



Structural Engineers Association  
of Southern California

# SEAOSC NEWS

## JANUARY 2018

### INSIDE THIS ISSUE:

Presidents Message	2
Member Spotlights	6
SEAOSC Member News	7
SEAOSC News	8
SEAOSC Foundation	13
Committee Updates	16
Industry News	19
SEAOSC Events	21
Advertise/ Sponsor	27
Classified Ads	28
SEAOSC Board & Committees	30



## LA DINNER MEETING JANUARY 2018

Wednesday, January 10, 2018

Networking, Dinner & Presentation

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

[Register Here](#)

### PRESENTATION: SEAOSC/AIA JOINT EVENT – WALT DISNEY IMAGINEERING



Disney's iconic theme parks and structures transport guests to many imaginative times and places. Providing an inside look at the Disney theme park design process, this presentation will share how these unique structures come to be, and highlight lessons learned that can be applied by creative design teams to enhance the aesthetic of any project. While operating in different locations worldwide, the constants of safety, Disney quality, and guest experience must be assured at the highest level. Using examples from the various parks -

from the original 1950's Disneyland in Anaheim, California to the most recent park completed in Shanghai, China - Mr. Estes will discuss how Disney's unique design and construction practices address local infrastructure codes and the incredible diversity of site conditions. And with the variety of facilities contained within a single Disney theme park from retail and restaurants to rides and theaters, the overlap between static buildings and moving ride-based systems will certainly make this a dynamic conversation. While your everyday projects may not entail rushing water, high speed rides, or floating through time, the discussion of Disney's design processes and collaboration efforts among the varied project consultants will provide lessons that each of us can use to make every project a success.

### PRESENTER:

Kent R. Estes, Principal Structural Engineer  
Walt Disney Imagineering

Kent Estes has been in the practice of structural engineering for more than 40 years. For over 30 of those years, he worked on Disney theme parks on three continents in the architectural and engineering arm of The Walt Disney Company, Walt Disney Imagineering. He has recently moved back from Shanghai, China seeing to the design, construction and opening of Shanghai Disneyland. His role there was as the Design Manager for the Main Entry area where he managed a team of designers, architects and engineers and he was also the Lead Structural Engineer for the park, hiring and overseeing a team of local Chinese structural engineers. Kent has worked on a total of eight theme parks, from the beginning of design through to construction, in addition to many individual attractions. He is a licensed structural and civil engineer in California

and a licensed professional engineer in Florida. Kent also has a Ph.D. from the University of Southern California and has authored several technical papers.

SEAOSC Office: 562-908-6131 | [seaosc@seaosc.org](mailto:seaosc@seaosc.org)

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

6:30pm-7:00pm  
Dinner

7:00pm  
Presentation

**Cost:**  
Enroll on or before 12/29/17 for  
Early-Bird Discount

**Early Bird / Regular**

**Individual Tickets**  
Members: \$65 / \$65  
Non-Member: \$65 / \$75  
Students: \$35 / \$35

**Onsite Reg Fee: \$10**

**Reserve a Table of 8:**  
Member: \$465  
Non-Members: \$635

**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!](#)

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

(562) 908-6131  
[SEAOSC@SEAOSC.ORG](mailto:SEAOSC@SEAOSC.ORG)  
[WWW.SEAOSC.ORG](http://WWW.SEAOSC.ORG)

## Have you Renewed your Membership?

Review our membership flier ([www.seaosc.org/Membership-Application](http://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](http://www.seaosc.org/Find-an-Engineer)), used by the public, and Professional Development Program (\$50) to track continuing education as optional services for members. We look forward to your insight, passion and participation and the magnified IMPACT



**Robert "Bob" Lyons**  
President 2017-2018

*SEAOSC 2017-2018 Board*

*President: Robert "Bob" Lyons, SE*  
*President-Elect: Mehran Pourzanjani, SE*  
*Treasurer: Kenneth O'Dell, SE*  
*Past-President: Jeff Ellis, SE*

*Directors:*

*Donny Harris, SE*  
*Jackie Vinkler, SE*  
*Josh Gebelein, SE*  
*Massoud Abolhoda, SE*  
*Matt Barnard, SE*  
*Patti Harburg-Petrich, SE*  
*Sandra Biddulph, SE*  
*Todd Brown, SE*  
*Truong Huynh, PE*

# President's Message

Happy New Year to you and yours! Welcome to 2018.

I hope everyone had a great Holiday Season and was able to spend time with family.

I write this first SEAOSC President's message of the year from the side of Highway 1 in Big Sur California, high above the ocean below. A great background for inspiration to write fictional prose perhaps, but lacking even one bar of access to the internet that I usually use to gather facts as I prepare this message. I have only notes to use for reference.

Our feature event for December was the Holiday Party held at Parker's Lighthouse in Long Beach, across the harbor from the Queen Mary. The party is about having an enjoyable evening with friends and partners. This annual party was enjoyed by all, with positive feedback on the venue and ambiance of Parker's Lighthouse. The photographer once again this year was our very own member SE Dean Reyes. Photos will soon be available, or may already be available, on the SEAOSC website. We wish to recognize CSI for a very generous contribution that helped keep prices down, especially for our younger members. Thank you CSI for your support of this event and support for the engineering profession in general.

The February dinner meeting showcases one of the most attended and important dinner meetings of the year – The 2018 SEAOSC Foundation Student Scholarship and Career Fair. Details may be found on the SEAOSC website and in this newsletter.

- The SEAOSC Foundation, with assistance from SEAOSC Younger Member Committee, chaired by Maria Mohammed, and co-chaired by Noya Wang will present student scholarship awards. At this dinner, students selected from Southern California Universities based on merit will be awarded scholarships, including the recurring David and Margaret Narver Scholarship. The Narver family generously donates annually in honor of David and Margaret Narver, who valued educational pursuit.
- Representatives of local structural engineering firms and students from Southern California Universities seeking internships and permanent positions attend this Career Fair. If you are a structural engineering student, there is no better event for meeting with the firms that lead our Southern California structural engineering profession. If you are a firm seeking to increase staff with bright young structural engineering students, there is no better event than this.

## 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

We encourage members to visit the [Safer Cities](#) webpage for information on recent SEAOSC activities promoting community resilience. This web page presents information useful to engineers in their practice and in conversations with clients about seismic resilience. Consider sharing this link with your clients and potential clients.

## In this Newsletter

In this Newsletter, we highlight the enthusiastic activities and members of the very active **Existing Buildings Committee**, chaired by Daniel Zepeda and co-chaired by Garrett Hagen. We thank [Garrett Hagen](#), SE and Jonathan Buckalew, SE, committee members profiled in this newsletter along with the many unnamed committee members that give their time and energy to SEAOSC to make our Association stand out among other associations. **Together our efforts make an Impact!**

## Upcoming Events

### 2018 SEAOC Convention

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

The Structural Engineers Association of California issued a Call for Papers. For more information, visit the SEAOC website.

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

### January 10, 2018 - Joint SEAOSC and AIA event, [Walt Disney Imagineering](#)

Monthly dinner meeting Wednesday, January 10, 2018, 5:30 to 8:00 at the Doubletree by Hilton in Downtown LA - Kent Estes, Principal Structural Engineer with Disney Imagineering, will provide inside information on the Disney theme park design process. [AIA is inviting their members](#) to attend this event at member prices. Come join us, learn about the Disney Imagineering and network with architects and your fellow engineers. Be sure to invite your architectural clients to attend.

## 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

## January 19, 2018 - SEAOSC Safer Cities Seminar, Reconnaissance Team Report

Friday, January 19, 2018, 8:30 to 4:00 at the Long Beach Grand Event Center - In response to the September 19, 2017 magnitude 7.1 earthquake in Mexico City, **SEAOSC** dispatched the **Safer Cities Reconnaissance Team (SCRT)** to investigate, first hand, the aftermath of the earthquake. The team was composed of six highly qualified members from different Southern California firms including, **Daniel Zepeda, Ken O'Dell, Marty Hudson, Dion Marriott, Russell McLellan and Raul Jimenez**. In this first comprehensive presentation by the Recon Team, information presented will equip engineers to communicate important issues to their clients, including non-ductile concrete performance, improvement in performance of retrofit buildings, and the importance of seismic preparedness.

In addition to the reports provided by the Safer Cities Recon Team, members of FEMA's First Responders Team will start the seminar with a presentation to overview of their work in support of the search and rescue missions carried out in the immediate aftermath of the earthquake.

## January 23, 2018 - SEAOSC Webinar – Architecturally Exposed Steel (AESS)

Tuesday, January 23, 2018, 12:00 to 1:00 - This webinar, presented by Lorena Arce, PE, Structural Steel Specialist with AISC, will explain how and when to implement the AESS Category Method to effectively communicate the desired appearance for architecturally exposed structural steel in a format that contractors can understand. Attendees will learn factors impacting the implementation of AESS, learn how to identify and specify AESS in the contract documents, understand the expectations of fabrication and erection of AESS under the 2016 AISC Code, and learn methods for achieving AESS quality with relation to budget and schedule.

## February 2, 2018 - Winter Education Program, Steel Design

Friday, February 2, 2018, 8:30 to 5:00 at the Long Beach Grand Event Center – SEAOSC presents topics relevant to Steel Design, including updates on AISC Standards.

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

- **Changes to AISC 341 - Seismic Provisions for Structural Steel Buildings** presented by James O. Malley, S.E.
- **Steel Braced Frame Design per AISC 341-16** presented by Rafael Sabelli, S.E.
- **90 Seismic Ideas in 90 Minutes** presented by James Malley, S.E. & Rafael Sabelli, S.E.
- **AISC 358-16 Updates** presented by Tom Sabol, Ph.D, S.E.
- **Nonlinear Analysis of Steel Frames using ASCE 41** presented by Henry Burton, Ph.D., S.E.
- **Steel Outrigger/Belt Truss Design in Tall Buildings** presented by Leonard Joseph, S.E.

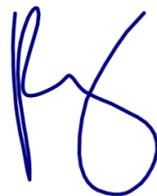
## February 7, 2018 - The 2018 SEAOSC Foundation Student Scholarship and Career Fair

Wednesday February 7, 2018, 3:30 to 8:30 at the Doubletree by Hilton in Downtown LA – Career Fair starts at 3:30, Scholarship, Dinner, Awards program and dinner presentation start at 6:30.

Please visit the [SEAOSC Event Calendar for events](#) of interest to our members, including SEAOSC seminars, webinars, special events and committee meeting announcements. We update the events regularly, so visit often.

In closing, it is with sad regret I inform you of the passing of Dr. Gary Hart, SE in October of 2017. The SEAOSC Board recently learned of this sad news and we will no doubt in the near future be able to provide a better more fitting remembrance of Dr. Hart.

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



Bob Lyons, SE  
President

# Member Spotlight



**Garrett Hagen, S.E. (CA, NV)**  
 Project Engineer  
 Degenkolb Engineers



**Jonathan Buckalew, S.E.**  
 Project Engineer  
 Nabih Youssef Structural  
 Engineers

**Email:** [ghagen@degenkolb.com](mailto:ghagen@degenkolb.com)

**Member Since:** 2008

**Current SEAOSC Role:** Co-Chair of Existing Buildings Committee

**Favorite Movie:** Blow

**Proudest Accomplishment:** Using a passion of mine to make other peoples' lives better

**Childhood Ambition:** Wanted to become an attorney because I liked to win arguments... maybe that's why I find myself in so many committees today.

**First Job:** Landscaping... learned quickly hard manual labor wasn't going to be my long-term gig

**Why Join SEAOSC:** A great opportunity to participate in a common goal with other passionate folks and improve community safety

**Email:** [jbuckalew@nyase.com](mailto:jbuckalew@nyase.com)

**Member Since:** 2009

**Current SEAOSC Role:** Southern California voting representative for SEAOC Existing Building Committee (EBC); Active member of both SEAONC and SEAOSC local EBCs; Voting member of SEAOC resilient design committee

**Favorite Movie:** Shawshank Redemption

**Proudest Accomplishment:** Being awarded the SEAONC Special Projects Initiative to study soft, weak, or open front (SWOF) buildings in 2012 and Co-authoring the SEAOSC Design Guide for wood frame buildings with SWOF wall lines in 2016

**Childhood Ambition:** Become an Engineer

**First Job:** Mandalay First job ever: Little Caesars & First real job after school: Nabih Youssef & Associates

**Why Join SEAOSC:** SEAOSC provides a great opportunity to learn from and contribute to our profession. Many of the members have helped write some of the codes that we use today or are currently writing the codes of tomorrow. That experience is invaluable and cannot be found in a text book or your day job projects. As you listen and learn from others, you will grow professionally and soon find opportunities to become one of those engineers that will lead our profession into the future. I have found this ability to grow the most rewarding aspect of being involved in SEAOSC.

# Welcome New Members

## Member SE

- ◇ Josh Plummer

## Member SE

- ◇ Eugene Barbeau, Los Angeles Department of Building and Safety
- ◇ Renato Cristi, Wheeler and Gray, Inc.

## Young Associate

- ◇ David Yermian, University of California, Berkeley
- ◇ Michael Mah, Nous Engineering
- ◇ Mit Gala, Nous Engineering

## Industry Member

- ◇ Tim Saenz, CEMEX

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



## Member Referral Program

SEAOSC Members can opt-in to the Referral Program for \$100 annually during dues renewals, July 1- August 31. You may opt-in anytime by contacting the SEAOSC office at [seaosc@seaosc.org](mailto:seaosc@seaosc.org). A listing will appear on [seaosc.org/Member-Services-Search](http://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 does not 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 | Building Forward LA

Matt Barnard, a director on the SEAOSC Board, presented the first 5 of the draft recommendations prepared by Building Forward LA at the 6th community engagement event this week. Implementation of these recommendations that touch on awareness, processes, incentives, use of data, celebrating, training, engagement, and leading could really change how we design and build in the City of Los Angeles. We can realize the vision for a Resilient City.

Held at LA Cleantech Incubator, the event premiered all 10 draft recommendations and then consisted of breakout discussions about what each recommendation meant to the attendees. Community and industry members shared thoughts on potential implementation strategies. Thank you to all of our members who attended the event; your contributions to this important effort is greatly appreciated. Stay tuned for the final report from the Building Forward LA initiative that will incorporate the invaluable feedback. It was shared that this report is expected late in Q1 of 2018.

If you have any questions about Building Forward LA, do not hesitate to contact Matt at [mbarnard@degenkolb.com](mailto:mbarnard@degenkolb.com)



## SEAOSC News | What's New in the Store

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

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



SEAOSC Safer Cities Royal Blue Polo Shirt—\$35.00

Port Authority, 60% polyester and 40% cotton



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

Port & Company, 65% polyester and 35% cotton

# Find an Engineer

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

SEAOSC has a helpful brochure to help you understand structural engineering and structural engineers entitled "What you need to know about Structural Engineering. It may be downloaded from our website at: [www.seaosc.org/resources/Documents/SEAOSCBrochureWeb.pdf](http://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](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](http://www.bpelsg.ca.gov/pubs/consumer_guide.pdf) published by BPELSG for additional information on selecting a qualified engineer.

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

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

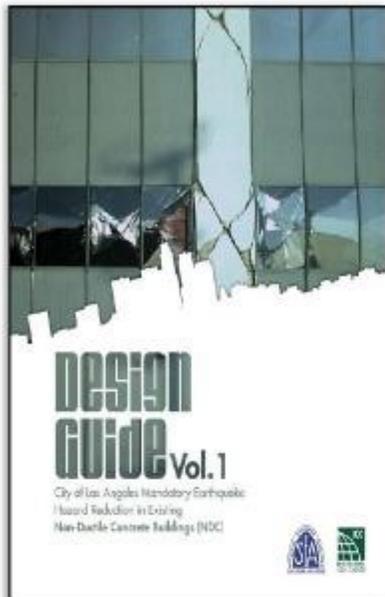
[Click Here](#) to learn more.

## Did you Know? SEAOSC Membership Includes:

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

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

# NDC and SWOF Seismic Retrofit Design Guides



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

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

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

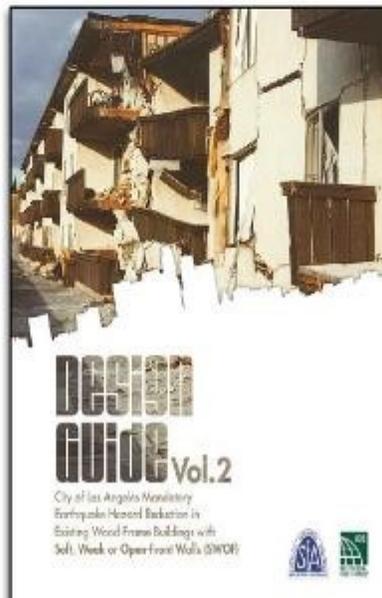
[Click Here to Purchase](#)

*Electronic Version also Available*

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

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

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



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





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

**We have something for you!**

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

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

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

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

All you need to do now is ask for us to help: send us an email at [seaosc@seaosc.org](mailto: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](mailto: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](mailto:foundation@seaosc.org)



## SEAOSC Foundation Student Scholarship

Dear Student Scholarship Supporter:

On Wednesday, February 7, 2018, the Structural Engineers Association of Southern California Foundation (SEAOSC Foundation) will award their 2018 SEAOSC Foundation Student Scholarships at the 2018 SEAOSC Student Night and Career Fair held at the Los Angeles Doubletree Hotel.

The SEAOSC Foundation will award scholarships to outstanding students from universities in the Southern California region. 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 resource for outstanding engineering students to further their education and pursue the challenging, yet rewarding and impactful profession of structural engineering.

The 2018 SEAOSC Foundation Student Scholarships will be awarded during the scholarship awards portion of the evening and will be preceded by SEAOSC's annual Structural Engineering Career Fair for SEAOSC's 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.

We cordially invite you and your firm to join your colleagues in contributing to the SEAOSC Foundation which funds the 2018 Student Scholarships and ask that you consider making an investment in the future of our profession through a donation toward the education of the next generation of leaders in the structural engineering profession. Your generous contribution will support and motivate the development of talented and hardworking structural engineering students. In recognition of your donation, the SEAOSC Foundation is coordinating with SEAOSC to offer the following benefits during the Career Fair and Student Night dinner event:

### Summa Cum Laude: Donations of \$5,000 and above

- ◇ Opportunity to share a Donor's Announcement from the Podium (up to 2 minutes in length)
- ◇ President's Recognition from the Podium
- ◇ A display table for your firm's use at the SEAOSC Career Fair
- ◇ 8 dinner tickets
- ◇ Company Logo prominently displayed in the Scholarship Awards Program
- ◇ Company Description and job opening listing in the Scholarship Awards Program
- ◇ Resumes of Students participating in the Career Fair Recognition on the SEAOSC Foundation Website for 6 months



## SEAOSC Foundation Student Scholarship

### Magna Cum Laude: Donations of \$2,500

---

- ◇ President's Recognition from the Podium
- ◇ A display table for your firm's use at the SEAOSC Career Fair
- ◇ 6 dinner tickets
- ◇ Company Logo prominently displayed in the Scholarship Awards Program
- ◇ Company Description and job opening listing in the Scholarship Awards Program
- ◇ Resumes of Students participating in the Career Fair
- ◇ Recognition on the SEAOSC Foundation Website (for 6 months)

### Cum Laude: Donations of \$1,500

---

- ◇ President's Recognition from the Podium
- ◇ A display table for your firm's use at the SEAOSC Career Fair
- ◇ 4 dinner tickets
- ◇ Company Logo displayed in the Scholarship Awards Program
- ◇ Company Description listed in the Scholarship Awards Program
- ◇ Resumes of Students participating in the Career Fair
- ◇ Recognition on the SEAOSC Foundation Website (for 6 months)

### President's Honor Roll: Donations of \$1,000

---

- ◇ A display table for your firm's use at the SEAOSC Career Fair
- ◇ 2 dinner tickets
- ◇ Individual/Company Name listed in the Scholarship Awards Program
- ◇ Company Description listed in the Scholarship Awards Program
- ◇ Resumes of Students participating in the Career Fair

### Dean's Honor Roll: Donations of \$500

---

- ◇ A display table for your firm's use at the SEAOSC Career Fair
- ◇ Individual/Company Name prominently listed in the Scholarship Awards Program
- ◇ Resumes of Students participating in the Career Fair

### Boosters Club: Donations between \$50 and \$499

---

- ◇ Individual/Company Name listed in the Scholarship Awards Program

To register your Donation, please visit the website at <https://seaosc.org/scholarship-donation>.

## Committee Updates | Existing Buildings Committee

The Existing Buildings Committee (EBC) published the Soft, Weak, or Open Front (SWOF) Wall Line Retrofit Design Guide in the Fall of 2016 capping a two year effort on the project. Part of this effort included providing the City of Los Angeles's SWOF Plan Check Unit guidance on the Information Bulletin (IB) detailing the technical requirements of the Ordinance.

The EBC has started work on a Pre-Northridge Steel Moment Frame (PN-SMF) design guide in response to the City of Santa Monica's recent PN-SMF Ordinance and has already completed a Frequently Asked Questions (FAQ) document to help engineers understand the intent of the PN-SMF Ordinance.

At the request of the SEAOSC Board, the EBC has drafted a technical paper providing guidance on how to use ASCE 7 to retrofit existing buildings. This paper is in the process of being finalized and published.

The EBC is currently working with the City of LA to detail the requirements of the 10 year evaluation report for their NDC Ordinance. In addition, various members of the EBC went to Mexico City for earthquake reconnaissance as part of the Safer Cities program and NSF. Their findings will be published in various articles and summarized in presentations.

### ASCE 41-17 Update

ASCE/SEI 41 is the standard for seismic retrofit and evaluation of existing buildings, required for all federal buildings, as well as several recently passed California ordinances. There have been several important updates to the standard in the upcoming ASCE/SEI 41-17. The updates will have significant impacts on the evaluation and retrofit approach for a variety of existing buildings.

Significant revisions were included for the standard's Basic Performance Objectives, seismic hazard used in Tier 1 and Tier 2, treatment of force-controlled components, nonlinear analysis provisions, non-structural performance levels, demands on out-of-plane wall forces, modeling parameters and acceptance criteria of steel and concrete columns, and anchor testing. The summary below covers a majority of the major updates:

- ◇ Tier 1 and Tier 2 require using the BSE-2E, instead of the BSE-1E, for Risk Category I – III BPOE.
- ◇ Both BSE-1E and BSE-2E performance objectives required to be checked for Risk Category IV BPOE.
- ◇ New nonstructural performance level, Hazards Reduced, addresses items that can have the same life safety consequences as a partial building collapse and requires that level be evaluated in the BSE-2E hazard level for the BPOE.
- ◇ Checklists changed from Life Safety to Collapse Prevention, Limited Safety, or Life Safety checklists.

# Committee Updates | Existing Buildings Committee

## ASCE 41-17 Update Continued

- ◇ Site specific response spectra and ground motion acceleration records are developed, selected and scaled to match the requirements in ASCE 7-16.
- ◇ A 1.3 factor augments demands on force controlled actions in the LSP and LDP when the performance objective is Life Safety and higher when demands are not determined using capacity design principals.
- ◇ Minimum number of acceleration histories needed for an analysis increased to 11.
- ◇ 10 of the 11 records cannot have an “unacceptable response” for Life Safety and lower and all 11 for Damage Control and higher.
- ◇ Overstress of a critical force controlled element, using expected strengths, in any record is considered an unacceptable response. This effectively requires all critical force controlled actions be designed for the maximum force in 10 or 11 records.
- ◇ One factor that increases force controlled demands in the NSP and NDP incorporated based on the criticality of the element and another factor for Life Safety and higher performance levels.
- ◇ Out-of-plane wall force and wall anchorage force equations revised.
- ◇ The material testing requirements for concrete are revised.
- ◇ SSI provisions further restrict their use with linear procedures.
- ◇ Steel columns are classified as force controlled and the modeling and acceptance criteria for them revised as well.
- ◇ Drift limit for panel zone acceptance added.
- ◇ Modeling and acceptance criteria for concrete columns updated.
- ◇ Testing of existing post-installed anchors in concrete added, such as tilt-up wall anchors.
- ◇ Requirements for URM spandrel beams added.
- ◇ Provisions for masonry infill rewritten.
- ◇ Penalty factor added to the capacity of wood structural panel walls and diaphragms when a 2x member is present instead of the 3x member that AWC SDPWS requires, i.e. when edge nailing along panel joints is 3” or less.
- ◇ Nonstructural provisions aligned with ASCE 7-16 Chapter 13.
- ◇ Seismic isolation and energy dissipation aligned with ASCE 7-16.
- ◇ URM Special Procedure to align with the IEBC Appendix A1.

## Committee Updates | Education Committee

The SEAOSC Education Committee had a great start this fiscal year with new and existing members meeting over the summer to discuss ideas and lay out a plan for educational events throughout the year. Since then, committee members have been hard at work coordinating high quality presentations for the SEAOSC membership. Our committee strives to help structural engineers improve both their technical and nontechnical skills through webinars, dinner meetings, and full day events. So far we've gotten a lot of positive feedback for events this fiscal year, along with helpful comments and suggestions for ongoing improvement.

One goal of the Education Committee this year was to organize and joint dinner meeting with AIA and encourage collaboration between engineers and architects outside of the office environment. The first of this kind of event is scheduled for the January 10th, 2018 dinner meeting, and we hope that it's success will lead to more joint events like this in future years.

The Education Committee has also been working to provide recordings of the SEAOSC webinars for sale through the SEAOSC website. This is an ongoing effort, and webinar recordings should be available soon.

The SEAOSC Education Committee is always open to feedback on educational events and suggestions for future presentation topics. Email [education@seaosc.org](mailto:education@seaosc.org) to reach out to the Education Committee with any comments or recommendations you have.



# Industry News | SEAOC News



## FIRST CALL FOR PAPERS 2018 SEAOC CONVENTION



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

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

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

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

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

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

If you have any questions please email [SEAOC2018@gmail.com](mailto:SEAOC2018@gmail.com).

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

Thank you!  
Sincerely,

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



# Industry News | 2018 SEAOC Convention



WELCOME TO THE 2018 SEAOC  
CONVENTION IN PALM DESERT



SEPTEMBER 12-14, 2018 AT THE JW MARRIOTT  
RESORT IN PALM DESERT

35 WEEKS      0 DAYS      23 HOURS      43 MINUTES      6 SECONDS

Visit <http://2018.seaoc.org/#savedate> for Details

# SEAOSC Events



## January LA Dinner Meeting—SEAOSC/AIA Joint Event Walt Disney Imagineering

January 10, 2018—Starts at 5:30pm  
 Doubletree by Hilton Los Angeles Downtown  
 120 S. Los Angeles Street, Los Angeles CA 90012

[Register Here](#)

The Disney's iconic theme parks and structures transport guests to many imaginative times and places. Providing an inside look at the Disney theme park design process, this presentation will share how these unique structures come to be, and highlight lessons learned that can be applied by creative design teams to enhance the aesthetic of any project. While operating in different locations worldwide, the constants of safety, Disney quality, and guest experience must be assured at the highest level. Using examples from the various parks - from the original 1950's Disneyland in Anaheim, California to the most recent park completed in Shanghai, China - Mr. Estes will discuss how Disney's unique design and construction practices address local infrastructure codes and the incredible diversity of site conditions. And with the variety of facilities contained within a single Disney theme park, from retail and restaurants to rides and theaters, the overlap between static buildings and moving ride-based systems will certainly make this a dynamic conversation. While your everyday projects may not entail rushing water, high speed rides, or floating through time, the discussion of Disney's design processes and collaboration efforts among the varied project consultants will provide lessons that each of us can use to make every project a success.

[Click Here to View Flyer](#)

## Safer Cities Seminar

Friday, January 19, 2018—Starts at 8:30am  
 The Grand Event Center  
 4101 East Willow Street, Long Beach, CA 90815

[Register Here](#)

Join Us For A Seminar on: Learning from the Mexico Earthquake

Topics:

- ◇ FEMA Task Force Urban Search & Rescue
- ◇ SEAOSC Safer Cities Recon Team Findings

# SEAOSC Events



## Webinar—Architecturally Exposed Structural Steel: Categorized by Design

Tuesday, January 23—12:00pm-1:00pm

[Register Here](#)

This webinar will explain how and when to implement the AESS Category Method to effectively communicate the desired appearance for architectural-ly exposed structural steel in a format that contractors can understand. Attendees will learn the factors which impact the implementation of AESS, learn how to identify and specify AESS in the contract documents, understand the expectations of fabrication and erection of AESS under the 2016 AISC Code, and learn methods for achieving AESS quality with relation to budget and schedule.

## SEAOSC Winter Education Program

Friday, February 2, 2018—Starts at 8:30am

The Grand Event Center

4101 East Willow Street, Long Beach, CA 90815

[Register Here](#)

Join Us For An Education Program on: Steel Design, Code Updates and More

Topics:

- ◇ AISC 341-16 Updates—Presented by James O. Malley, S.E., Degenkolb Engineers
- ◇ Steel Braced Frame design per AISC 341-16—Presented by Rafael Sabelli, S.E., Walter P. Moore
- ◇ 90 Seismic Ideas in 90 Minutes—Presented by James O. Malley, S.E., Degenkolb Engineers & Rafael Sabelli, S.E., Walter P. Moore
- ◇ AISC 358-16 updates—Presented by Tom Sabol, Ph.D, S.E., Englekirk Structural Engineers
- ◇ Nonlinear Analysis of Steel Frames using ASCE 41—Presented by Henry Burton, Ph.D., S.E., UCLA Civil & Environmental Engineering Department
- ◇ Steel Outrigger/Belt Truss Design in Tall Buildings—Presented by Leonard Joseph, S.E., Thornton Tomasetti



# LA DINNER MEETING JANUARY 2018

## Agenda:

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

6:30pm-7:00pm  
Dinner

7:00pm  
Presentation

## Cost:

Enroll on or before 12/29/17 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, January 10, 2018**

Networking, Dinner & Presentation

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

[Register Here](#)

## PRESENTATION:

### SEAOSC/AIA JOINT EVENT – WALT DISNEY IMAGINEERING



Disney's iconic theme parks and structures transport guests to many imaginative times and places. Providing an inside look at the Disney theme park design process, this presentation will share how these unique structures come to be, and highlight lessons learned that can be applied by creative design teams to enhance the aesthetic of any project. While operating in different locations worldwide, the constants of safety, Disney quality, and guest experience must be assured at the highest level. Using examples from the various parks -

from the original 1950's Disneyland in Anaheim, California to the most recent park completed in Shanghai, China - Mr. Estes will discuss how Disney's unique design and construction practices address local infrastructure codes and the incredible diversity of site conditions. And with the variety of facilities contained within a single Disney theme park, from retail and restaurants to rides and theaters, the overlap between static buildings and moving ride-based systems will certainly make this a dynamic conversation. While your everyday projects may not entail rushing water, high speed rides, or floating through time, the discussion of Disney's design processes and collaboration efforts among the varied project consultants will provide lessons that each of us can use to make every project a success.

## PRESENTER:

**Kent R. Estes, Principal Structural Engineer  
Walt Disney Imagineering**

Kent Estes has been in the practice of structural engineering for more than 40 years. For over 30 of those years, he worked on Disney theme parks on three continents in the architectural and engineering arm of The Walt Disney Company, Walt Disney Imagineering. He has recently moved back from Shanghai, China seeing to the design, construction and opening of Shanghai Disneyland. His role there was as the Design Manager for the Main Entry area where he managed a team of designers, architects and engineers and he was also the Lead Structural Engineer for the park, hiring and overseeing a team of local Chinese structural engineers. Kent has worked on a total of eight theme parks, from the beginning of design through to construction, in addition to many individual attractions. He is a licensed structural and civil engineer in California

and a licensed professional engineer in Florida. Kent also has a Ph.D. from the University of Southern California and has authored several technical papers.



# SEAOSC SAFER CITIES SEMINAR

## Join Us for a Seminar on Learning from the Mexico Earthquake

Friday, January 19, 2018

8:30am – 4:00pm

Registration Opens at 7:30am. Breakfast and Lunch is provided

The Grand Event Center

4101 East Willow Street, Long Beach, CA 90815

**Cost:** \$215 (Member) or \$430 (Non-Member)

**Sponsorships:** \$500: Tabletop Exhibit Display

\*\*Students with valid ID receive 50% discount off Member price\*\*

6 PDH Credits Available

Click Here to [Register](#) or Visit website at [www.seaosc.org](http://www.seaosc.org)

### FEMA Task Force Urban Search & Rescue

Four Structures Specialists will discuss their experience during a recent deployment to Mexico for the September 19, 2017, earthquake. They are part of Los Angeles County Fire Department's Urban Search and Rescue (US&R) Task Force. The main topics to be covered will include the essential duties and training of a Structures Specialist, as well as the personal experiences of the presenters during their deployment to Mexico City.

Los Angeles County's US&R Task Force is comprised of fire and rescue personnel, canine handlers, doctors, and civil engineers. The Task Force specializes in urban search and rescue, disaster recovery, and emergency triage and medicine. The teams are deployed to emergency and disaster sites within six hours of notification. The Federal Emergency Management Agency (FEMA) created the Task Force concept to provide support for large-scale disasters in the United States. Los Angeles County's US&R task force operates as one of FEMA's 28 domestic teams as CA-TF2. In addition, the Task Force also operates as one of two internationally-deployed teams under United States Agency for International Development's (USAID) Office of Foreign Disaster Assistance (OFDA) as USA-2.

### SEAOSC Safer Cities Recon Team Findings

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

- The effect of critical deficiencies on existing non-ductile concrete building performance
- The improvement of building performance when seismic retrofits are implemented
- The importance of seismic preparedness and planning for seismic resilience in Southern California cities

The team has prepared a series of detailed presentations that will outline these observations and conclusions in 4 segments:

- Reconnaissance Mission Introduction and Summary - The earthquake and the SCRT's work in perspective by team leader Daniel Zepeda
- Mexico City Earthquake Geotechnical Analysis - An in-depth review of the earthquake's characteristics and affected area's geology by soils and seismicity expert Marty Hudson
- Building Performance Report - A thorough review of the observed buildings' performance including identification of key vulnerabilities and successful retrofit techniques by engineers Dion Marriott and Russell McLellan
- Resiliency Assessment - A report of community challenges, the local community's response, and what Southern California can learn by senior engineer Ken O'Dell.



# WEBINAR:

## ARCHITECTURALLY EXPOSED STRUCTURAL STEEL: CATEGORIZED BY DESIGN

**Tuesday, January 23, 2018**

12:00pm-1:00pm

[Register Here](#)

**Date:**

Tuesday, January 23, 2018

**Time:**

12:00pm – 1:00pm

**Cost:**

Members: \$75

Non-Member: \$150

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

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

### PRESENTATION:

Architects want architecturally exposed Structural Steel on projects to meet their expectations for appearance, budget, quality and structural integrity. The category system implemented in the AISC Code of Standard Practice effectively communicates expectations and should be utilized on any AESS project. This webinar will explain how and when to implement the AESS Category Method to effectively communicate the desired appearance for architecturally exposed structural steel in a format that contractors can understand. Attendees will learn the factors which impact the implementation of AESS, learn how to identify and specify AESS in the contract documents, understand the expectations of fabrication and erection of AESS under the 2016 AISC Code, and learn methods for achieving AESS quality with relation to budget and schedule.

### PRESENTER



**Lorena Arce, P.E.**

Structural Steel Specialist

American Institute of Steel Construction

Lorena serves the Los Angeles Market; working with design professionals, she provides educational resource on the technical and economic aspects of building with Structural Steel.

Before joining AISC, Lorena worked as a Field Engineer for Hilti, developing application solutions by working with local design and construction professionals in the Los Angeles area. Lorena received her Bachelor of Science in Civil Engineering from CSU Long Beach with an emphasis in Structural Engineering. Lorena immediately began her career as a Design Engineer for VanDorpe Chou Associates in Orange, California. Under this service, Lorena obtained her registration as a California Professional Engineer.

Lorena has recently served on the Board of Directors for the Structural Engineers Association of Southern California and is now an active member on several of its committees.



# WINTER EDUCATION PROGRAM

Join Us For An Education Program on  
**Steel Design – Code Updates and More**

*Friday, February 2, 2018, 8:30am – 5:00pm*

*Registration Opens at 7:30am. Breakfast and Lunch is provided*

*The Grand Event Center*

*4101 East Willow Street, Long Beach, CA 90815*

**Cost:** \$215 - Member & \$430 - Non-Member

**Sponsorships:** \$500: Tabletop Exhibit Display

**\*\*Students with valid ID receive 50% discount off Member price\*\***

7 PDH Credits Available

Click Here to [Register](#) or Visit website at [www.seaosc.org](http://www.seaosc.org)

Topics (7 PDH Credits)

- **AISC 341-16 Updates**  
Presented by James O. Malley, S.E., Degenkolb Engineers
- **Steel Braced Frame design per AISC 341-16**  
Presented by Rafael Sabelli, S.E., Walter P. Moore
- **90 Seismic Ideas in 90 Minutes**  
Presented by James O. Malley, S.E., Degenkolb Engineers & Rafael Sabelli, S.E., Walter P. Moore
- **AISC 358-16 updates**  
Presented by Tom Sabol, Ph.D., S.E., Englekirk Structural Engineers
- **Nonlinear Analysis of Steel Frames using ASCE 41**  
Presented by Henry Burton, Ph.D., S.E., UCLA Civil & Environmental Engineering Department
- **Steel Outrigger/Belt Truss Design in Tall Buildings**  
Presented by Leonard Joseph, S.E., Thornton Tomasetti

SEAOSC Office: 562-908-6131 | [seaosc@seaosc.org](mailto:seaosc@seaosc.org)

The team has prepared a series of detailed presentations that will outline these observations and conclusions in 4 segments:

- Reconnaissance Mission Introduction and Summary - The earthquake and the SCRT's work in perspective by team leader Daniel Zepeda
- Mexico City Earthquake Geotechnical Analysis - An in-depth review of the earthquake's characteristics and affected area's geology by soils and seismicity expert Marty Hudson
- Building Performance Report - A thorough review of the observed buildings' performance including identification of key vulnerabilities and successful retrofit techniques by engineers Dion Marriott and Russell McLellan
- Resiliency Assessment - A report of community challenges, the local community's response, and what Southern California can learn by senior engineer Ken O'Dell.

SEAOSC Office: 562-908-6131 | [seaosc@seaosc.org](mailto:seaosc@seaosc.org)

# 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](http://www.seaosc.org) in a color.pdf format. 11 issues are published annually on a monthly basis, with the exception of a single, combined issue for July and August. The newsletter is available on the public portion of the website.

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

### Website Advertising

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

## Exhibit/Sponsor Opportunities

### Exhibit Opportunities

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

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

### Sponsorship Opportunities

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

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

# Classified Ads



## County of Sonoma—Civil Engineer & Senior Civil Engineer \$5,497 - \$10,108/Mo.

Transportation and Public Works (TPW) is now hiring Civil Engineers & Senior Civil Engineers. Join the County of Sonoma and receive comprehensive benefits and the opportunity for career advancement! Civil Engineer and Senior Civil Engineer positions do require experience and CA licensure as a Professional Civil Engineer issued by the State of California Board of Registration for Professional Engineers and Land Surveyors. \*Salary is negotiable commensurate with experience, salary history, and requirements. Benefits described herein do not represent a contract and may be changed without notice.

For more information, minimum qualifications, & to apply to either position, please visit: [www.yourpath2sonomacounty.org](http://www.yourpath2sonomacounty.org). EOE **Apply by 12/28/17!**



**Holmes**

## Holmes Structures—Structural Engineers

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

Send your resume with cover letter to [hr@holmesstructures.com](mailto:hr@holmesstructures.com)



## TKJ Structural Engineering—Structural Engineer

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

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

# Classified Ads



Irvine Institute of Technology—NCEES PE (Civil) License Exam Spring 2018 .

Breadth and Five Depth Areas - January 13, 2018- March 3, 2018

Lectures for NCEES – PE (Civil) Seminar – 9:00 am to 12 Noon – 1:00 pm to 4:00 pm, Sat and Sun. Breadth 6 days (36 hours) – \$720.00 PECV Manuals Vol. I, III, IV, V, VII, Steel

Loose Leaf – \$514.70

- ◇ Add any one of the five depth area subjects specified by NCESS
- ◇ Structures Depth 2 days (12 hours) – \$240.00 PECV Manuals Vol. II – \$94.95
- ◇ Geotechnical Depth 1 day (6 hours) – \$120.00 – Manual included with Breadth
- ◇ Transportation Depth 1 day (6 hours) – \$120.00 – Manual included with Breadth
- ◇ Water Resources Depth 2 days (12 hours) – \$240.00 PECV Manuals Vol. VI – \$94.95
- ◇ Construction Depth 1 day (6 hours) – \$120.00 PECV Manuals Vol. VIII \$94.95 and McGraw Hill Construction Workbook \$74.95

GUARANTEED PASS and FREE Archived Seminars for Repeats for one year. Failing the exam is a very big nuisance, since it will cost you, not only time, but also several hundred dollars of repeat exam fees.

Please visit [www.irvine-institute.org](http://www.irvine-institute.org) and register.

Your Ad Here

Your Ad Here

## 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.

**President**

Robert "Bob" Lyons, S.E.<sup>1,2</sup>  
 blyons@risha.com  
 818-729-9777

**President-Elect**

Mehran Pouzanzani, S.E.<sup>1,2</sup>  
 mehran@saifulbouquet.com  
 625-304-2616

**Treasurer**

Ken O'Dell, S.E.<sup>2</sup>  
 kodell@mhpsa.com  
 562-985-3200

**Immediate Past President**

Jeff Ellis, S.E.<sup>1,2</sup>  
 jellis@strongtie.com  
 714-738-2029

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

**Directors**

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

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

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

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

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

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

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

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

SEAOSC Executive Director  
 Dianne Ochoa  
 seaoscd@seaosc.org



## Structural Engineers Association OF SOUTHERN CALIFORNIA

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

Committees	Chair(s)	Phone	Email
Membership	Kerry Regan	323-536-2363	kregan@bbse.com
	Christian Cody	323-907-2523	christian.cody@hilti.com
	Kevin O'Connell	213-271-1934	kdoconnell@sgh.com
Subcmte: Golf Tourn.	Michelle Kam-Biron	805-498-4864	mkambiron@awc.org
Subcmte: Women in SE			
Younger Members	Noya Wang	213-271-1939	nanwang@sgh.com
	Maria Mohammed	310-323-9924	mmohammed@structuralfocus.com
Image & Public Relations	Samuel Mengelkoch	310-323-9924	smengelkoch@structuralfocus.com
Education	Matthew Michnewich	213-785-3195	mmichnewich@johnmartin.com
Professional Practices	Daniel Traub	310-254-1900	dtraub@walterpmoore.com
Building Codes & Stds.	Michael Ciorte	213-897-0314	michael.ciorte@dgs.ca.gov
	Colin Kumabe	562-221-9418	ctkumabe@gmail.com
Seismology	Josh Gebelein	213-596-4540	jgebelein@bjsce.com
	Subcmte: Steel Bldgs	Ashwani Dhalwala	310-828-1422
Existing Buildings	Daniel Zepeda	213-596-5000	dzepeda@degenkolb.com
Disaster Emergency Svcs.	Doug Litchfield	909-392-5353	dlitchfield@rmwdh2o.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.