



Structural Engineers Association
of Southern California

SEAOSC NEWS

SEPTEMBER 2017

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Join Us for the Fall Welcome Event

SOCIALIZE AND NETWORK AT THE COMMITTEE SHOWCASE

- ◇ Engage with current committee members to learn about committee goals and ongoing projects.
- ◇ Network and participate for greater IMPACT in your profession and community.
- ◇ Visit with our sponsors to learn about new products and services.

PRESENTATION:

Wilshire Grand Center Follow-Up

With a follow up to 2016 SEAOSC presentation, Principal Peter Maranian from Brandow & Johnston, Inc. will take a look at the construction of the tallest building west of the Mississippi's river, Wilshire Grand Center. Both Maranian and Leonard Joseph (Thornton Tomasetti) will discuss the partnership between the two firms, multiple city approval phases, the challenges and difficulties faced in executing the project such as the detailing and construction for the sail and spire, tower cranes, tenant improvements, and other retrospectives on this remarkable structure.

PRESENTERS:

Josh Gebelein, Associate Principal | Brandow & Johnston
Peter Maranian, Principal | Brandow & Johnston
Leonard Joseph, Principal | Thornton Tomasetti

Wednesday, September 6, 2017
Committee Showcase | Networking |
Hors D'Oeuvres |
Dinner & Presentation

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

[Register Here](#)



Wilshire Grand Center

Free Dinner for New SE's or PE's

Free dinner at our September 6th Fall Welcome Event for recent passing of these exams. Congratulations! Email the SEAOSC Office with your license number and receive a coupon code to register.

Membership Dues are due August 31st

2017-2018 Membership Renewals are due by August 31st! Renew now to avoid the \$50 reinstatement fee. Review our membership flier (www.seaosc.org/Membership-Application) and renew online. Click Here to renew now. Note that we have an engineer Referral Listing (\$100, www.seaosc.org/Find-an-Engineer), used by the public, and Professional Development Program (\$50) to track continuing education as optional services for members. We look forward to your insight, passion and participation and the magnified IMPACT we'll have together!

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

(562) 900-6131
SEAOSC@SEAOSC.ORG
WWW.SEAOSC.ORG



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

Welcome to the 89th year of our Association. Hope everyone had a great summer!

Our year begins on July 1 and over the summer, though we do not have member programs, the Board and Committees were busy planning the year. We held our first Board meeting on July 11th and convened bi-weekly conference calls throughout the summer.

Committee chairs, co-chairs and the Board of Directors met on August 16th to discuss committee goals and activities for the year, coordinate committee activities and to coordinate with the Board policies and direction. Many thanks to BuroHappold Engineering for hosting this meeting.

Let me introduce the new 2017 – 2018 Board:

President	Bob Lyons, SE, Risha Engineering Group, Inc.
President Elect	Mehran Pourzanjani, SE Saiful/Bouquet Structural Engineers
Treasurer	Ken O'Dell, SE MHP, Inc. Structural Engineers
Immediate Past President	Jeff Ellis, SE Simpson Strong-Tie Company Inc.
Director	Donny Harris, SE John Labib and Associates
Director	Jackie Vinkler, SE John A. Martin & Associates
Director	Josh Gebelein, SE Brandow & Johnston, Inc.
Director (Tri-State)	Massoud Abolhoda, SE Santa Barbara County Planning and Development
Director	Matt Bernard, SE Degenkolb Engineers
Director	Patti Harburg-Petrich, SE BuroHappold Engineering
Director (Orange County)	Sandra Biddulph, SE DCI Engineers
Director	Truong Huynh, PE City Of Long Beach

On Behalf of SEAOSC, I wish to thank the members of the Board, and the firms that support them in their endeavors, for their dedication to our Association and our Profession. Read the July/August 2017 newsletter for profile information on Board members.

I wish to acknowledge the commitment and efforts of our Executive Director, Dianne Ochoa, Principal with Co-Pilots Business Services and Renee Bailey, Account Assistant with Co-Pilots. They are responsible for all events and activities of SEAOSC and the SEAOSC Foundation throughout the year.

Membership renewal

Members continue to renew their membership. We sent reminder notices by email and recently sent actual stamped mail to current members that have not yet renewed. Our Executive Director began making calls this week. If you have not already renewed, please log in to your SEAOSC account now to renew, because very soon a small reinstatement fee will be charged to renew your membership.



Robert "Bob" Lyons
President 2017-2018

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Matt Barnard, SE

Patti Harburg-Petrich, SE

Sandra Biddulph, SE

Todd Brown, SE

Truong Huynh, PE

President's Message

In this Newsletter

To engineers who are confronting design decision on basic wind speeds in Southern California, particularly within the Special Wind Region, be sure to read the article "Special Wind Regions in Southern California". The article is written by James Lai, SE, one of our past presidents and Honorary members. James chaired the SEAOC Wind Committee from 2012 to 2016.

July and August Events

August 28, 2018 Golf Tournament at Friendly Hills Country Club

The annual Golf Tournament was a great way to start the year! Activities included a putting contest, BBQ lunch, golf of course, a social hour following golf, dinner, awards presentation and a raffle involving dozens of items and featuring a large screen TV.

Congratulations to the tournament winners: 1st place tournament winners were Kurt Anderson, Chad Gamell, Larry McCauley, and Mark McCauley. 2nd place tournament winners were Jared Stankevich, Chris Cody, Nicholas Ha, and Mike Daciolas-Semon. Closest to the pin awards went to Mark James and Udey Sohi. Long drive awards went to Mike Brown and Taylor Funk. Accurate drive award went to Kevin O'Connell. The putting contest winner was Jared Stankevich.

Rawn Nelson, as Master of Ceremonies, entertained us as only Rawn can do with his presentation of the awards and raffle prizes. Thank you Rawn! I wish to also thank **Kevin O'Connell, SE**, who chaired the Golf Tournament Committee. His time and effort is greatly appreciated and apparent in the success of the event.

Photos will be posted to our on-site gallery soon.

Join me in thanking our sponsors for this event by visiting their websites using the links on the event web page.

Eagle Sponsors

Hilti North America

Sika Corporation

Verco Decking, Inc.

Hole-in-one Sponsors

Sanders Construction, Inc.

Simpson Strong-Tie

Upcoming Events

September 6, 2017 Dinner Meeting

This is our Fall Welcome Event. Representatives of each committee will be present and available to discuss the goals and activities of their committee. This is an excellent time to ask questions and offer your suggestion to the committees, socialize and network. Please use this opportunity to interview the chairs, select and sign up to be a member of one of our great committees.

The **Wilshire Grand Center**, the tallest west coast building, recently opened and the structural engineers involved on the project will present a follow-up on the engineering and construction. Presenters are **Peter Maranian, SE**, with Brandow & Johnston, **Josh Gebelein, SE** with Brandow & Johnston and **Leonard Joseph, SE** with Thornton Tomasetti. You will not want to miss this.

The event will be held at the **Doubletree by Hilton Los Angeles Downtown**. Online registration is available through Friday, September 1, 2017. If you miss the online deadline, you may register on site.



Robert "Bob" Lyons
President 2017-2018

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Todd Brown, SE
Truong Huynh, PE

President's Message

Thank you to our event sponsors Hilti North America, GEI Consultants, MiTek Builder Products, Trinity Lightweight, Twining and Simpson Strong-Tie. Please visit their exhibit tables and talk to their representatives.

September 13 through 15, 2017 SEAOC Convention

The convention this year is sponsored by SEAOSD and will be held at the Hilton San Diego Resort & Spa. This event kicks off the SEAOC year. Numerous educational and social events are offered. Visit the [Convention website](#) for all of the exciting details.

October 4, 2017 Dinner Meeting

The Education Committee is finalizing the topic and presenters. Look for email announcements in the next few days.

November 7 and 8, 2017 Summit

The SEAOSC **Strengthening Our Cities Summit** returns for the sixth year! Focus this year is on the "The Value of Resilient Buildings". It will be attended not only by structural engineers, but by non-engineers including building owners and managers, risk managers, code enforcement officials and other stakeholders. Featured Summit Speakers are **Marissa Aho**, Chief Resilience Officer with the City of Los Angeles, **Jason Perry**, Resident Managing Director, Senior Vice President of Aon Risk Services and **Evan Reis, SE** Executive Director of US Resilience Council. Each year, this is a well-received and well-attended event and is the cornerstone of the SEAOSC Outreach effort to engage our community and industry partners. Email announcements already sent provide further details. Watch for future email announcements as this event is finalized.

December 6, 2017, Holiday Party

Planning is underway for the annual Holiday Event. It will be held at **Parker's Lighthouse** in Long Beach. If you attended this event in the past, you know this is a pleasant and enjoyable night, filled with great conversation, excellent food and beautiful surroundings. If you have not attended in the past, you should plan on attending this year.

In future president messages, I will provide updates on activities of the Board, significant decisions of the Board, especially as they concern policy, and the state of our Association. This last year, and based on indicators to date, our Association is stronger, more active and robust than in the previous, very difficult and lean years following events of 2008. I encourage you to engage and participate in the Association as much as you are able and to encourage your co-workers and colleagues to do so as well so we may make an even greater impact together!

I look forward to seeing you on September 6th at our dinner meeting and at the SEAOC convention.

Bob Lyons, SE
President

Life Member Spotlight



Colin Kumabe, SE

SEAOSC Member Since: 1990

SEAOSC/SEAOC Committee Participation: Building Codes and Standards Committee.

SEAOSC/SEAOC Document Contributions: Recent SEAOSC Newsletter articles as part of the SEAOSC Codes and Standards Committee.

What SEAOSC has meant to Colin: SEAOSC is the advocate for the Structural Engineering profession and for a safe built environment that improves the Structural Engineering profession, construction industry, and Los Angeles area communities.



Lynn Schutt, SE

SEAOSC Member Since: 1991

SEAOSC/SEAOC Committee Participation: Was chair of Research Committee, and chair of Quality Assurance Sub-Committee for approximately 10 years.

SEAOSC/SEAOC Document Contributions: Contributed to several papers published by Quality Assurance Committee.

What SEAOSC has meant to Lynn: Access to emergency information and technical documents and questions. Also SEAOSC have attended on occasion the dinner meetings and attended seminars that were related to the work I did as a Structural Engineer for MWD. I have used SEAOC extensively for information on updated codes, and other info related to structural engineering.



Nezhil Gunal, PE

SEAOSC Member Since: 1985

SEAOSC/SEAOC Committee Participation: Was chair of Research Committee, and chair of Quality Assurance Sub-Committee for approximately 10 years.

SEAOSC/SEAOC Document Contributions: Contributed to several papers published by Quality Assurance Committee.

Professional Accomplishments: Faculty Emeritus from California State University at Long Beach Department of Civil Engineering. Life member ASCE.

What SEAOSC has meant to Nezhil: Made me enjoy the profession of structural engineering.

Life Member Spotlight



J. Clark Sandberg, SE

SEAOSC Member Since: 1968

Comments: Since retirement in Dec. 2017 I have lived more than 3 years in Guatemala, Peru, and currently in the Galapagos Islands of Ecuador where I will be until September of 2018. Before retirement I served for 20 years in charge of organizing and directing the damage assessment teams for the Metropolitan Water District of Southern California. During that time I was also a damage assessment volunteer for SEAOSC. Although I have not practiced structural engineering since retiring, by observation I have become well acquainted with structural building practices in Central and South America.



Shafqat (Shaf) Ullah

SEAOSC Member Since: 1979

SEAOSC/SEAOC Committee Participation: Was involved with the Wood Committee back in the early 80's.

Professional Accomplishments: As Principal Structural Engineer with the Division of the Stare Architect, I was instrumental in the partnering effort with Los Angeles Unified and Los Angeles Community Colleges to help with their multi billion dollar construction bond program.

What SEAOSC has meant to Shaf: I have been a part of this esteemed organization throughout my career. This is the oldest structural engineering association in the world and has been a pioneer in promoting the profession of structural engineering. SEAOSC has done a great job in educating its membership as well as the public. Safe, Sensible and Sustainable Structures is what Structural Engineering is all about and SEAOSC plays a vital role in it. structural engineering.

Welcome New Members

Member SE

- ◇ Jonathan Swanson, DCI Engineers
- ◇ Paul Boranian, Paul's Structural Engineering

Associate

- ◇ Francisco Magallon, LPA, Inc.

Young Associate

- ◇ Taylor Watanabe, Watanabe

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

SEAOSC Younger Member Stipend

The SEAOSC Board of Directors developed the SEAOSC Convention Stipend Award to facilitate participation of Younger Members, to support their professional development, and to broaden SEAOSCs networking opportunity among the MO's.

As such, the Board is happy to announce this year's 2017 SEAOSC Convention Stipend

Award winners to Younger Members:

Alexander Talebi,
Cheng Song,
Matthew Michnewich, and
Sinhui Chang

Congratulations and see everyone at the Convention!

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 | 2017 Annual Golf Tournament

SEAOSC held their annual golf tournament on Monday, 28 August 2017 at Friendly Hills Country Club in Whittier, California. If you liked hot weather, this was the place to be. With over 80 golfers and nearly 100 participants overall, it was a wonderful day and everyone had a great time.

Special thanks to our Eagle Sponsors: Hilti, Sika, and Verco, and our Hole-in-One Sponsors: Simpson Strong-Tie and Saunders Construction. 1st place tournament winners were Kurt Anderson, Chad Gamell, Larry McCauley, and Mark McCaulley. 2nd place tournament winners were Jared Stankevich, Chris Cody, Nicholas Ha, and Mike Daciolas-Semon. Closest to



the pin awards went to Mark James and Udey Sohi. Long drive awards went to Mike Brown and Taylor Funk. Accurate drive award went to Kevin O'Connell. The putting contest winner was Jared Stankevich. Congratulations to Ben Rogowski, SE for winning the grand prize TV!



Thank you to everyone who came out in support of SEAOSC and we hope to see everyone again next year.

Kevin O'Connell, S.E.
SEAOSC Golf Tournament Committee Chair

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.

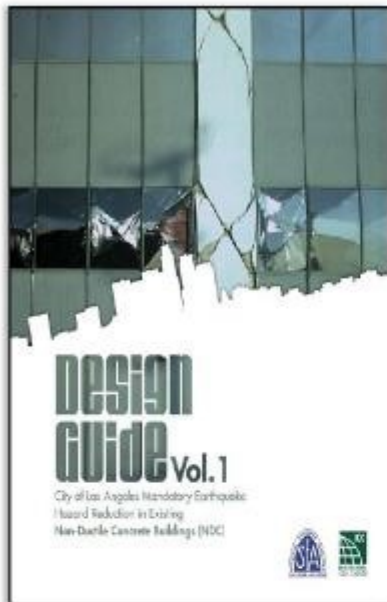
2017-2018 Membership Renewals are Due

Renew by August 31st

To Avoid the \$50 Reinstatement Fee

[Click Here to Renew Now!](#)

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

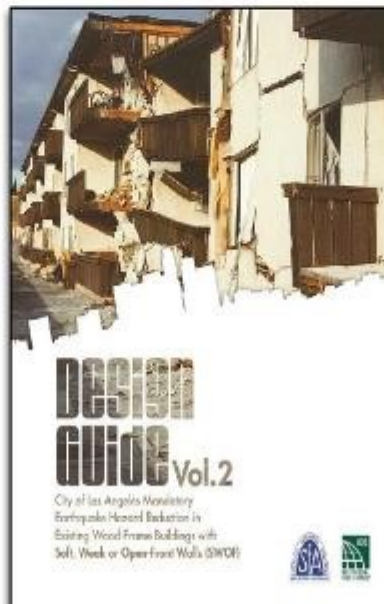
[Click Here to Purchase](#)

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!

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 seaosc@seaosc.org. We look forward to working with you.

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

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



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

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



The SEAOSC Foundation

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

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

In furtherance of its purposes, the SEAOSC Foundation may:

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

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

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

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

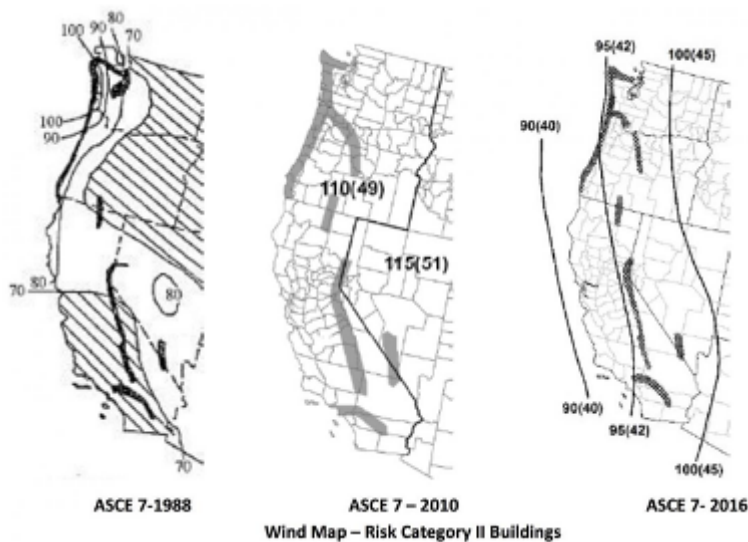
Committee Updates | Building Codes & Standards Committee

Special Wind Region in Southern California

James S. Lai, S.E., F. SEAOC, Past Chair SEAOC Wind Committee

Understanding the myth of Special Wind Region

ASCE 7-10 wind hazard maps Fig. 26.5-1A through 26.5-1C show the 3-second gust basic wind speed. A footnote states unusual wind conditions need to be examined in special wind regions, which are shown as “gray” areas on the maps. The special wind regions are known for abnormal wind speed. ASCE 7 Commentary section C26.5.2 states that “when selecting basic wind speeds in these special regions, use of regional climatic data and consultation with a wind engineer or meteorologist is advised.” 2016 CBC section 1609.3 states that “the ultimate design wind speed V_{ult} for the special wind regions indicated near mountainous terrain and near gorges shall be in accordance with local jurisdiction requirements.” State agencies such as DSA and OSPHD rely on the engineer-of-record to obtain wind speed information from local Building Officials. For Southern California, the extreme wind speed largely lies on mountainous regions north and east of Los Angeles and along the high points of the Sierra Nevada range.



The special wind regions were first introduced in ANSI A58.1-1982 and shown as the “gray” areas on the wind map which was republished in ASCE 7-88. Concerns have been expressed that the special wind regions for the Western US changed over time. For example, the shifting of the special wind region further west into the Los Angeles basin as shown on ASCE 7 wind maps between 1995 to 2010 editions. The ASCE 7 Wind Subcommittee acknowledged that Los Angeles region shown on ASCE 7-10 wind map was inadvertent due to unintended graphical error. Since first published there has been no additional study made related to the special wind regions, the ASCE7-16 will have the special wind regions reinstate to their original shapes as defined in ANSI 58.1-82, except for those around the Great Lakes region and the area of Puget Sound near Seattle which remain without special wind regions based on supporting meteorological data.

Committee Updates | Building Codes & Standards Committee

Continued...

ASCE 7 (including the ATC website) does not provide values for basic wind speed in the designated special wind regions. Instead, the Standard defers such information to local jurisdictions. Jurisdictions do not typically have adequate data or resources for studies on which to base their determination of basic wind speed in special wind regions. This results in confusion among engineers, inconsistency between jurisdictions, and potentially overly conservative or uncon-servative designs. For some areas within special wind regions, wind hazard experts indicate that it is possible to define appropriate local design wind speeds. SEAOC Wind Committee saw such an effort as being a valuable contribution to structural engineering practice in California, leading to more consistent requirements, and simplifying the work of structural engineers and building officials.

Pilot Study Program

In 2015, SEAOC Wind Committee carried out a pilot study program, and engaged the assistance and service of Cermak Peterka Petersen (CPP), Fort Collins, Colorado. Dr. David Banks of CPP, a member of the SEAOC PV Subcommittee who provided extensive data and technical insight into the development of SEAOC PV2 document, served as the lead investigator. A Task Group, chaired by James S. Lai of the Wind Committee, was assigned to oversee the extreme wind speed study.

In this pilot study, CPP carried out extreme wind analyses of two specific study regions. One study region envelops the Coachella Valley including Ontario, San Bernardino and Palm Springs where special wind region has been designated in current Standard. The other study region borders Highway 241 including Fullerton, Santa Ana and Irvine, which is outside of the designated special wind region. CPP examined and interpreted extreme wind data from airport anemometers in these regions. The analyses included examination of recorded data and the quality of the data from the selected airport.

In the Coachella Valley region, the study indicated no adjustment is needed to ASCE 7-16 wind speeds. On the other hand; along Highway 241 to the northeast of Irvine, wind speed based on ASCE 7-10 appears more appropriate. Findings of the study and recommendations are given in a Committee white paper, "Recommendations for Action to Address Design Wind Speed in California." The white paper has been written to guide the users on site specific wind speed studies in collecting and analyzing anemometer data. Pursuant to SEAOC Board review, the report has been published in the July/ August, 2017 SEAOC Talk.

In summary, aside from the not well-defined boundaries of the special wind regions, there may be additional high wind speed zones not included in the current special wind region map, and more in-depth study is warranted. Inasmuch as seismic normally controls over wind in the design of the lateral force resisting system for most building types in Southern California, engineers are cautioned not to underestimate the selection of wind speed in the design of components and claddings.

References

- Lai, 2015, "Pilot Study of Special Wind Region at Select Site in California," SEAOC Newsletter, April 2015.
- Lai and Maffei, 2015, "Advancement in Wind Design," 2015 SEAOC Convention Proceedings.
- SEAOC Wind Committee, 2017, white paper "Recommendations for Action to Address Design Wind Speed in California", SEAOC Talk Vol. 6 Issue 7, July/ August, 2017.

Industry News | City of West Hollywood

CITY OF WEST HOLLYWOOD APPROVES MANDATORY SEISMIC RETROFIT ORDINANCE!

As previously mentioned in our May newsletter, in April the West Hollywood City Council voted to approve implementation of a soft-story wood seismic retrofit ordinance. Then on July 17th they voted on the first reading to approve implementation of a seismic retrofit ordinance for non-ductile concrete (NDC) and pre-Northridge steel moment frame buildings (PNRSMF). There are some exceptions to the NDC and PNRSMF ordinance, such as the exclusion of condominium buildings. The notification to NDC and PNRSMF building owners are expected to be sent during the summer of 2018. SEAOSC strongly supports retrofit programs that target and reduce the risk of significant seismic vulnerabilities often times found in older buildings. These programs promote improved safety for building owners and building occupants, benefiting the entire community. SEAOSC is proud to have supported this effort through our Safer Cities Advisory Program, offering technical input regarding the ordinance. Congratulations to the City of West Hollywood for this important step towards increasing the safety of their community!

For more information on the ordinance please visit the city's new seismic ordinance website

<http://www.weho.org/city-hall/city-departments-divisions/community-development/building-and-safety/seismic-retrofit>.





**Structural Engineers Association
OF CALIFORNIA**

San Diego
SEAOC

2017 CONVENTION



Save the Date for the 2017 SEAOC Convention!

September 13-15, 2017

Hilton Resort & Spa at Mission Bay

convention.seaoc.org

Convention Online Registration - Coming Soon

John Rae (Jack) Anderson IV

Husband, Father, Structural Engineer, Naval Officer, Philanthropist



John R. Anderson IV died peacefully with his entire family surrounding him on July 3, 2017.

A humble man, Jack was born March 1, 1922 in Chicago, Illinois to J Bruce and Ethel G. (Bernard) Anderson and named after his Uncle John R. Anderson III and his grandfather John R. Anderson II, a Chicago Alderman and Mayor of Park Ridge, Illinois 1925-1929. In 1938, Jack and his parents moved to Los Angeles to join other family members escaping the cold Chicago winters after attending only two years of high school at John Marshall High School. Prior to his departure from Chicago, he was initiated in the John Marshall Lodge No 636 as an apprentice Mason. He graduated from Los Angeles High in 1940, attending USC and graduating in 1948 with a Bachelors of Engineering in Civil Engineering after a two year enlistment in the United States Navy as an Aviation Radioman. From June 1946 to May 1957 he worked in the private sector and the Building and Safety Division of the County Engineer, County of Los Angeles, receiving his California authority to use the title 'Structural Engineer' in April 1955. He eventually departed the challenging job as Senior Structural Engineer for Los Angeles County to start a private Structural Engineering practice. During his employ at Los Angeles County, he took a two year leave of absence during the Korean conflict (1952-1954) for a tour of active duty with the United States Navy as Assistant Resident Officer in Charge of Construction at 29 Palms Marine Corps Air Ground Combat Center.

Jack started his firm in May 1957 with two year old and six month old sons at home. As usual he never did things the easy way. Long days and designing into the wee hours of the night enabled the engineering firm to grow rapidly and by 1965 was offering Architectural and Structural Engineering services. At its peak, the firm employed fifteen personnel and held engineering licenses in 14 states under Jack's name. A testament of his company's growth in the first 8 years included major building projects for United Parcel Service, Continental Can and a new 400,000 square foot manufacturing warehouse building and six story corporate headquarters for Mattel, Inc.. The firm continued to grow with projects for Sinclair Paints, Columbia Savings & Loan and the United States Government. He retired from the design business in December 1986, but continued to manage his real estate holdings for the next twenty years.

He retired from the United States Naval Reserve in 1982 at the rank of Captain, Civil Engineer Corps after 35 plus years' service. He was very proud of his service as a 'Mustang' (Enlisted rank to Commissioned rank) in the Navy. So much, that he even wrote a letter to the Chief of Naval Operations to voluntarily return to active duty after 9/11! Yes, he was 79 years old! His membership in the Navy League of the United States (NLUS) was as stellar as the rest of his career(s). He held positions as President of the local NLUS Council, Southwest Region and National Director. He took substantial pride being the Chairman of the NLUS Ball for the re-commissioning of the USS New Jersey in 1982 during then President Reagans efforts to create a 600 ship Navy.

Jack defined the word frugal by the way he lived. He wasted nothing and collected everything! To humanities benefit, he bequeathed the lion's share of his lifelong savings to help thousands of other people through Scripps Health Foundation. A special thank you to his 'other' family at Scripps Memorial Hospital in La Jolla for their loving care and support, not only during the last days of his life, but for the past 32 years of his healthcare needs.

Survived by his wife of 65 years, Eileen, his daughter, Wendy Sonnevile, and a son J Bruce Anderson II, two grand-daughters, one grandson and seven great grandchildren, Jack was predeceased by his parents and son, John R. Anderson V (2004).

SEAOSC Events



Fall Welcome Event

September 6, 2017—Starts at 5:00pm
 Doubletree by Hilton Los Angeles Downtown
 120 S. Los Angeles Street, Los Angeles CA 90012

[Register Here](#)

Socialize and Network at the Committee Showcase

- Engage with current committee members to learn about committee goals and ongoing projects.
- Network and participate for greater IMPACT in your profession and community.
- Visit with our sponsors to learn about new products and services.

[Click Here to View Flyer](#)

Strengthening Our Cities Summit

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

[Register Here](#)

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

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

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

[Click Here to View Flyer](#)



FALL WELCOME EVENT

SOCIALIZE AND NETWORK AT THE COMMITTEE SHOWCASE

- ◆ Engage with current committee members to learn about committee goals and ongoing projects.
- ◆ Network and participate for greater IMPACT in your profession and community.
- ◆ Visit with our sponsors to learn about new products and services.

Agenda:

5:00pm-6:00pm
Social & Registration

6:00pm-7:00pm
Committee Showcase,
Networking & Hors D'Oeuvres

7:00pm
Dinner & Presentation

Cost:

Enroll on or before 8/25/17 for
Early-Bird Discount

Early Bird / Regular

Individual Tickets

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

Onsite Reg Fee: \$10

Reserve a Table of 8:

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

Exhibit/Sponsorship Opportunity

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

Includes:

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

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

REGISTER NOW!

Wednesday, September 6, 2017

*Committee Showcase, Networking, Hors D'Oeuvres
Dinner & Presentation*

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

[Register Here](#)

PRESENTATION:

WILSHIRE GRAND CENTER FOLLOW-UP

With a follow up to 2016 SEAOSC presentation, Principal Peter Maranian from Brandow & Johnston, Inc. will take a look at the construction of the tallest building west of the Mississippi's river, Wilshire Grand Center. Both Maranian and Leonard Joseph (Thornton Tomasetti) will discuss the partnership between the two firms, multiple city approval phases, the challenges and difficulties faced in executing the project such as the detailing and construction for the sail and spire, tower cranes, tenant improvements, and other retrospectives on this remarkable structure.

PRESENTERS:

- Josh Gebelein, Associate Principal | Brandow & Johnston
- Peter Maranian, Principal | Brandow & Johnston
- Leonard Joseph, Principal | Thornton Tomasetti



STRENGTHENING OUR CITIES SEAOSC SUMMIT



The Value of Resilient Buildings

November 7 & 8, 2017

seaosc.org/summit

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

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

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

FEATURED SUMMIT SPEAKERS



Marissa Aho
Chief Resilience Officer,
City of Los Angeles



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



Evan Reis
Executive Director,
U.S. Resiliency Council

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

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



Advertisement & Sponsorship Opportunities



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

Advertising Opportunities

Newsletter Advertising

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

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

Website Advertising

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

Exhibit/Sponsor Opportunities

Exhibit Opportunities

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

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

Sponsorship Opportunities

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

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

Classified Ads



Forensic Structural Engineer

Harris & Sloan Consulting Engineers is a multidisciplinary engineering consulting firm that creates solutions for the Construction, Insurance, and Legal industries. Our immediate need is in our Aliso Viejo, CA office. <http://harrisandsloan.com/>. The candidate must have the following minimum qualifications: Bachelor’s degree in Civil, Structural or Architectural Engineering; Be licensed engineer in the State of California; licensed or ability to get licensed in other states; 5 years of engineering experience; 2 of which providing Forensic Structural Engineering services; Experience in commercial, industrial, single and multi-family, high-rise, etc.; a candidate well versed in wood construction and with a construction background is a plus; Be versed in repair implementation with a detailed understanding of construction means and methods; Ability to communicate orally and written with other staff members and clients. Compensation: This is an exempt position (salary) and pays a competitive wage based on experience. Company Benefits include: Paid Time Off, Medical, Dental, Vision, Life and Disability insurance, 401(k) plan with company match.



Senior Civil Engineer

SALARY—\$47.81 - \$58.12 Hourly, \$3,837.89 - \$4,665.52 Biweekly, \$8,315.43 - \$10,108.62 Monthly. \$99,785.21 - \$121,303.41 Annually

OPENING DATE: 08/18/17 CLOSING DATE: 09/18/17 THE POSITION

Applications are accepted on-line at: www.yourpath2sonomacounty.org. Paper applications may be submitted by person, fax (707-565-3770), email, or through the mail. All applications and appropriate supplemental information as outlined in the job bulletin must be RECEIVED by the time and date specified on the first page of this job announcement. Applications received after the recruitment closes will not be accepted.

The County of Sonoma prioritizes and is committed to continuously providing a workplace where equal employment opportunity is afforded to all people. Please view the County's Equal Employment Opportunity Policy for further information.



Civil Engineer-Structural Design

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

Classified Ads



Senior and Mid-Level Structural Engineers

Founded in 1946, Buehler & Buehler Structural Engineers, Inc. (B&B) provides a wide range of structural engineering services throughout the United States.

We are looking for both Senior and Mid-Level Structural Engineers committed to long term employment for our Los Angeles 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 also available in our Sacramento, San Francisco, Silicon Valley and Phoenix offices.

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

SAIFUL BOUQUET STRUCTURAL ENGINEERS - PASADENA

Saiful Bouquet Structural Engineers is an 85+ person award winning firm engaged in providing high quality integrated design solutions to national and international clients. We are currently looking for a several experienced structural engineers to join our outstanding team of professionals at both our Pasadena and San Diego office.

- Project Manager / Associate - 10+ yrs Experience, S.E. Preferred
- Mid-Level Structural Engineer - 4+ yrs Experience. MS Preferred
- Entry-Level Structural Engineer - MS Required

Candidates must be self-motivated, detail oriented with good communication skills and the ability to work on multiple projects simultaneously. Experience with steel required.

We offer excellent compensation/benefits package. Salary is commensurate with experience

For more information about Saiful Bouquet, please visit our website at www.SaifulBouquet.com. Please send your resumes w/ cover letter and position to careers@SaifulBouquet.com. Please no phone calls.

FREE **SteelDay** Webinar!
**DESIGNING IN
 STRUCTURAL STEEL: 2017**
 9.15.17 | 11:30 a.m. & 1:30 p.m. CT

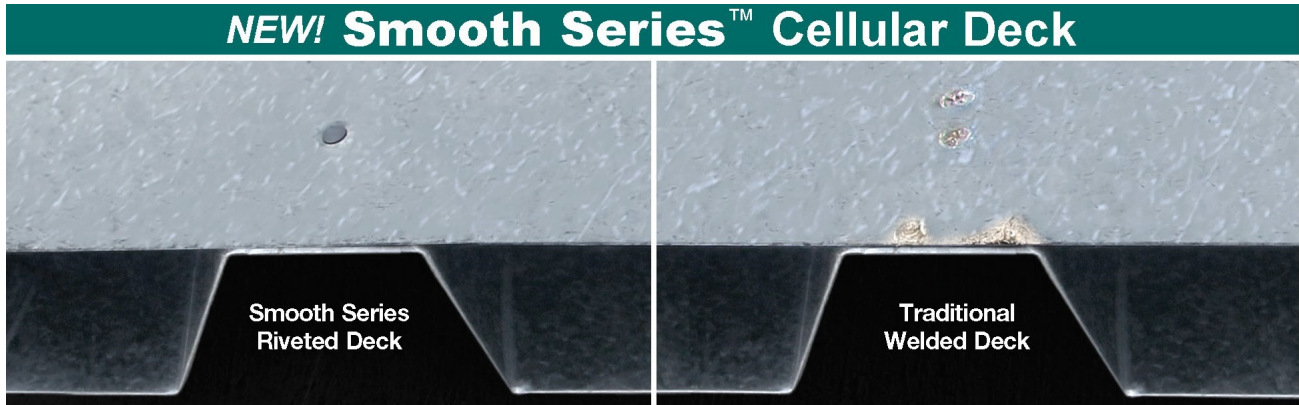
Celebrate **SteelDay** 2017 by joining more than 8,000 of your colleagues for a special lunchtime webinar discussing the latest AISC *Specification for Structural Steel Buildings*, the AISC *Code of Standard Practice* and the new *Steel Construction Manual*, 15th Ed.

Larry Kruth, AISC's vice president of engineering and research, will be presenting. This interesting and informative webinar will be eligible for one PDH.

Register today at www.steelday.org.



Classified Ads



Saving on labor costs and time.

Introducing our NEW attachment solution for cellular deck products.

The benefits are many:

- Meets performance and capacity requirements in accordance with AISI S100-12 and AISI S310 and SDI Design Standards.
- Clean beam-to-pan rivet attachments, no more unsightly burn marks.
- Eliminates cost of field touch-up required with resistance welded cellular deck products.
- Rivets match and complement factory-applied primer, saving on labor costs and time to field-applied primer and touch-up of burn marks.

New to the west coast



Leading the way in providing the highest performance with the lowest installed costs.

Contact us for more information 800.726.2727 or www.ascsd.com

BOARD OF DIRECTORS

July 1, 2017 – June 30, 2018

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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(1 Delegate to SEAOC)

(2 Member of SEAOSC Exec. Cmte.)

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SEAOSC Executive Director

Dianne Ochoa
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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	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 Ciortea	213-897-0314	michael.ciortea@dgs.ca.gov
	Colin Kumabe	562-221-9418	ckumabe@gmail.com
Seismology	Josh Gebelein	213-596-4540	jgebelein@bjsce.com
	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@mwrdh2o.com
Quality Assurance	James McDonald	213-271-1912	jamcdonald@sgh.com
Sustainable Design	Vivian Peña	213-271-1966	vdpena@sgh.com
Summit	David Williams	213-596-4992	dwilliams@degenkolb.com
	Saeed Fathali	415-264-0029	sfathali@structuraltec.com

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