



Structural Engineers Association
of Southern California

SEAOSC NEWS

FEBRUARY 2018

INSIDE THIS ISSUE:

Presidents Message	2
Member Spotlights	5
SEAOSC Member News	6
SEAOSC News	7
SEAOSC Foundation	14
Committee Updates	15
Industry News	16
SEAOSC Events	18
Advertise/ Sponsor	20
Classified Ads	21
SEAOSC Board & Committees	23

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

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



THE ANNUAL CAREER FAIR & STUDENT SCHOLARSHIPS AWARDS NIGHT

Wednesday, February 7, 2018

3:30pm-6:30pm - Career Fair & Social Networking

6:45pm - Dinner

7:15pm - Presentation

8:00pm - Scholarship Awards

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

Cost:

Members: \$55 EB / \$65 | Non-Member: \$65 / \$75 | Students & Faculty: Free

Reserve a Table of 8: Member: \$465 | Non-Members: \$535

Onsite Reg Fee: \$10

CAREER FAIR & SOCIAL NETWORKING

To exhibit in the Career Fair and participate in the SEAOSC Foundation Annual Student Scholarship program, [click here](#) for levels and benefits.

DINNER PRESENTATION:

Why did we become Structural Engineers?

On September 19, 2017, Mexico experienced a 7.1 magnitude earthquake near Mexico City that killed an estimated 370 people, left tens of thousands homeless, and devastated local economies. Ironically, this came on the anniversary of the 1985 Mexico City earthquake that killed thousands of people. In response, SEAOSC dispatched the Safer Cities Reconnaissance Team (SCRT) to investigate, first hand, the aftermath of the earthquake. The team was composed of six highly qualified members from different firms including, Daniel Zepeda, Ken O'Dell, Marty Hudson, Dion Marriott, Russell McLellan and Raul Jimenez.

Although the primary goal of the team was to conduct observations that could be shared with our peers in the U.S., the trip provided more than that. The team was able to provide much needed expert advice to the desperate residents that had lost their homes and often family members. The team collaborated with local authorities who lacked proper resources to respond to such a large devastating event. During this presentation we will reflect back to our experience in the event and ask our self's what the purpose of our structural engineering profession is in a high seismic zone.

MODERATOR: Ken O'Dell, SE, Principal, MHP Structural Engineers

SPEAKER: Daniel Zepeda, SE, Principal, Degenkolb

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



Robert "Bob" Lyons
President 2017-2018

SEAOSC 2017-2018 Board

President: Robert "Bob" Lyons, SE

President-Elect:

Mehran Pourzanjani, SE

Treasurer: Kenneth O'Dell, SE

Past-President: Jeff Ellis, SE

Directors:

Donny Harris, SE

Jackie Vinkler, SE

Josh Gebelein, SE

Massoud Abolhoda, SE

Matt Barnard, SE

Patti Harburg-Petrich, SE

Sandra Biddulph, SE

Todd Brown, SE

Truong Huynh, PE

President's Message

Greetings!

We had a great January and look forward to several exciting events coming in February.

We started 2018 with an exciting and well attended dinner presentation. We hosted a joint SEAOSC and AIA dinner meeting on January 10th, featuring an inside look at the Disney theme park design process, how these unique structures came to be, and highlighted lessons learned that can be applied by creative design teams to enhance the aesthetic of any project. The presenter was Kent R. Estes, Principal Structural Engineer from Walt Disney Imagineering. This event had about 150 registrations and based on an informal survey following the presentation, and as evidenced by lengthy post-presentation informal discussions, everyone found the presentation interesting and engaging.

The [February meeting](#) in LA begins at 3:30 PM with a Career Fair for SEAOSC members and students from Southern California universities. Structural engineering firms from Southern California have the opportunity to meet with University students and SEAOSC members seeking internship and full time positions. STUDENTS ATTEND FREE!

The Career fair will be followed by presentation of scholarship to local students. The SEAOSC Foundation received sufficient scholarship donations in the last couple of months to award scholarships to eight Southern California Students. Scholarships awarded include the David and Margaret Narver Scholarship made possible by a generous donation by the Narver Family. Scholarship awards are merit based.

The February dinner meeting will culminate with an exciting discussion by Ken O'Dell and Daniel Zepeda on the SEAOSC Safer Cities Reconnaissance Team. They will present their perspectives on the post-earthquake investigation of the September 19, 2017 Mexico City 7.1 magnitude earthquake. The recon team included SEAOSC members Daniel Zepeda, Ken O'Dell, Marty Hudson, Dion Marriott, Russell McLellan and Raul Jimenez.

Daily, real-time reports sent by the Recon team with a final summary are posted on the [Safer Cities](#) webpage, along with information on other SEAOSC activities promoting community resilience.

You should be aware of Assembly Bill No. 1857 (AB 1857), which was introduced in the California Legislature by Assembly Member Adrin Nazarian on January 10, 2018. This proposed legislation addresses performance standards for earthquake safety in new buildings.

SEAOSC 2017-2018 Board

President: Robert "Bob" Lyons,
SE

President-Elect:

Mehran Pourzanjani, SE

Treasurer: Kenneth O'Dell, SE

Past-President: Jeff Ellis, SE

Directors:

Donny Harris, SE

Jackie Vinkler, SE

Josh Gebelein, SE

Massoud Abolhoda, SE

Matt Barnard, SE

Patti Harburg-Petrich, SE

Sandra Biddulph, SE

Todd Brown, SE

Truong Huynh, PE

President's Message

Specifically, this bill requires "engineered buildings to be built to an immediate occupancy standard regarding seismic safety. Until an immediate occupancy standard is adopted, the [California Building Standards] commission shall adopt ... a strength and stiffness standard for engineered buildings that is one and one-half times the level of the current standard."

The SEAOC Board voted on and approved a motion to support AB 1857, with amendments to improve the technical language in the bill. In addition, SEAOC voted to support legislative efforts to improve the building code to achieve a performance objective greater than life safety. SEAOC Legislative Committee will remain involved with this bill and future bills and report progress to the SEAOC Board. You may expect updates in future newsletters.

I wish to thank SEAONC president Taryn Williams for providing a summary of AB 1857.

On February 2, 2018, the Education Committee, chaired by Matthew Michnewich, presented the Winter Education program called [Steel Design - Code Updates and More](#). This was a full day program with six practical and useful presentations related steel design.

On January 23, 2018, SEAOSC presented a webinar on the topic of architecturally exposed structural steel. Presentation was made by Lorena Arce, PE, Structural Steel Specialist with AISC. Ms. Arce explained how and when to implement the AESS Category Method to effectively communicate the desired appearance for architecturally exposed structural steel in a format that contractors can understand.

Upcoming Events

March 7, 2018 Dinner meeting in LA

ALL engineers need to attend this dinner meeting. The March dinner meeting will feature a panel of distinguished contractors speaking on ways to leverage the contractor-engineer relationship and how to improve communication and coordination between us. Our panelists come from various sectors, including commercial, healthcare, residential, and retrofit/existing building. Engineers at any stage and from different sectors will learn beneficial perspectives and ideas for improved construction documents as well as do's and don'ts at various project stages. These lessons will provide the engineer with practical knowledge as they continue on their career path or may be shared with engineers they are mentoring. More details will be posted on the SEAOSC website as they become available.

SEAOSC 2017-2018 Board

President: Robert "Bob" Lyons,
SE

President-Elect:

Mehran Pourzanjani, SE

Treasurer: Kenneth O'Dell, SE

Past-President: Jeff Ellis, SE

Directors:

Donny Harris, SE

Jackie Vinkler, SE

Josh Gebelein, SE

Massoud Abolhoda, SE

Matt Barnard, SE

Patti Harburg-Petrich, SE

Sandra Biddulph, SE

Todd Brown, SE

Truong Huynh, PE

President's Message

Our distinguished Panelists - Charlie Mallers of Matt Construction, Don Shipley of McCormick Construction Company, Lucy Villanueva of DPR Construction, Steven Saunders of Saunders Construction. Tori Wigle of DPR Construction will moderate the panel.

2018 SEAOC Convention

Save the date - The 2018 Annual Convention to be held at the JW Marriott Spa and Resort in Palm Desert, California, September 12 through the 15, 2018.

The Structural Engineers Association of California issued a [Call for Papers](#). For more information, visit the SEOC website. SEAOSC is the member organization responsible for the 2018 Convention.

The main theme of "Innovation & Resilience: Strengthening the Past, Building the Future" has been tentatively chosen for the Technical Program. The emphasis is on resiliency and structural design of low to high-rise buildings and other structures for both new building design as well as retrofit of existing buildings for natural hazards

Earthquake Anniversaries

[1994 Northridge](#) 6.7 Mw Earthquake (January 17, 1994 4:30 am)

[1971 San Fernando](#) 6.5 Mw Earthquake (February 9, 1971 6:00 am)

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



Bob Lyons, SE
President

Member Spotlight



Keslyn Huntington, EIT
Project Engineer
Buehler & Buehler
Structural Engineers, Inc.



Nils Fox
Senior Project Manager
Sika Corporation

Email: khuntington@bbse.com

Member Since: 2017

Current SEAOSC Role: I currently don't have a role but would like discover one since I am new to the working professional world.

Favorite Movie: The Princess Bride.

Proudest Accomplishment: Graduating from the ARCE program at Cal Poly San Luis Obispo in 4 years.

Childhood Ambition: To become a math teacher.

First Job: Prepared pizza at Blaze pizza. I was a dough press master.

Why Join SEAOSC: I joined SEAOSC because I was heavily involved with my SEAOC student chapter at school and wanted to be a part of a group filled with successful and intelligent engineers. SEAOSC provides an opportunity for me to meet new people in the industry and learn from their work experience.

Email: fox.nils@us.sika.com

Member Since: 1998

Current SEAOSC Role: Membership Committee volunteer.

Favorite Movie: That's a tough one there's so many good ones...maybe the original "Die Hard."

Proudest Accomplishment: Being very involved in the lives of my kids. They are life's greatest gift.

Childhood Ambition: To be a pro athlete.

First Job: Paper route.

Why Join SEAOSC: It's an organization of people that want to make a positive contribution to the industry and life! I remember Janah Risha talking about how personally he took it that the structures he designs are safe for people, like my family. That really hit home with me. I've found everyone in the SEAOSC membership to be people that care.

Welcome New Members

Member SE

- ◇ Alvaro Salto, AS-Engineering
- ◇ Owen Gould, Owen R. Gould, PE

Member

- ◇ Charmie Huynh, City of Los Angeles, Department of Building and Safety
- ◇ Hossam Fahmy, DLR Group

Young Associate

- ◇ Amanda Yeager, MHP, Inc. Structural Engineers
- ◇ Brian Miller, Insight Structural Engineers

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 | Strengthening our Cities Summit



Every year, the SEAOSC Strengthening Our Cities Summit brings together leaders in Southern California to get resources and tools to better address the risks of earthquakes to our buildings and how to mitigate losses. 2017 was no exception.

Focused on the theme of “The Value Of Resilient Buildings,” this year’s two-day summit on November 7th & 8th brought together the structural engineering community along with stakeholders from the financial sector, those supporting decisions made by building owners, and city leaders to tackle why enhanced seismic design and retrofit of buildings is needed, how to achieve more resilient buildings, and how to promote these mitigating actions to create a resilient city.

The Summit featured two keynotes: Day One featured Chris Poland on “Resilient Structures and Resilient Communities,” and Day Two had Rob Smith & Jason Krolicki on the topic of “Who the heck wants resilient buildings anyways?” featuring the 181 Fremont Tower project in San Francisco.

Day One covered topics focused on the technical issues of resilient design, including topics like *Understanding Building Value and Cost Through Life Cycle Analysis*, *How Structural Decisions Affect Building Cost*, *Earthquake Risk and Building Cost*, and *How to Get the Most out of Your Design Team*. Day Two focused on more general topics like *How Better Design Can Save You Money*, *What can you learn from a PML Study*, and *Financing Building Improvements*. There were conversations on both days about rating systems, the future of resilience in the Los Angeles, and how we move policy forward on these important topics. The full schedule and speaker line-up can be reviewed [here](#).



SEAOSC News | Strengthening our Cities Summit

Another Summit highlight was the presentation of key learnings from SEAOSC Safer Cities reconnaissance team from their visit to Mexico after the September 2017 Mexico City earthquake, as well as 360-degree views of their inspections in the exhibit area.

The 2017 SEAOSC Strengthening Our Cities Summit: the Value of Resilient Buildings was presented by Structural Technologies, and cocharied by David Williams and Saeed Fathali. Over 200 attendees participated at the Cathedral Conference Center and [40 expert speakers](#) presented from building owners to city officials to developers to insurance and financing experts. Attendees gave feedback stating that they gained “exposure to engineering topics that normally would not come up in daily practice” and that “just about every session was helpful in gaining a better and broader understanding of the concepts” presented.

About the Strengthening Our Cities Summit

Seismic safety is a rapidly growing concern. As awareness of earthquake hazards grows, SoCal policy makers are becoming increasingly vigilant of the need of seismic regulations. The Summit helps in developing consensus on these issues by bringing together all of the stakeholders. The attendees include community and business leaders, government building officials, building design professionals, and construction industry leaders.

- Provide the audience with a current methodologies and tools used by the financial and insurance industries to estimate the risk associated with seismic deficiencies of a building, and to perform cost-benefit analyses of enhanced seismic design/retrofit to achieve a resilient seismic response
- Create interdisciplinary interaction opportunities during the sessions to allow engineers and finance/insurance professionals hear from each other on how they can support the other side to help building owners make best informed decisions on the value they buy by paying for a resilient design.
- Update the audience on building ordinances in Los Angeles and neighboring cities: what has been done, what we have learned so far, and what is next.



SEAOSC News | SEAOSC SEAOC Convention Stipend Winners

Reflections from our 2017 Stipend Winners

Matthew Michnewich, John A. Martin & Associates

Attending the 2017 SEAOC Convention was an amazing experience and is one of the highlights of my structural engineering career so far. The convention overall was a great way to learn about the state of the industry, celebrate structural engineering accomplishments, and connect with fellow structural engineers. Attending a plethora of technical sessions, I learned about state-of-the-art engineering works, such as the Apple Park precast system and the world's tallest wood building, along with new updates to various codes and standards, and lessons learned from a variety of topics, including performance of stair systems, design of stadiums, and seismic design of steel. Beyond the technical sessions, I enjoyed numerous social events and had extra opportunities specifically for young members. From a brewery tour to the President's Cup, these events were a fantastic way to make friends and develop fellowship within the structural engineering industry. The 2017 SEAOC Convention was a great reminder that we are a community of engineers with common goals, and we can achieve those goals when we work together and share our knowledge and experiences.

Sinhui Chang, P.E., Nabih Youssef Structural Engineers

I would like to thank SEAOSC for granting a great opportunity for me to attend my first SEAOC Convention. I took away many technical and inspiring lessons from every session that I had attended, and I am grateful of new relationships built with fellow engineers across the state during network. After meeting with various leaders in SEAOC, it encourages me to keep pursuing to shape better community around us through our work. It seems as though we, as structural engineers, have much to grow in enhancing the lives of building occupants, but the Convention reminded me that we are in this together and that we can rely on each other to strengthen our contribution to the society.

Alexander Talebi, LPA Inc.

The experience I was fortunate to have at this year's 2017 SEAOSC Convention in San Diego was invaluable to my growth as a structural engineer. The SEAOSC Convention had a myriad of opportunities to expand my knowledge and understanding on structural engineering topics; from resilient design to performance based design and many more outstanding topics throughout the conference. I was able to attend most of the seminars and technical talks throughout the conference and had a well immersed experience. Additionally, not only did the conference offer a number of technical talks, I was also able to attend some of the fantastic events hosted by a number of different companies, such as the Ray W. Clough Honorary Dinner at Coastera, and the Excellence in Structural Engineering Awards Lunch. At these social events, it did feel like a very informal networking event where I was able to meet a number of fellow colleagues, professionals and students from different companies and areas around southern California. In addition, I had a chance to also attend a couple of the San Diego tours that the convention had to offer, which was unique because I was able to explore and fully immerse myself in the San Diego atmosphere and culture. The 2017 SEAOSC Convention had a little of everything to offer, from technical seminars, to informal networking opportunities, to a little fun and relaxation enjoying the San Diego atmosphere. The 2017 SEAOSC Convention was something I will never forget in my career, and will be something that I look forward to attending each year.

SEAOSC News | What's New in the Store

Want to help raise the visibility of our profession and support your Association? Order a SEAOSC Safer Cities shirt today! Help us work to increase awareness of the structural engineering profession, positively impact our industry, and strengthen our communities!

Order Here: <https://seaosc.org/Store>



SEAOSC Safer Cities Royal Blue Polo Shirt—\$35.00

Port Authority, 60% polyester and 40% cotton



SEAOSC SEAOSC Safer Cities Royal Blue T-Shirt—\$15.00

Port & Company, 65% polyester and 35% cotton

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.

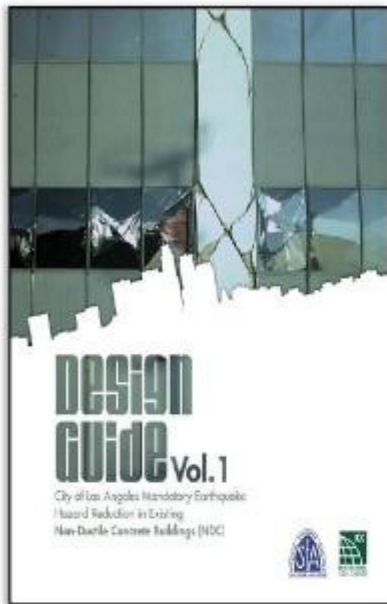
[Click Here](#) to learn more.

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

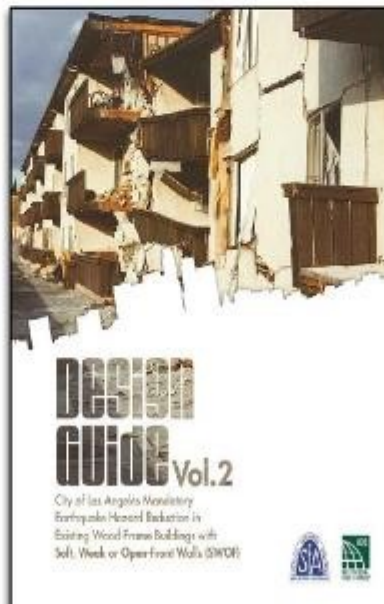
[Click Here to Purchase](#)

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 | Professional Practices Committee

4SB-496: A Major Step Forward for Design Professional Indemnities in California

January 17, 2018

Governor Jerry Brown recently signed into law Senate Bill 496 (Cannella) representing a major step forward in reducing the uninsurable burden of indemnity provisions and the duty to defend for most public and private contracts signed by design professionals in California.

Historically, indemnity provisions in design professional agreements have created insurability issues as professional liability insurers are unwilling to provide coverage for the duty to defend or liabilities not attributable to negligence.

SB-496 modifies Civil Code section 2782.8, adding protections to private contracts entered into by design professionals after January 1, 2018. Importantly, SB-496 limits the “duty to defend” to the comparative fault of the professional in private and public contracts. Civil Code section 2782.8 previously applied to public contracts entered into by design professionals with public agencies, excluding state agencies as defined in the statute. SB-496 places private contracts and public contracts with non-state agencies on equal footing.

The practical implications of SB-496 are extremely beneficial to design professionals, especially those working primarily in the private sector. For all private contracts entered into by a design professional prior to January 1, 2018 (i.e., those contracts without the protections of SB-496) that contain a provision requiring the professional to indemnify and/or defend their client, the design professional could have to pay for all the their client’s attorney’ fees and costs by virtue of being sued, even if the professional was ultimately found negligent free by the trier of fact. For private and applicable public contracts entered into after January 1, 2018, with the protections of SB-496, the design professional would only be liable for costs to the percentage they were found at fault. If found 0% at fault, the professional would not be responsible for any of their client’s attorneys’ fees or costs.

SB-496 does not address the up-front (“immediate”) duty to defend demands and therefore needs to be the subject of careful negotiation. It is hopeful that with this new law, contract negotiations will be more productive relative to this issue. The best negotiation result would be a contractual declaration that the design professional has no obligation to defend. A fallback position could be contract language clarifying a design professional’s defense obligation applies only after the fact, such as:

Consultant has no obligation to pay for any of the indemnitees’ defense related cost prior to a final determination of liability or pay any amount that exceeds Consultant’s finally determined percentage of liability based upon the comparative fault of the Consultant.

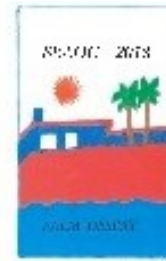
SB-496 is a big step along the road to securing fair allocation of risk between design professionals and their clients. Design professionals should be optimistic that the passage of SB-496 will ultimately reduce design professional’s future uninsurable risk. The passage of SB-496 is a result of the efforts of Senator Anthony Cannella (the Legislature’s only Engineer!), ACEC, AIACC, and your SEAOC representatives.

This material is provided for informational purposes only and should not be considered legal advice. You should confer with a qualified legal or insurance professional before taking any action on the information provided in this article that could have important legal consequences.

Industry News | SEAOC News



SECOND CALL FOR PAPERS 2018 SEAOC CONVENTION



The **Structural Engineers Association of California** issues this Call for Papers to be presented at the 2018 Annual Convention to be held at the JW Marriot Spa and Resort in Palm Desert, California, September 12th-14th, 2018

The theme of "**Innovation & Resilience: Strengthening the Past, Building the Future**" has been chosen for the Technical Program. The emphasis is on resiliency and structural design of buildings and other structures for both new building design as well as retrofit of existing buildings for natural hazards. Subject areas include but are not limited to:

- Building codes and standards
- Cities & Politics (City Ordinances, Future codes/legislation, etc.)
- Healthcare
- Business and Economic Impacts
- Legal
- Use of Innovation for better resilience (base isolation, dampers, BRB's, etc.)

Papers presented at the SEAOC Convention will be published in the 2018 SEAOC PROCEEDINGS. All speakers presenting papers at the convention are expected to use commercially available computer presentation software.

Interested parties should submit brief abstracts (300 words or less) of their papers on or before March 16, 2018 via the Call for Abstracts form by clicking [here](#).

The Technical Program Committee will review the abstracts; authors will be notified by April 27, 2018 regarding acceptance. Final Papers by selected authors shall be submitted by June 29, 2018. Detailed instructions for the complete manuscripts will be sent to prospective authors with the acceptance notification.

If you have any questions please email SEAOC2018@gmail.com.

We look forward to receiving your abstracts, and hope to see you in Palm Desert in September.

Thank you!
Sincerely,

The 2018 SEAOC Convention Technical Committee
Laura Basualdo, Reza Dashtpeyma, Alfred Tran
<http://2018.seaoc.org/>



Industry News | 2018 SEAOC Convention

SEAOC CONVENTION AT THE JW MARRIOTT RESORT & SPA

We will be holding our 2018 Convention at the lovely [JW Marriott Resort & Spa in Palm Desert](#).



CONTACT

CONTACT OUR EXHIBITOR CHAIRPERSON BY EMAILING
EXHIBITORS@2018.SEAOC.ORG

SEAOSC Events



Webinar—Design of Concrete Diaphragm and Collectors – Based on Seismic Design Manual, Volume 3, Example 6

Monday, February 26 —12:00pm-1:00pm

[Register Here](#)

Seismic Design Manual Volume 3, Example 6 “Design of Concrete Diaphragm and Collector” is a design example for a four-story concrete building with a large opening in the center of the floor diaphragm. Diaphragms are horizontal or sloped systems acting to transfer lateral forces to the vertical lateral-load-resisting system (LLRS). The purpose of the diaphragm is to (a) transfer inertial mass to the vertical LLRS, (b) provide restraint to gravity as well as the LLRS from buckling and (c) facilitate connection of various component of the vertical LLRS with appropriate strength and stiffness so that the building responds as intended in design. This example demonstrates a simplified approach to finding the demands on the diaphragm (using a rigid diaphragm assumption) and collector based on the IBC 2015 and referenced standard ACI 318-14. Design of diaphragm chords and collector and detailing of these elements is also included in this example. The diaphragm demands obtained from a simplified approach is compared with the demands obtained by modeling the diaphragm as a semi-rigid element using shell elements. Conclusions based on the results will also be presented at the end.



Date:
Monday, February 26, 2018

Time:
12:00pm – 1:00pm

Cost:
Members: \$100
Non-Member: \$175

For more information,
visit seaosc.org

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

WEBINAR:

Design of Concrete Diaphragm and Collectors – Based on Seismic Design Manual, Volume 3, Example 6

Monday, February 26, 2018

12:00pm-1:00pm

[Register Here](#)

PRESENTATION:

Seismic Design Manual Volume 3, Example 6 "Design of Concrete Diaphragm and Collector" is a design example for a four-story concrete building with a large opening in the center of the floor diaphragm. Diaphragms are horizontal or sloped systems acting to transfer lateral forces to the vertical lateral-load-resisting system (LLRS). The purpose of the diaphragm is to (a) transfer inertial mass to the vertical LLRS, (b) provide restraint to gravity as well as the LLRS from buckling and (c) facilitate connection of various component of the vertical LLRS with appropriate strength and stiffness so that the building responds as intended in design. This example demonstrates a simplified approach to finding the demands on the diaphragm (using a rigid diaphragm assumption) and collector based on the IBC 2015 and referenced standard ACI 318-14. Design of diaphragm chords and collector and detailing of these elements is also included in this example. The diaphragm demands obtained from a simplified approach is compared with the demands obtained by modeling the diaphragm as a semi-rigid element using shell elements. Conclusions based on the results will also be presented at the end.

PRESENTER

Badri K. Prasad, P.E., S.E.

Project Executive, IMEG Inc.



Mr. Prasad has over 28 years of experience leading design teams for the structural engineering of major new buildings, including high rise structures, healthcare facilities, courts, correctional facilities, airports, schools, and seismic retrofits. His areas of expertise include the structural design of complex buildings of all types and materials, seismic rehabilitation of existing buildings, design execution, and project management. Mr. Prasad has expertise with mixed construction types and materials, and is experienced with

performance based engineering. He is a registered Structural Engineer in California and also a registered Professional Engineer in Washington State. He has published and presented papers at several seminars on BRBF systems and Base-isolation systems. He is also one of the authors of two Design Guides for Concrete Diaphragm and Collectors, published by NCSEA and ICC. Mr. Prasad works with IMEG Inc. He holds the title of Project Executive and manages the Walnut Creek Office in the Bay Area.

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.

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 opportunities on the website.

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



Holmes Structures—Structural Engineers

Holmes Structures is a California structural engineering firm, with offices in Los Angeles and San Francisco. We are part of the New Zealand based Holmes Group, with offices around the Pacific Rim. Holmes takes an imaginative and resourceful approach to projects, challenging established convention, and using cutting-edge technologies. If you are a person who pushes the boundaries – then we want you as part of our energetic and collaborative teams. We are seeking structural engineers with 5+ years design experience for our San Francisco and Los Angeles offices. Job Requirements: 3+ years working in the field of structural engineering; B.S. and/or M.S. in Civil / Structural Engineering; Licensed Professional Engineer (PE) in California; Seismic design experience or education, Computer software skills: Advanced MS Excel, Intermediate ETABS, SAP, Risa (or equivalent); Sound technical skills: understands structural engineering design principles.

Send your resume with cover letter to hr@holmesstructures.com



TKJ Structural Engineering—Structural Engineer

TKJ Structural Engineering is seeking an experienced engineer to join our team. The position requires 1-5 years of experience, and offers opportunities for design and consulting on a wide variety of project types. Applicants must be self-motivated and organized, with excellent time-management and communication skills. A PE or SE license and wood design experience are preferred.

If you meet these requirements, and are interested in joining our young, growing firm, please send your resume w/ cover letter to career@tkjse.com.



Buehler & Buehler Structural Engineers, Inc.

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.

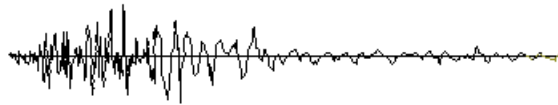
We are looking for both Senior and Mid-Level Structural Engineers for our LA office. Senior Structural Engineers should have their California S.E. with 15+ years of structural design and analysis experience in a broad range of project types, experience managing projects and strong client relationships. 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.

Classified Ads

GROSSMAN & SPEER ASSOCIATES, INC.

STRUCTURAL ENGINEERS



www.grossmanspeer.com



Seeking licensed CE or SE. Excellent benefits, including 401(k) and profit sharing.

Send resume to Loyd Speer at:

Email: lspeer@grossmanspeer.com

Telephone: (818) 507-1020

Fax: (818) 507-1556

BOARD OF DIRECTORS

July 1, 2017 – June 30, 2018

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

President

Robert "Bob" Lyons, S.E.^{1,2}
 blyons@risha.com
 818-729-9777

President-Elect

Mehran Pouzanzani, S.E.^{1,2}
 mehran@saifulbouquet.com
 625-304-2616

Treasurer

Ken O'Dell, S.E.²
 kodell@mhps.com
 562-985-3200

Immediate Past President

Jeff Ellis, S.E.^{1,2}
 jellis@strongtie.com
 714-738-2029

(1 Delegate to SEAOC
 (2 Member of SEAOSC Exec. Cmte.)

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@dci-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
 seaoscd@seaosc.org



Structural Engineers Association OF SOUTHERN CALIFORNIA

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

Committees	Chair(s)	Phone	Email
Membership	Kerry Regan	323-536-2363	kregan@bbse.com
	Christian Cody	323-907-2523	christian.cody@hilti.com
	Kevin O'Connell	213-271-1934	kdoconnell@sgh.com
Subcmte: Golf Tourn.	Michelle Kam-Biron	805-498-4864	mkambiron@awc.org
Subcmte: Women in SE			
Younger Members	Noya Wang	213-271-1939	nanwang@sgh.com
	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 Ciorte	213-897-0314	michael.ciorte@dgs.ca.gov
	Colin Kumabe	562-221-9418	ctkumabe@gmail.com
Seismology	Josh Gebelein	213-596-4540	jgebelein@bjsce.com
	Subcmte: Steel Bldgs	Ashwani Dhalwala	310-828-1422
Existing Buildings	Daniel Zepeda	213-596-5000	dzepeda@degenkolb.com
Disaster Emergency Svcs.	Doug Litchfield	909-392-5353	dlitchfield@rmwdh20.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.