The first stop will be at Paramount Roll & Forming, a steel bender/roller, from 1pm to 2:30pm followed by a tour of Plas-Tal, steel fabricator and erector, from 3pm to 4:30pm. Both shops are conveniently located in Santa Fe Springs which is between Downtown and OC. Happy Hour will be at The Bottle Room at 5pm. Don't miss out on this great chance to learn and network! Dress Code: No open toed shoes, no nylon clothing, jeans preferred.

To RSVP, please contact:

Russell McLellan

ramclellan@sgh.com

Maria Mohammed

mmohammed@structuralfocus.com



Please also register at: <https://www.aisc.org/why-steel/steelday/events/>



Committee Updates | Seismology Committee

By J. Gebelein, Chair, jgebelein@bjsce.com

Once again, the SEAOSC Seismology committee remains a strong and active group this year, and there always seems to be something new and exciting to debate and collaborate on. We meet regularly once a month on a weeknight from 7pm-10pm at various locations around town and usually have a web conference connection for those who can't attend in person. Our upcoming meetings are Oct 24, Nov 14, and Dec 12. Anyone looking to get involved is welcome to join our meetings, please email me if you are interested!

Our big project of late is the update of the SEAOC Blue Book in time for its 60th anniversary in 2019. We are collaborating with all the SEAOC Seismology MO's to update and supplement our flagship publication. For example, our Vice-Chair Cairo Briceno recently presented the committee with an updated version of the "Development of System Factors" article, and our Past-Chair Jesse Karns is leading the effort to update the "Steel SFRS Connections to the Foundation" article.

Local seismicity has been a focus of much discussion within the committee. Our committee member Marty Hudson has helped us follow the development of the Southern California Earthquake Center (SCEC) Cyber-shake tool which models site-specific ground shaking in our area, and is the topic of an upcoming webinar on Oct 26: <http://seaosc.org/event-2679615>. This tool will primarily be used for soft soil sites with ASCE 7-16, and promises to finally capture basin amplification effects where long-period buildings may experience site resonance. New draft Alquist-Priolo fault surface trace maps have been released for the Beverly Hills and Topanga Quads by the California Geological Survey, available here: <http://www.conservation.ca.gov/cgs/rghm/ap/Pages/PreliminaryMaps.aspx>. USGS is working on updating our mapped seismic hazard coefficients for future codes, and we have been following what that means to our region closely.

Recently, the seismic performance of stairs has seen a lot of attention, notably poor with brittle steel connection fractures and collapse in some cases. Our committee is working on a new Blue Book article, and Steel subcommittee member Lorena Arce has been investigating a potential collaboration with AISC.

Cross-Laminate Timber (CLT) has been coming up in many seismology discussions regarding how to determine seismic system factors and behavior for such things as rocking wood shear walls. Committee member Mikhail Gershfeld has been plugged in on this and expects us to see more of this new product in the Southern California area soon.

You may have noticed the recent trendiness of "Resilience". We have started a subcommittee for "Resilient Structural Design" with the task to take this important topic and bring it to actionable form for our members. I presented a working group paper at the SEAOC Convention last month that I hope will get the discussion going in earnest: https://c.ymcdn.com/sites/seaoc.site-ym.com/resource/resmgr/Convention_Proceedings/2017/047_PAPER_Gebelein.pdf. Our subcommittee meets every Thursday from 12-1pm on a conference call. Please email me if you are interested in participating in this state-of-the-art work.

I hope you have been following our SEAOSC Safer Cities Recon group in Mexico City who just returned recently and will share their stories at the SEAOSC Summit soon. Their blog is on the website here: <http://seaosc.org/Safer-Cities-Recon>. The team is a mix of experienced and young engineers representing both the Seismology and Existing Buildings Committees (EBC), and lead by the EBC chair Daniel Zepeda.

Being a part of the Seismology Committee is always a thought-provoking experience, where you will learn much from friendly discussion, debate and camaraderie. Seeing the major earthquakes happening around us in the ring of fire like Mexico City brings home the importance and urgent need for continued improvements in seismic design. I hope you will either join us, or enjoy and use the fruits of our committee's labors in your work. Help our industry move forward and make our community a better and safer place.

Industry News | SEAOC News



PRESS RELEASE

SEAOC Supports Fire Relief Efforts

*By Janah Risha, PE, SE, F. ASCE, SEAOC Board President and
Ken O'Dell, SE, SEAOC Communications Committee Chair*

The recent devastating fires in Northern California remind us, once again, that the power of nature can be staggering. The Structural Engineers Association of California (SEAOC) extends its deepest sympathies to all those affected by the disastrous fires in Sonoma, Napa, and surrounding seven counties. The loss of life is saddening and the extent to which residences and businesses were lost is overwhelming. Whether as part of the California Office of Emergency Services (Cal OES) response or by providing design services during recovery, the structural engineering community and SEAOC stand ready to assist the rebuilding effort.

Cal OES sent out a Reserve Corps Activation Notification on Oct. 15 seeking volunteers registered with the Safety Assessment Program (SAP). These structural engineering volunteers may be utilized by local jurisdictions to help assess the safety of affected structures to allow re-occupancy within affected zones as rapidly as possible. Unfortunately, many homes and structures were total losses. However, others remain needing assessment before owners can return. SAP-certified engineers with current ATC-20 training status are reminded to contact their local organization to confirm their SAP Deployment Volunteer Availability. One SEAOC member has already been deployed to Napa and there may be additional deployments in the near future.

SEAOC thanks the responding firefighters and law enforcement personnel for their valiant handling of this crisis. Their efforts, and those of the many healthcare professionals continuing to care for their communities, despite all the challenges that they faced without power, water, medicine, or equipment, are strong examples of dedication to the communities they serve. The unprecedented crisis serves as a wake-up call for the state. SEAOC is committed to taking lessons learned from this event to develop effective processes in preparing our members to support the wide range of response efforts, helping to ensure that future natural disasters, such as earthquakes, do not become catastrophes:

SEAOC, one of the oldest associations for Structural Engineers in the world, believes the engineer's role does not stop at the structure, but extends to our ability to affect lives for the betterment of the community. We strongly encourage our members to seek ways to make a lasting and positive impact on the lives of those affected by the fires throughout California as they work to recover. There are many ways to do so, a few of which are listed below:

Industry News | SEAOC News



For our members in Northern California, an ATC-20 SAP training class will be held on Saturday, Nov. 11, 2017, at Santa Clara University. If you need to renew or initiate your certificate you can register here: <https://www.seaoc.org/civcrm/event/info?reset=1&id=182>

The Community Foundation of Sonoma County has launched the Sonoma County Resilience Fund to help with the mid- to long-term needs of Sonoma recovery. <http://www.sonomacf.org/sonoma-county-resilience-fund/>

The Napa Valley Community Foundation started its Disaster Relief Fund in 2014 after the earthquake there impacted South Napa. Mobilizing a similar response for fire victims, the foundation intends to work with government agencies to identify recovery areas in most need and offer assistance including grants to smaller, local nonprofits.

<http://www.napavalleycf.org/supporting-napa-county-fire-relief-efforts/>

Local news sources, such as SFGATE, are also providing links containing information identifying other ways to provide assistance.

<http://www.sfgate.com/bayarea/article/Wine-Country-fires-donations-how-to-help-12271362.php>

Structural Engineers Association of California (SEAOC)
921 11th St, Ste. 1100 • Sacramento, CA 95814
p (916) 447-1198 • f (916) 444-1501
info@seaoc.org • www.seaoc.org

Industry News | CALBO / SEAOSC

CALBO/SEAOSC Collaborative CALBO Education Week Presentation on Retrofit Ordinances

CALBO and SEAOC organized an all-day class for the CALBO Education Week in Ontario CA entitled "An Introduction to Understanding and Developing a Soft-Story and Existing-Building Retrofit Ordinance for Your Jurisdiction." The class was full of great and practical information as well as insights from presenters with experience working on seismic retrofit ordinances and the attendees were very engaged. A great collaboration between CALBO and SEAOC! From left-to-right: SEAOC Existing Buildings Committee member David Bonowitz SE (presenter), CALBO Immediate Past President **Ron Takiguchi, P.E.** of the City of Burbank (presenter), SEAOC and SEAOSC Existing Buildings Committee Chair **Daniel Zepeda** SE of Degenkolb (presenter), CALBO President **David Khorram** PE of the City of Long Beach, and SEAOC Secretary/SEAOSC Immed. Past Pres. **Jeff Ellis** SE of Simpson Strong-Tie. The class will be provided again at the CALBO Education Week on Monday February 5th <http://www.calbo.org/education/edweek/>.



SEAOSC Events



Webinar—SCEC Ground Motion Tool

October 26, 2017—Starts at 12:00pm

[Register Here](#)

The Utilization of Ground Motion Simulation (UGMS) committee of the Southern California Earthquake Center (SCEC) is currently developing risk-targeted Maximum Considered Earthquake (MCER) maps for possible inclusion as an amendment to the ASCE 7-16 edition of the Los Angeles City Building Code (LACBC). These maps are scheduled for release in 2017. The maps will be based on 3-D numerical ground-motion simulations and ground motions computed using the empirical ground-motion prediction equations (GMPEs) from the Pacific Earthquake Engineering Research (PEER) Center NGA West2 project. A web-based lookup tool, similar to the USGS lookup tool, will be posted so users can obtain the MCER response spectrum for a specified latitude and longitude and for a specified site class or 30-m average shear-wave velocity, V_{s30}

[Click Here to View Flyer](#)

November LA Dinner Meeting

November 1, 2017—Starts at 5:30pm

Doubletree by Hilton Los Angeles Downtown
120 S. Los Angeles Street, Los Angeles CA 90012

[Register Here](#)

Panel Discussion: Effective Leadership and Management For All Engineers

The November dinner meeting will feature a panel of distinguished engineers speaking on effective leadership and management within the engineering industry. Our panelists come from all different backgrounds and provide a leadership perspective from various levels of experience. Panelists will discuss their personal knowledge of leadership techniques that are most effective, and what strategies to avoid. Lessons learned from the panelists' time in a management role will provide valuable insight into how management has changed over recent years, and how to promote effective leadership at all experience levels within your firm. Engineers at any stage of their career will find something new and educational to take with them into their own company, as well as their career.

[Click Here to View Flyer](#)

SEAOSC Events



Strengthening Our Cities Summit

November 7 & 8, 2017—Starts at 8:00am
The Center at Cathedral Plaza
555 West Temple St, Los Angeles CA 90012

[Register Here](#)

What makes resilient buildings valuable to their owners, occupants, and community?

Join hundreds of leaders to define the future of resilience in across SoCal

- Learn from the experts how to saving money with resilient design of new buildings
- Understand building value and how structures fit into resilient communities
- Visit seaosc.org/summit to see the full program

[Click Here to View Flyer](#)

Save the Date—SEAOSC Holiday Party

December 6, 2017—Starts at 6:00pm
Parkers' Lighthouse
435 Shoreline Village Drive, Long Beach, CA 90802

Join Us for our SEAOSC Annual Holiday Dinner!

Cocktails, Dinner & "50/50" Raffle

Raffle to benefit the upcoming Students Night scholarships

Details Coming Soon



Date:
Thursday, October 26, 2017

Time:
12:00pm – 1:00pm

Cost:
Members: \$75
Non-Member: \$150

For more Information,
visit seaosc.org

For help with registration,
contact the SEAOSC Office at
562-908-6131. We are here to
help!

WEBINAR: SCEC GROUND MOTION TOOL

Thursday, October 26, 2017

12:00pm-1:00pm

[Register Here](#)

PRESENTATION

The Utilization of Ground Motion Simulation (UGMS) committee of the Southern California Earthquake Center (SCEC) is currently developing risk-targeted Maximum Considered Earthquake (MCER) maps for possible inclusion as an amendment to the ASCE 7-16 edition of the Los Angeles City Building Code (LACBC). These maps are scheduled for release in 2017. The maps will be based on 3-D numerical ground-motion simulations and ground motions computed using the empirical ground-motion prediction equations (GMPEs) from the Pacific Earthquake Engineering Research (PEER) Center NGA West2 project. A web-based lookup tool, similar to the USGS lookup tool, will be posted so users can obtain the MCER response spectrum for a specified latitude and longitude and for a specified site class or 30-m average shear-wave velocity, V_{s30} . The acceleration ordinates of the MCER response spectrum will be provided at multiple natural periods in the 0 to 10-sec band; values of SDS and SD1, per the requirements in Section 21.4 of ASCE 7-16, will also be listed.

PRESENTER



C.B. Crouse, PhD, PE, Principal Engineer/Vice President
AECOM

Dr. C.B. Crouse has been a consultant in earthquake engineering and engineering seismology for 43 years since receiving his Ph.D. degree in civil engineering from Caltech. He is currently principal engineer and vice president at AECOM in Seattle, Washington, where he primarily conducts seismic hazard and soil-structure interaction studies and develops earthquake ground motions (response spectra and time histories) for various types of projects throughout the world. Dr. Crouse was chairman of the subcommittees on ground motion and foundation design for the 2014 NEHRP and ASCE 7-16 seismic provisions, and was past chairman of the subcommittees on ground motion for the 2003, 2008 NEHRP and ASCE 7-05 and 7-10 seismic provisions. He is currently a member of the BSSC Project 17 and Provisions Update Committees and is chairman of the SCEC Utilization of Ground-Motion Simulations committee, which has recently developed a web-based look-up tool for obtaining site-specific MCER response spectra for Southern California per the site-specific requirements in Chapter 21 of ASCE 7-16. The approach involves the use of the NGA West2 ground-motion prediction equations and 3-D physics-based numerical simulations of ground motions from earthquakes on the regional active faults.



LA DINNER MEETING NOVEMBER 2017

Agenda:

5:30pm-6:30pm
Registration & Networking

6:30pm-7:00pm
Dinner

7:00pm
Presentation

Cost:

Enroll on or before 10/20/17 for
Early-Bird Discount

Early Bird / Regular

Individual Tickets

Members: \$55 / \$65
Non-Member: \$65 / \$75
Students: \$35 / \$35

Onsite Reg Fee: \$10

Reserve a Table of 8:

Member: \$465
Non-Members: \$535

Exhibit/Sponsorship Opportunity

Single Event: \$500
Package of 4 Events: \$1700
(limited to 10 sponsors total)

Includes:

- Exhibit Table
- 2 Exhibitor Tickets (incl. Dinner)
- 2 Dinner Tickets

For more Information,
[visit seaosc.org](http://visit.seaosc.org)

[REGISTER NOW!](#)

Wednesday, November 1, 2017

Networking, Dinner & Presentation

*Doubletree by Hilton Los Angeles Downtown
120 S. Los Angeles Street, Los Angeles CA 90012*

[Register Here](#)

PRESENTATION:

PANEL DISCUSSION: EFFECTIVE LEADERSHIP AND MANAGEMENT FOR ALL ENGINEERS

The November dinner meeting will feature a panel of distinguished engineers speaking on effective leadership and management within the engineering industry. Our panelists come from all different backgrounds and provide a leadership perspective from various levels of experience. Panelists will discuss their personal knowledge of leadership techniques that are most effective, and what strategies to avoid. Lessons learned from the panelists' time in a management role will provide valuable insight into how management has changed over recent years, and how to promote effective leadership at all experience levels within your firm. Engineers at any stage of their career will find something new and educational to take with them into their own company, as well as their career.

PRESENTERS:

Moderator:

David Cocke, President, Structural Focus

Panelists:

Garrett Mills, Principal/COO, Taylor & Syfan

Patti Harburg-Petrich, Associate Principal, BuroHappold Engineering

Richard Chen, Principal, Miyamoto International

Edward Arrington, Senior Civil Engineer, LA City



STRENGTHENING OUR CITIES SEAOSC SUMMIT



The Value of Resilient Buildings

November 7 & 8, 2017

seaosc.org/summit

Center at Cathedral Plaza
555 W. Temple Street
Los Angeles, CA

What makes resilient buildings valuable to their owners, occupants, and community?

- Join hundreds of leaders to define the future of resilience in across SoCal
- Learn from the experts how to save money with resilient design of new buildings
- Understand building value and how structures fit into resilient communities
- Visit seaosc.org/summit to see the full program

FEATURED SUMMIT SPEAKERS



Marissa Aho
Chief Resilience Officer,
City of Los Angeles



Jason Peery
Resident Managing Director, Senior Vice
President of Aon Risk Services



Evan Reis
Executive Director,
U.S. Resiliency Council

Sign up today to be a part of planning for a safer and more resilient Southern California!

Thank you to our sponsors for making the Summit possible! Sponsorships still available!



Advertisement & Sponsorship Opportunities



SEAOSC provides opportunities throughout the year for our industry partners to reach their target audience. There are three avenues available: advertising, exhibits and event sponsorship. Details and package discounts are available on the website. [Click Here](#) to purchase.

Advertising Opportunities

Newsletter Advertising

SEAOSC publishes an electronic newsletter, SEAOSC News, which is posted online at www.seaosc.org in a color.pdf format. 11 issues are published annually on a monthly basis, with the exception of a single, combined issue for July and August. The newsletter is available on the public portion of the website.

NEW FOR 2017! Job Wanted / Help Wanted Ads will be posted on the SEAOSC [website](#) for 30 days!

Website Advertising

Website banner ad with company website click-through for one month. Yearly and half-yearly banner ad packages also available. See more

Exhibit/Sponsor Opportunities

Exhibit Opportunities

SEAOSC invites our corporate colleagues to exhibit at our educational events and special programs as noted below. Cost includes one 6 ft. draped table, meal for up to 2 exhibit staff, 2 complementary tickets for exhibitors to give to non-SEAOSC members who may be interested in attending.

- Winter Education Programs (January)
- Spring Education Programs (April/May)
- SEAOSC Educational events – 4 opportunities available annually
- SEAOSC Summit (November)

Sponsorship Opportunities

SEAOSC has special opportunities for additional sponsorships, vendors, and exhibitors at additional events and seminars throughout the year. Please see the events below and check the SEAOSC Events Calendar for the most up-to-date information!

- Student Scholarships & Job Fair (February)
- Winter Education Programs (January)
- Spring Education Programs (April/May)
- Annual End-of-Year Awards & Past President's Dinner (June)
- Annual Golf Tournament (August)
- SEAOSC Summit (November)
- Monthly Dinner Meetings

Classified Ads



Civil Engineer-Structural Design

Opportunity for civil engineer at Tahoe City, California. Skills should include 6 to 10 years experience in structural design of residential and commercial projects, CAD and/or Revit a plus, snow country experience preferred, PE preferred or the ability to obtain license in California and Nevada within 1 year, SE license is a bonus, design of wood framing, moment frames, steel, and concrete required. Code knowledge and constructability design is critical. People skills are highly valued. Projects range from private residences, workforce housing, apartments and condominiums, commercial, and remodels/additions. Health benefits, 401k, PTO, profit sharing, excellent salary, and flexible schedule. This is a unique opportunity to join a 30 year old firm in one of the most premier outdoors areas in the country at Lake Tahoe, California. JKA has offices in both Auburn and Tahoe City. A flexible job schedule that allows the enjoyment of the outdoors recreation and a healthy family life. The culture of young creative staff enhances growth and excitement. Contact gary@jkaedesign.com for detailed job description and to send resume and letter of interest.



Senior and Mid-Level Structural Engineers

Founded in 1946, Buehler & Buehler Structural Engineers, Inc. (B&B) provides a wide range of structural engineering services throughout the United States. Headquartered in Sacramento, B&B has regional offices in Los Angeles, Phoenix, San Francisco and Silicon Valley.

We are looking for both Senior and Mid-Level Structural Engineers for our LA office. Senior Structural Engineers should have their California S.E. with 15+ years of structural design and analysis experience in a broad range of project types, experience managing projects and strong client relationships. Mid-Level Structural Engineers should have at least 3+ years of experience in structural design and analysis, California P.E. preferred. B&B offers a competitive salary and excellent benefits including medical, dental, vision, 401(k), profit sharing, paid holidays, vacation and sick time, life insurance, and annual bonuses, as well as the opportunity for advancement.

Opportunities are available in all offices. Please submit cover letter, resume and references to:

resumes@bbse.com.

Mid Level Structural Design Engineer



Job Description: The open position is for a mid level design structural engineer with a minimum of 3 years of California design experience. The position is full time (40 hours/week).

Benefits: Competitive Salary; Vacation/Sick Time; Paid Holidays; 401k + Company Match, Annual Bonus

Necessary Qualifications: Bachelor Science Architectural, Civil or Structural Engineering; California Engineer in Training (EIT) Certified preferred; Excellent Communication Skills; Professional Engineer License (PE) not required; Design experience with Wood/Steel/Concrete & Masonry preferred in high seismic zones. Additional

Preferred Qualifications: Experience with Autocad required; Experience with Revit preferred; Experience with

RISA, Enecalc, MS Office. Company Description: ISE is a professional service firm providing structural engineering services for residential, commercial, educational, medical & municipal projects. ISE prides itself on providing an innovative & quality structural engineering service.

Please forward qualified resumes to: Danielle@ISEEngineers.com

Classified Ads



KNA Structural Engineers—Orange County

KNA Structural Engineers has immediate openings for motivated engineers at all experience levels. KNA specializes in structural engineering of educational, civic and healthcare facilities. We offer growth and success for our employees through competitive compensation, benefits package, and a balanced work lifestyle. Flex hours available.

Learn more about KNA at knastructural.com.

REQUIRED QUALIFICATIONS: Bachelor of Science in Architectural or Civil Engineering (Structural) from an accredited university, California seismic engineering background and proficiency with the California Building Code and other related codes. Experienced candidates should also have PE or SE license and working proficiency with Revit. OSHPD or DSA project experience is a plus. Entry-level candidates are required to have FE/EIT Certification. Qualified candidates are invited to submit their resume along with a cover letter via our careers page at knastructural.com.

Senior and Mid-Level Structural Engineers



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July 1, 2017 – June 30, 2018

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 blyons@risha.com
 818-729-9777

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 mehran@sai.fulbouquet.com
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 jellis@strongtie.com
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Directors

Massoud Abolhoda, S.E.
 mabolhoda@co.santa-barbara.ca.us
 805-568-3120

Matt Barnard, S.E.
 mbarnard@degenkolb.com
 213-596-5000

Sandra Biddulph, S.E.
 sbiddulph@dc-engineers.com
 949-892-4950

Josh Gebelein, S.E.
 jgebelein@bjsce.com
 213-596-4500

Patti Harburg-Petrich, S.E.
 Patti.Harburg-Petrich@BuroHappold.com
 310-920-0056

Donny Harris, S.E.
 Donny.Harris@labibse.com
 310-665-1536

Truong Huynh, P.E.
 Truong.Huynh@longbeach.gov
 562-570-6921

Jackie Vinkler, S.E.
 vinkler@johnmartin.com
 213-483-6490

SEAOSC Executive Director

Dianne Ochoa
 seaosc@seaosc.org



Structural Engineers Association OF SOUTHERN CALIFORNIA

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.

Committees	Chair(s)	Phone	Email
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	Christian Cody	323-907-2523	christian.cody@hilti.com
	Kevin O'Connell	213-271-1934	kdoconnell@sgh.com
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	Maria Mohammed	310-323-9924	mmohammed@structuralfocus.com
Image & Public Relations	Samuel Mengelkoch	310-323-9924	smengelkoch@structuralfocus.com
Education	Matthew Michnewich	213-785-3195	mmichnewich@johnmartin.com
Professional Practices	Daniel Traub	310-254-1900	dtraub@walterpmoore.com
Building Codes & Stds.	Michael Ciortea	213-897-0314	michael.ciortea@dgs.ca.gov
	Colin Kumabe	562-221-9418	ckumabe@gmail.com
Seismology	Josh Gebelein	213-596-4540	jgebelein@bjsce.com
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Existing Buildings	Daniel Zepeda	213-596-5000	dzepeda@degenkolb.com
Disaster Emergency Svcs.	Doug Litchfield	909-392-5353	dlitchfield@mwrdh2o.com
Quality Assurance	James McDonald	213-271-1912	jamcdonald@sgh.com
Sustainable Design	Vivian Peña	213-271-1966	vdpena@sgh.com
Summit	David Williams	213-596-4992	dwilliams@degenkolb.com
	Saeed Fathali	415-264-0029	sfathali@structuraltec.com

Please visit <http://seaosc.org/committees> to view the annual committee charges and tasks.