

Structural Engineers Association OF SOUTHERN CALIFORNIA



You and a guest are invited to SEAOSC's Annual Holiday Event



Join Us for our SEAOSC Annual Holiday Dinner! Cocktails, Dinner & "50/50" Raffle

Raffle to benefit the upcoming Students Night scholarships

Social Hour: 6–7pm | Dinner: 7pm | Hosted Bar Attire: Holiday Semi-Formal \$85 per General Member/Guest | \$35 per Young Professional/Guest* \$105 per General Non-Member/Guest *Parking Included* * Associate, Young Associate & Student Members of SEAOSC. Young Professionals discount sponsored by CSI.

Special Thanks to our Exclusive Sponsor!



Registration Open Now!

Advanced reservations required by Friday, December 2, 2016

seaosc.org | (562) 908-6131 | seaosc@seaosc.org

Have you Renewed Your Membership?

Click Here to Renew Now!

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Don't have your firm miss out on the public's increasing inquiries for engineering services and renew or register to use SEAOSC's online Engineer Finder! <u>Check it out Here!</u>



December 2016





The Summit: Partnership, Performance & Policy! SEAOSC just hosted our two day annual <u>SEAOSC</u>. <u>Strengthening Our Cities Summit</u> in downtown Los Angeles. It's hard to believe that this is the 6th year of this educational and outreach event and it's great to see the forum it provides for various community stakeholders to join us for important discussions on how to make our communities safer, stronger, and more resilient. The Summit's theme this year was Partnerships, Performance and Policy as it's recognized that well thought out and effective strategies are usually born out of good partnerships, it's important to identify the goals or performance desired, and practical and achievable policy can better be developed and implemented with partners and performance targets.

Structural engineers make up a special part of our community. At the least, we ensure that the bones of the buildings are strong enough to protect public safety. And within our diverse profession, we each have a special talent and a role to play. Some specialize in areas such as steel, concrete, and wood and work on commercial, residential, and industrial projects. Also some are in the public or private sectors and some lead or work for large and small firms, and some work for industry. How great is that? A talented and diverse group who have helped build and strengthen our communities and have a passion for doing so. We also have non-engineers that are members and we're certainly thankful for their support and insight on the team. All of these various specialties represent different but essential voices in a chorus, having much more depth and strength than if it was just one voice.

And what a challenging, but exciting time we're living in! We've seen communities survive the many disasters that have happened recently, and then see them struggle to regain their footing and rebuild their economy as well as deal with the negative environmental impact. Many of us have gone to post-earthquake disaster sites and heard the public wonder why buildings are red-tagged when they were built to the code, and we know the answer, but the public has a different perception that we need to better inform. Now our communities are talking about not

Jeff Ellis, SE

only building or strengthening their buildings to survive, but how to do so to recover more quickly and improve the resiliency and sustainability of our built environment. Now that's a discussion that we're ready for with the many improved and new design and communication tools we have regarding building performance and costs associated with different decisions.

We've also seen the city of Los Angeles request input from our association in the development of a mandatory retrofit ordinance and then implement it. Now other cities are asking for our input on the development of retrofit ordinances for their communities. Additionally, we've engaged other organizations about what it takes and approximate costs to strengthen buildings and to build better as well as discuss the benefits to a community to have programs such as a Back to Business Program.

We live in a special time in which we have unparalleled global interconnectedness making communities more aware of major disasters and the fact that it takes way too long to recover, the toll is much greater than it need be, and the cost to do better is not much more. Tools and methodologies continue to evolve to better evaluate and communicate seismic risk and mitigation solutions. These facts have helped to motivate stakeholders in communities to come together to discuss potential, practical and prioritized solutions and strategies.

The first day of the Summit was focused on the technical aspects of building stronger more resilient cities. We heard from experts throughout the day on topics including seismic risk communication, practical applications of performance based design, and the SEAOSC soft, weak and open front wood building and non-ductile concrete building design guides. SEAOSC provided members attending the Summit with free printed copies of these retrofit design guides as a membership benefit. Note that the retrofit design guides will be presented at our <u>December webinar</u> as

well as at our Winter Education Program on January 20th and 27th. One of the discussions on this day was that performance based design has often been used to find a more efficient solution to meet the code life-safety minimum and how resilience based design goes beyond code minimum.

The second day of the Summit built on the discussions of the first day with outside partners and city leaders as we released our pioneering Safer Cities Survey, in partnership with the Dr. Lucy Jones Center for Science and Society. This Survey informs where we currently are with regard to understanding the type and number of vulnerable buildings in Southern California through an inventory process, the implementation of strategies to mitigate the risk, and programs to decrease recovery time, such as a back-to-business program. We also heard about advocating successfully for seismic safety locally and statewide; the benefits of being more proactive than reactive; how policy can create safer cities; and how we got to where we are today and how we can work together to improve our cities strength and resiliency. It was a great day of insight and dialog.

Each of us as engineers and structural experts has a role in advancing the safety of our built environment. As was discussed at the Summit, an engineer's understanding of building performance is relied upon by policy-makers, building owners, and developers. We have a responsibility to help guide them to better decisions, and SEAOSC is working to provide tools to our community of engineers so we may be drivers in these conversation and actions.

A few things we can all do to help strengthen and improve the resilience of our communities:

- Speak consistently on topics such as seismic risk, building vulnerability, seismic mitigation solutions, building performance, and back to business programs. This will help reduce confusion to better ensure action is taken.
- Join SEAOSC and engage fellow engineers in meetings, education events, and committees to support and increase the dialog and help develop innovative and cost-effective solutions meeting the desired objective. We can do so much more together than individually.
- Participate in the SEAOSC "<u>Find An Engineer</u>" website service as it's being used more frequently by the public and jurisdictions as they look for engineers for their projects.

- 4. Assist in SEAOSC advisory efforts, such as our City Advisory Program, which provides a jurisdiction an objective review of structural ordinances and programs they've developed with their contracted structural engineer.
- Participate in SEAOSC outreach efforts, such as assisting in formal efforts to engage others in our community to help increase understanding, solutions and policies to improve our existing building stock and decrease recovery time after an earthquake.

I would like to give a big thank you to the Summit Co-Chairs, Annie Kao and David Williams, and to the Summit Committee as they worked extremely hard to create a great event, which expanded on the education as well as the policy conversations. It takes talent, passion and persistence to plan and implement such a successful event. I'd also like to thank all the speakers, moderators and panelists as they graciously gave of their time and expertise to provide valuable insight and help inspire potential solutions for making our communities safer and more resilient. Also important to the success of the Summit is the support of our Sponsors. We thank all our sponsors for supporting these important conversations.

What an exciting time! Together with our diversity and expertise, we can be more in control of our collective destiny and can have a more comprehensive and amplified voice for a greater impact improving the safety and resilience of our communities.

I wanted to end with a quick reminder about our next upcoming event. Our Membership Committee, led by Co-Chairs Kerry Regan and Christian Cody, have been working hard planning our annual <u>Holiday Event</u>, which is on Wednesday December 7th starting at 6 pm. We'll be returning to the top level of Parkers Lighthouse in Long Beach, which provides a magnificent view out across the water of the Queen Mary. We're grateful to CSI for sponsoring this event again this year! There will be a hosted bar and a 50/50 raffle to benefit our February Student Night scholarships. I hope to see everyone at this fun and festive night. May you all have a wonderful holiday season with your family and friends!

Allis

Jeff Ellis, SE - SEAOSC President

MEMBER SPOTLIGHT



Lorena Arce

Regional Engineer, American Institute of Steel Construction Member Since: 2006 arce@aisc.org

Current SEAOSC Role: Director, Education Committee Liaison Favorite Movie: Love Actually Proudest Accomplishment: Becoming an Engineer Childhood Ambition: To start up my Dad's old construction company: Arce Construction. First Job: Telemarketing (YUK! That only lasted 4 days) Why Join SEAOSC: To be part of a movement: My involvement in SEAOSC today is deeply rooted in my desire to give back to a community that has given me so much personally and professionally. I love the thought that I could help shape the future of the built environment, and specifically structural engineering. I cannot do it alone, and so I align myself with great minds with the ideal that together, we can make a difference.



Daniel Fox, SE

Project Manager, MHP Structural Engineers Member Since: 2006 <u>dfox@mhpse.com</u>

Current SEAOSC Role: SEAOSC Chair, Education Committee Favorite Movie: Office Space Proudest Accomplishment: Surviving the PE and SE exams Childhood Ambition: Professional baseball player.... Still working on it. First Job: Bicycle mechanic/sales at Copeland's Sports Why Join SEAOSC: Make an impact on your profession and the structural engineering community, learn from others to better yourself as an engineer, and meet and network with other members of the community.

SEAOSC SEAOC Convention Stipend Winners



Maria Mohammed, P.E.

Design Engineer, Structural Focus

As a young engineer, I found the 2016 SEAOC Convention to be beneficial in ways that I hadn't originally anticipated. The technical presentations were very educational in introducing new and innovative ways of solving engineering challenges, and the social events were full of networking opportunities with experienced engineers that were beneficial for a young engineer like myself. The young member events especially brought together a broad group of experienced engineers as mentors to share their experiences with young engineers. It was great to hear about the challenges these mentors faced as young engineers and how they overcame those challenges to be where they are today. The young member events also gave me the opportunity to meet and share experiences with other young engineers from SEAOC member organizations. The SEAOC Convention is an event that I would definitely recommend for other young engineers to attend. I see myself attending more SEAOC conventions in the future because of the education I received and the connections I made from the 2016 Convention, which will definitely help me become a better engineer.



Charlotte Insull

Graduate Engineer, Walter P. Moore

Thank you so much to the SEAOSC Board for supporting my attendance at the 2016 SEAOC State Convention in Maui, Hawaii this past October. As an engineer very early in my career, I very much appreciate the opportunity to attend so many relevant technical sessions and network with countless other California engineers.

My favorite session of the Convention was the Younger Member Roundtable: groups of five or six younger members were seated with one SEAOC mentor, and the mentors rotated around the room, visiting all the tables for about 10 minutes each. We were able to ask questions and learn about each mentor and how they got to where they are in their careers. As a young engineer with little experience, it was immensely helpful to hear different perspectives, words of encouragement, and more about other firms in the industry. I highly encourage other younger members to consider attending future state conventions. The Younger Member Roundtable session, in addition to all the technical sessions, the exhibit hall, and the networking opportunities, makes it an invaluable event. Thank you SEAOSC for providing me with a travel stipend and allowing me to attend my first SEAOC Convention; I had a wonderful experience. I would not have been able to participate without your support!

WELCOME NEW MEMBERS!

Affiliate

Mo Mansouri, Kelar Pacific, San Diego

Associate

Grace Tsao Mase, Beyrep, Montrose Marvin Uveda, Cristmar Designs Inc., Lawndale Sonia Huynh, Lionakis, Stanton

Member

Ali Hajihashemi, Sunrun, Irvine Bret Rooks, Taylor & Syfan Consulting Engineers, San Luis Obispo Rouzbeh Afsharhasani, Safequake, Irvine

Member SE

Bill Shahbander, Penhall, Anaheim Peter Behnam, John Labib + Associates Structural Engineers, El Segundo

Young Associate

Cheng Song, Walter P Moore, Los Angeles Kylie Gonsalves, CSG Consulting, Orange Teresa Pham, The Vertex Companies, Inc., Irvine Valentino Rinaldi, Mike Surprenant and Associates, San Diego Xinwei Chen, Nabih Youssef Associates, Los Angeles

FIND AN ENGINEER

SEAOSC provides a 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.

We have received an increased number of the public requesting engineer referrals and we encourage our members to participate in this valuable service! The Member Services Search is a benefit opportunity of SEAOSC membership. Please contact the <u>SEAOSC office</u> for further information if you are interested in participating in the Member Services Search.

The public information on the Find An Engineer section on our website is listed below:

How do you find a Structural Engineer? Read our brochure here: <u>WHAT YOU NEED TO KNOW ABOUT STRUCTURAL</u> ENGINEERING

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.

Compile a list of prospects.

- Search the 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, SEAOCC, SEAOC, ASCE.

Confirm their State Registration.

- Visit the <u>State of California Board for Professional Engineers and Land Surveyors (BPELSG)</u> website and use the <u>Online License Look-up Database</u> 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 <u>Consumer Guide</u> published by BPELSG for additional information on selecting a qualifed 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.

SEAOSC ADVISES CITY OF BEVERLY HILLS REGARDING SEISMIC RETROFIT ORDINANCE

SEAOSC received yet another request to provide technical advice. In September of 2016, the City of Beverly Hills requested that SEAOSC review and provide technical advice on a potential seismic retrofit ordinance for Wood-Frame Buildings with Soft, Weak, or Open-Front Wall Lines (SWOF).

In response to the city's request and tight timeline, SEAOSC assembled a small targeted advisory task group to review the proposed ordinance. The goal of the group was to provide technical feedback based on their past experience and knowledge of current and upcoming codes and standards. The city will be reviewing the members advice and incorporating as many of the recommendations as possible considering the boundaries of the proposed seismic retrofit program. Members of the advisory task group included David Funk of John Labib + Associates, Jonathan Buckalew of Nabih Yousseff, and Michael Cochran of Thornton Tomasetti. Daniel Zepeda and Jeff Roi of Degenkolb Engineers acted as the consultant liaison between SEAOSC and the City of Beverly Hills. The city is in the process of finalizing their seismic retrofit ordinance and is expected to present it to their city council early next year.

SEAOSC is pleased to see that more cities are taking an active effort in reducing the seismic risk of their most vulnerable buildings. If any member of SEAOSC is interested in participating as an advisor in similar future efforts, please contact the <u>SEAOSC office</u> and express your interest.

EDUCATION COMMITTEE

The Education Committee, led by Chairperson Dan Fox, is very actively planning and organizing SEAOSC's monthly dinner and webinar presentations, the bi-yearly multi-day Education Events, and assisting in the planning of the Tri-Counties and Orange County dinner meeting presentations. Continuing education is especially important to our organization and our practice this year given the upcoming building code change and the recently passed Los Angeles mandatory seismic retrofit ordinance. Education events provide a place for members to share knowledge and learn from experts as well as from each other about the latest developments.

Over the course of the year, the committee is working on developing a guidelines and process document to better define the goals of the committee and the most efficient way to achieve them. Included in improving the process, the committee is focused on ways to increase event attendance, boost sponsorship, incorporate more audience interaction and feedback, and integrate more variety into the presentation topics. A main committee goal is to create a streamlined repeatable process starting with finding an event topic and speaker, advertising and promoting the event, followed by organizing the execution of the presentation, and encouraging audience feedback. The committee is looking to partner with other SEAOC member organizations to better promote events and provide valuable statewide continuing education that is current, relevant, and important to the field of structural engineering.

SEAOSC members who are interested in participating in committee efforts to make an impact on their Association should contact Dan Fox at dfox@mhpse.com. The committee meets weekly for 20 to 30 minutes on Fridays via conference call. Or to submit presentation ideas, please use the following link:

https://docs.google.com/forms/d/e/1FAIpQLScfmVItb_2ZbELfCU9DmXi4I0WXI6aOqRe1A4CFbXOZQUD4AQ/viewform? c=0&w=1



SEAOSC maintains an extensive committee structure of volunteer members developing and evaluating various structural engineering design philosophies and standards, as well as assisting building code officials in the development of building codes at the local, state and national levels.

For more information on SEAOSC Committees, visit the website here.



BUILDING CODES & STANDARDS COMMITTEE

CONTRIBUTE TO THE 2019 EDITION OF ACI 318-19

In an effort to keep the SEAOSC membership better informed, updates by the SEAOSC Building Codes and Standards Committee will provide information on the development process for many codes and standards, including the I-Codes, ASCE 7, ACI, AISC, AISI, AWC, etc. This month, the committee focused on the ACI 318-19 development process.

The most effective way to propose substantive technical changes to ACI 318-14, with the intent that the change be included in ACI 318-19, is to develop and submit your proposed change right now. The various subcommittees of ACI Committee 318, Structural Concrete Building Code, are presently in the process of development substantive technical code changes. The subcommittees typically initiate and develop the details for code change proposals. Any new proposed code change needs to reach the appropriate subcommittee before the end of the present calendar year (2016). This will allow the subcommittee to vet and further development the proposed code change, and then pass it on to the main committee before year end 2017. Yes, the code development process does take some calendar time! Here is the timeline for development of the 2019 edition of the ACI 318 code, as of this writing:

- Year end 2016: Suggestions for new code change proposals need to reach appropriate subcommittee.
- March 2017 at the ACI Spring Convention (Detroit, Michigan): Last practical subcommittee meeting to initiate new code change proposals within a subcommittee
- October 2017 at the ACI Fall Convention (Anaheim, California): Last practical subcommittee meeting for a subcommittee to finalize code change proposals to be sent to main committee
- October 2018: Near-final draft of ACI 318-19 Code begins ACI internal review
- January/ February 2019: Public comment period
- June 2019: ACI 318 19 formally published

It is presently anticipated that the ACI 318 Main Committee will need most of 2018 to consider and finalize the many code change proposals before ACI 318-19 is posted for public comment in early 2019. The various subcommittees need the year prior to initiate the change proposals.

If someone wishes to propose a substantive technical change, but proposer holds back on submitting until the public review comment period of Winter 2018/2019, the chance that the proposal will be effective for the 2019 code cycle are diminished. Substantive code change proposals received during the 2018/2019 public comment period, unless the change is clearly related to a life safety concern, might not receive consideration until the 2024 code cycle.

More information on the ACI 318-19 development process may be found at the ACI 318 portal, <u>http://www.concrete.org/ACI318</u>.

Proposed changes to code and standards have a better chance at success if they are vetted and supported by one or more organizations. So, participation in the SEAOSC Building Codes and Standards Committee to discuss issues increases the chance of success for a new proposals or opposition against proposals.

SEAOSC FOUNDATION

SEAOSC FOUNDATION

Do you know that in addition to the SEAOSC Association, there is a separate entity called the SEAOSC Foundation? The SEAOSC Foundation is a non-profit 501(c)(3) corporation and was started by some thoughtful SEAOSC members in 2007. The purpose of the Foundation is to advance the study of the scientific principles of structural engineering. The Foundation does this by sponsoring scientific research; providing tuition scholarships for students enrolled in higher education engineering programs and specializing in structural engineering; publishing the results of studies, papers, and other reports of importance and significance to structural engineers, and engaging in other activities in furtherance of the purposes of the Foundation.

The Foundation's Board of Directors includes: Kevin O'Connell, Chairman; Michelle Kam-Biron, Vice-Chairman; Jeff Crosier, Treasurer; Doug Thompson, Secretary, and Jeff Ellis, Director. Dianne Ochoa is the Executive Director. More information can be found on the Foundation website.

There is a renewed interest by those involved in the Foundation to make it something bigger than it has been in the past. One of the Foundation's first major activities is the 2017 SEAOSC Foundation Student Scholarships which will be award at the 2017 SEAOSC Student Scholarship Award Night on 1 February 2017. This annual event is one of SEAOSC biggest events of the year, and hope you will be able to participate, or better yet, sponsor the event or provide a donation towards the student scholarships. As a 501(c)(3) corporation, a portion of your donation to the SEAOSC Foundation may be tax deductible (consult with your tax advisor). Additional information on donating to the Foundation or sponsoring the scholarships can be found in this newsletter.

Be sure to keep an eye out for more information and future activities by the Foundation, and please contribute if you can, so that you can have an impact on the structural engineering profession.

Kevin O'Connell, S.E. SEAOSC Foundation Chairman





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: <u>foundation@seaosc.org</u>

SEAOSC Foundation Student Scholarship Donations

Dear Student Scholarship Supporter:

On Wednesday, February 1, 2017, the Structural Engineers Association of Southern California (SEAOSC) Foundation will award scholarships to outstanding students from universities in the Southern California area at the annual **2017 SEAOSC Student Scholarships Award Night**. Scholarship recipients in past years have gone on to become leaders in the Southern California structural engineering community, from managers of prominent structural engineering firms to leaders within SEAOSC and SEAOC. The scholarship awards are a tool for outstanding engineering students to further their education and pursue the challenging, but rewarding and impactful profession of structural engineering.

We cordially invite you and your firm to join us in contributing to the 2017 SEAOSC Foundation Scholarship Fund. Your generous contribution will support and motivate the development of talented and hard working structural engineering students.

The 2017 SEAOSC Foundation Scholarships will be awarded at Luminarias Restaurant in Monterey Park. The awards ceremony will be preceded by **SEAOSC's annual Structural Engineering Job Fair** for our student guests. In previous years, the job fair was attended by nearly two hundred students with more than fifteen structural engineering and construction industry related firms participating.

This year's sponsorship levels are listed below, each with the following benefits:

Summa Cum Laude Industry Sponsor: \$1,000+

- Booth at Job Fair
- 2 dinner tickets (company recognized via table tent on table)
- Receive resumes of participating students
- Recognized as a Summa Cum Laude sponsor
 - · With company logo in program book
 - \cdot $\;$ Two job opening announcements/ads in program book
 - · Company description in program book

Magna Cum Laude Industry Sponsor: \$500+

- Booth exhibit at Job Fair OR
- 2 dinner tickets (company recognized via table tent on table)
- Receive resumes of participating students
- Recognized as a Magna Cum Laude sponsor
 - With company name in program book
 - Two job opening announcements/ads in program book
 - · OR
 - Company description in program book

Cum Laude Industry Sponsor \$150+

- Recognized as a Cum Laude Sponsor in program book
- Receive resumes of participating students

Your contribution is greatly appreciated and will ensure the bright future of the structural engineering community. To register your sponsorship, please visit the website at <u>www.seaosc.org</u> or <u>click here</u> or make a check out to the SEAOSC Foundation and send to the SEAOSC office. The SEAOSC Foundation is a non-profit 501(c)3 charitable organization. A portion of your donation may be tax deductible; check with your tax advisor.

We thank you in advance for your contribution to support and encourage the future leaders in structural engineering. If you have any questions, please do not hesitate to get in touch with SEAOSC Younger Members Committee Co-Chair, Maria Mohammed, at <u>mmohammed@structuralfocus.com</u> at any time.

Sincerely,

Maria Mohammed, P.E. Noya Wang, P.E. SEAOSC Younger Members Committee Co-Chairs

December 2016

SEAOSC EVENTS

Webinar

S.W.O.F. & NON-DUCTILE CONCRETE LA ORDINANCES & DESIGN GUIDES OVERVIEW Tuesday, December 6, 2016 12:00pm-1:00pm

<u>Click Here to Register</u>

SEAOSC Women in Structural Engineering

WORKSHOP PRESENTATION SKILLS

Friday, December 2, 2016 9:30am-11:30am AON Building - 707 Wilshire Blvd. - Suite 2100 435 <u>Click Here to Register</u>

SEAOSC Annual Holiday Event

Wednesday, December 7, 2016 6:00pm Parker's Lighthouse 435 Shoreline Village Drive, Long Beach, CA, 90802 <u>Click Here to Register</u>

LA Dinner Meeting January 2017

CAL POLY POMONA, STUDENT RECREATION CENTER, CALIFORNIA Wednesday, January 4, 2017 5:30pm Click Here to Register

Winter Education Program

LA ORDINANCE AND THE 2016 CBC CODE AND STANDARD UPDATE Friday January 20th & 27th, 2017

8:30am-5:00pm Click Here to Register



Date: Tuesday, December 6, 2016

Time: 12:00pm – 1:00pm

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

For more Information, visit <u>seaosc.org</u>

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

WEBINAR: S.W.O.F. & NON-DUCTILE CONCRETE LA ORDINANCES & DESIGN GUIDES OVERVIEW

Tuesday, December 6, 2016

12:00pm-1:00pm

Register Here

PRESENTATION:

Two presenters will give an introduction of LA retrofit ordinances on wood structures with soft, weak, or open front walls (S.W.O.F.) and non-ductile concrete structures. An overview of SEAOSC's SWOF and non-ductile Concrete Design Guides, developed by the Seismology and Existing Building Committees will be presented.

PRESENTERS



Josh Gebelein, S.E. Brandow & Johnston

Josh Gebelein is an Associate Principal with Brandow & Johnston with 17 years of engineering experience. During his career he

has lived and practiced in Sacramento, Menlo Park, and Los Angeles, and has worked on international projects in New Zealand, Japan, Canada, Haiti and Turkey. He enjoys learning about advances in seismology, earthquake engineering, and materials science, and then exploring how to apply that knowledge into real practice as well as code language updates. He is currently a SEAOSC Director, Seismology Committee Vice Chair and head of the Non-Ductile Concrete Design Guide task group.



Garrett Hagen, P.E. Degenkolb

Garrett Hagen joined Degenkolb in 2012 after completing his Master of Science from California Polytechnic University, San

Luis Obispo, where his graduate research involved performance-based analysis of concrete structural walls. Garrett actively contributes to research regarding earthquake resilience and developing the state of practice for earthquakeresistant structures through several published papers, committee reports, and the development of ASCE 41. Garrett was a member of the Degenkolb postearthquake reconnaissance team that surveyed earthquake damage in Taiwan in February 2016. Bringing back lessons from Taiwan, Garrett assisted with writing guidelines for the Los Angeles ordinances to protect against hazards from LA's existing non-ductile concrete and soft-story buildings. He is also a delegate for the SEAOC state Existing Building Committee and a voting member on ACI Committees 369 and 374. Garrett's portfolio includes design and seismic strengthening schemes for a variety of facilities.

SEADSC Women in Structural Engineering is proud to present

R K -



Whether you are talking one on one with a client or delivering from a stage, your audience needs to hear what you have to say. Learn how to be articulate, engaging, and professional in your speaking skills.

This workshop combines instruction with interactive elements and live coaching. It will address messaging goals, specific speaker delivery techniques, and fundamentals of motivating an audience.



April Kelcy is an award-winning speaker and emergency management consultant. She is the founder and chair of the Earthquake Country Alliance Speakers Bureau, and is a consultant to the Southern California Earthquake Center. She holds the coveted ACG Award (Advanced Communicator Gold) from Toastmasters International, which is their highest award in the public speaking track.

PRESENTATION SKILLS /

By April Kelcy Earthquake Country Alliance Speakers Bureau

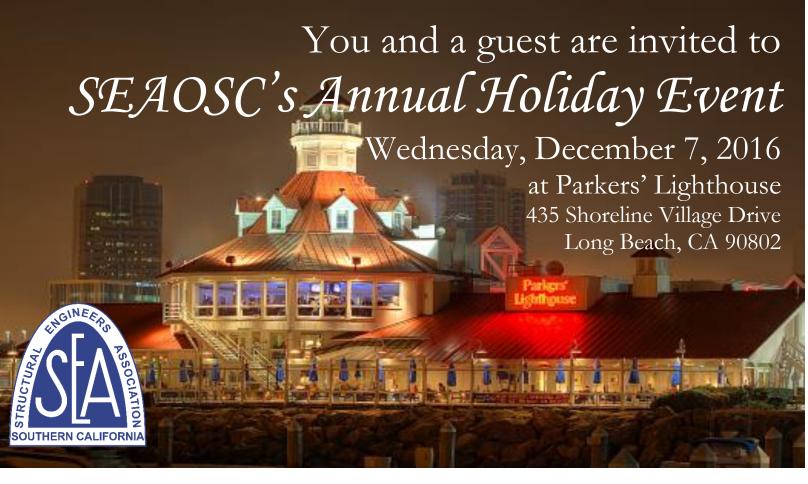
Hosted by **WALTER P MOORE** AON Building - 707 Wilshire Blvd. - Suite 2100 Lunch Included

RSVP at http://seaosc.org/event-2359029 \$10 Registration Fee – Space is Limited

Parking at Aon Building (707 Wilshire Blvd.) is complimentary and will be validated by WPM



9:30-11:30 am



Join Us for our SEAOSC Annual Holiday Dinner!

Cocktails, Dinner & "50/50" Raffle

Raffle to benefit the upcoming Students Night scholarships

Social Hour: 6–7pm | Dinner: 7pm | Hosted Bar Attire: Holiday Semi-Formal \$85 per General Member/Guest | \$35 per Young Professional/Guest* \$105 per General Non-Member/Guest *Parking Included* * Associate, Young Associate & Student Members of SEAOSC. Young Professionals discount sponsored by CSI.

Special Thanks to our Exclusive Sponsor!



Registration Open Now!

Advanced reservations required by Friday, December 2, 2016

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LA DINNER MEETING JANUARY 2017

Agenda: 5:30pm-6:30pm

Registration & Networking

6:30pm-7:00pm Dinner

7:00pm Panel Discussion

Cost:

Enroll on or before 12/28/16 for Early-Bird Discount

Early Bird / Regular

Individual Tickets

Members: \$45 EB / \$55 Reg Non-Member: \$55 EB / \$65 Reg Students: \$25 EB / \$25 Reg

Reserve a Table of 8: Member: \$385 Non-Mem<u>bers: \$455</u>

Exhibit/Sponsorship Opportunity

Single Event: \$425 Package of 4 Events: \$1500 (limited to 10 sponsors total)

Includes:

- Exhibit Table

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

Click Here to Exhibit/Sponsor

For more Information, <u>visit seaosc.org</u>

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

Wednesday, January 4, 2017

Networking, Dinner & Panel Presentation

Luminarias Restaurant 3500 Ramona Blvd. Monterey Park CA 91754 **Register Here**

PRESENTATION:

CAL POLY POMONA, STUDENT RECREATION CENTER, CALIFORNIA

Located on the campus of California State Polytechnic University in Pomona, California, the Student Recreation Center is the hub of student activity on the primarily commuter campus. The complex includes an aquatic center and a three-story, 95,000-square-foot recreation center that incorporates five fitness and multipurpose studios, three basketball/volleyball courts, a multi-activity court, a one-quarter-mile running track, a 51-foot rock climbing wall, two racquetball courts, administration offices, locker rooms and shower facilities. The dramatic three-story steel structure seems to defy gravity even more than the rock climbers inside, featuring several substantial cantilevered floor areas, the largest of which extends nearly 60 feet. The integrated LPA, Inc. design team was further challenged by the one-quarter-mile running track surrounding the perimeter of the cantilevered floor. Extensive floor vibration analyses were performed to ensure the safety and comfort of both the students exercising inside the recreation center and the synthetic pavementpounding joggers enjoying the panoramic view of the campus and surrounding areas from the elevated running track.

The LPA integrated design team met the challenges of the site by marrying the performance of the steel framing to its function, providing future generations of Cal Poly students with place to work, play and socialize for years to come.

PRESENTER:



Daniel Wang, SE

Associate, Design Director of Structural Engineering **LPA**, **Inc.**

With over 28 years of design experience, Daniel Wang utilizes his extensive industry experience and a design philosophy that integrates architecture, engineering and construction to create cohesive solutions to complex challenges. His experience includes both new construction and technically challenging seismic renovation projects. Daniel provides comprehensive technical design, delivering innovative structural solutions for a wide variety of project types including educational, institutional, commercial, industrial, and healthcare buildings.



WINTER EDUCATION PROGRAM

Join Us For An Education Program on

LA Ordinance and the 2016 CBC Code and Standard Update

Friday, January 20, 2017, 8:30am – 5:00pm & Friday, January 27, 2017, 8:30am-5:00pm Registration Opens at 7:30am. Breakfast and Lunch is provided Attendees will receive Design Guide Discount: \$8 off NDC & \$5 SWOF

The Grand Event Center 4101 East Willow Street, Long Beach, CA 90815

Attend One Day: \$215 (Member) or \$430 (Non-Member) | Attend Both Days: \$370 (Member) or \$740 (Non-Member) Sponsorships: \$425: 2-day Tabletop Exhibit Display

Students with valid ID receive 50% discount off Member price

Click Here to Register or Visit website at www.seaosc.org

Session #1 – Friday, January 20, 2017, 8:30am-5:00pm (6 PDH Credits) Topics:

- Introduction to 2015 IBC/2016 CBC Code Updates by Alan Carr, S.E., Senior Staff Engineer, ICC
- ASCE 41-13 vs ASCE 31-03 and 41-06 by Daniel Zepeda, S.E., Principal, Degenkolb Engineers
- A Preview of Major Changes in ASCE 7-16 by S.K. Ghosh, PH.D, President, S.K. Ghosh Associates
- LA Ordinance Discussion: Soft Story by Russell McLellan, M.S., Staff Engineer, Simpson Gumpertz & Heger

Session #2 – Friday January 27, 2017 – 8:30am-5:00pm (7 PDH Credits)

Topics:

- Wood Design Code Updates by Michelle Kam-Biron, S.E., SECB, Senior Director of Education, American Wood Council
- The 2015 IBC/2016 CBC Masonry Design Code Updates by James Mwangi, Ph.D, S.E., Professor California Polytechnic State University San Luis Obispo
- DSA/OSHPD Code Updates by M.R. Karim, S.E., SHFR, OSHPD & Ron LaPlante, S.E., Supervising Structural Engineer, DSA
- LA Ordinance Discussion: Non-Ductile Concrete by Josh Gebelein, M.S., S.E., Associate Principal, Brandow & Johnston Structural & Civil Engineers



SAFER CITIES ADVISORY PROGRAM

Developing a Seismic Safety Ordinance? Or a Back-to-Business Program? We have something for you!

A message from the SEAOSC President Jeff Ellis, S.E.

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 <u>seaosc@seaosc.org</u>. We look forward to working with you.

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

NGINEER

SOUTHERN CALIFORNIA

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:

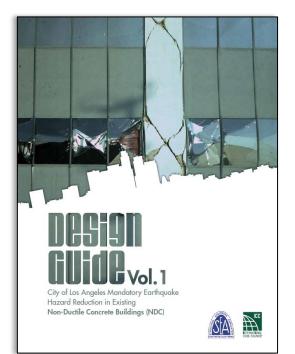
437 S. Cataract Ave., #4-B, San Dimas, CA 91773 phone: (562) 908-6131 email: <u>seaosc@seaosc.org</u>

Jeff



SEAOSC NDC and SWOF Seismic Retrofit Design Guides

The SEAOSC Design Guides for the City of Los Angeles Mandatory Earthquake Hazard Reduction in Existing Non-Ductile Concrete Buildings (NDC) and in Existing Wood-Frame Buildings with Soft, Weak or Open-Front Walls (SWOF) are published by ICC and are now available! They are must-have references for anyone performing retrofit design in accordance with the City of L.A. seismic retrofit ordinance and will provide excellent insight and guidance for those performing retrofit design or developing policy or ordinances for these types of vulnerable buildings. The Design Guides are available for sale on the <u>ICC</u> website and will soon be for sale on the <u>SEAOSC</u> website.



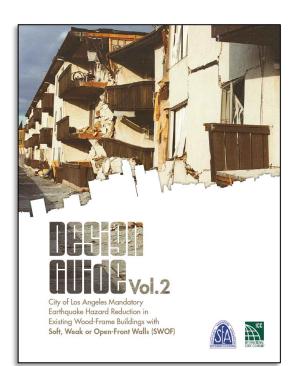
This design guide discusses and demonstrates methodologies for the seismic evaluation and strengthening of existing non-ductile concrete buildings. While aspects of this guide focus on the mandatory City of Los Angeles earthquake hazard reduction ordinance and historical construction practices of the 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

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



SEAOSC 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. <u>Click Here</u> for more information.

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.

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 <u>website</u>.

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.

- Student Scholarships & Job Fair (February 2017)
- Winter Education Programs (January 2017)
- Spring Education Programs (May 2017)
- SEAOSC Educational events 4 opportunities available annually
- SEAOSC Summit (November 2016)

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 <u>SEAOSC Events Calendar</u> for the most up-to-date information!

- <u>Student Scholarships & Job Fair (February)</u>
- Winder Education Programs (January)
- Spring Education Programs (April/May)
- Annual Excellence in Engineering/Past President's Award (June)
- <u>Annual Golf Tournament (August 2016)</u>
- <u>SEAOSC Summit (November 2016)</u>
- Monthly Dinner Meetings

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Mid-Level Structural Engineer – Los Angeles

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Please submit cover letter, resume and references to <u>resumes@bbse.com</u> for immediate consideration.

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Buehler & Buehler Structural Engineers, Inc. is seeking a highly motivated individual to join our management team in our Los Angeles office. B&B's growth into new regions and market sectors has created opportunities for a senior structural engineer looking to grow to a new level in their career aspirations. The successful candidate must be a California SE with 15 years' experience covering a broad spectrum of project types and an established commitment to the LA region. Candidates must possess excellent communication and relationship skills, be local to the region, and have a solid technical background, prior management experience, and the energy and drive to be part of B&B's growth in developing new opportunities in the Los Angeles area. B&B is a progressive, design-oriented firm with a 70 year history of excellence. We are committed to continuously improve our level of service and quality of our work, and we achieve this through investing in the mentoring and professional growth of our staff.

Qualified applicants are invited to submit their cover letter, resume and references to <u>resumes@bbse.com</u>.

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July 1, 2016 – June 30, 2017

The SEAOSC Board of Directors works 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.

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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	*Board Contact Chair(s)	Phone	Email
Membership Subcmte: Golf Tourn.	Victoria Wigle* Kerry Regan Christian Cody Kevin O'Connell	949-955-3771 323-536-2363 323-907-2523 213-271-1934	victoriaw@dpr.com kregan@bbse.com christian.cody@hilti.com kdoconnell@sgh.com
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	Maria Mohammed	310-323-9924	mmohammed@structuralfocus.com
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	Larry Kaprielian	949-462-3200	lkaprielian@knaconsulting.com
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	Colin Kumabe	213-482-0447	colin.kumabe@lacity.org
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Please visit

http://seaosc.org/committees

to view the annual committee charges and tasks.

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