

# Structural Engineers Association of Southern California

MAY 2018

## SEAOSC NEWS

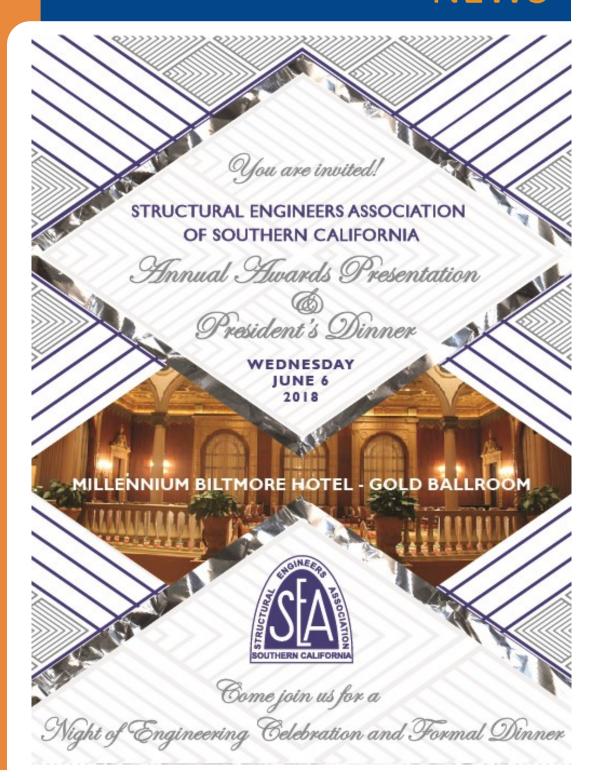
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SEAOSC 437 S. CATARACT AVE SUITE #4B SAN DIMAS, CA 91773

& Committees

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





Robert "Bob" Lyons President 2017-2018

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

The SEAOSC year, July I through June 30, is too quickly coming to a close. We, SEAOSC members and the board, have several important matters to attend to before the end of this SEAOSC year. Some of these are mentioned below.

The April Los Angeles dinner presentation was exciting and engaging. The topic — High Tech Building Design: Augmented and Virtual Reality. A panel of BIM experts, currently using augmented reality and virtual reality in their practices, gave us a glimpse into how far this technology has advanced and how we will be, and should be, using it. We will be seeing more of this. Many thanks to the group for sharing their experience and techniques with us. Panelists — Marcello Sgambelluri, BIM Director at John A. Martin & Associates, Brandon Mullins, Associate, Stantec Architecture, Sean Zook, Virtual design and Construction Modeling Manager at PCL, and Henry Yu, Founder and CEO of Kalloc Studios. President Elect Mehran Pourzanjani, Principal at Saiful Bouquet moderated. Thank you! Click for Photo gallery.

Annie Kao, Senior Field Engineer with Simpson Strong-Tie, moderated the discussion topic — Work/Life Balance as Structural Engineers at the Orange County April dinner meeting. As the reality of a 9 to 5 work day fades away, with 24/7 connectivity to work by phone and internet, accompanied by pressure from work to produce more every day, who cannot be interested in learning to achieving a desirable work/life balance? The panelists, representing a wide range of professional and personal situations discussed the topic. Panelists — Marcia Brown, Civil- Architectural Department Manager, Director at Flour, Krista Looza, Associate Principal, Buehler & Buehler Engineers, Maria Mohammed, Design Engineer with Structural Focus, Bryan Seamer, Associate Principal, Director of Structural Engineering with LPA, Inc, Ryan Smith, Western Regional Business Manager with SidePlate Systems, Inc. and Kirsten Zeydel, Structural Engineering Manager with Digital Building Components. Thank you Annie and panelists!

**Massoud Abolhoda,** Board Member and Building and Safety Manager with the County of Santa Barbara, presented at the **Tri-counties April dinner meeting**, held in Santa Barbara. Mr. Abolhoda spoke on a topic he is very familiar with – *Common Plan Check Issues Observed in Plan Check*. Attendees learned how to prepare more efficient plan check submittals and minimize back check effort and engineering time.

**Member Appreciation Day** at Dodger Stadium was a great success! About 80 people attended and we sold out the event! Members and their families and friends attended this annual event. This year's Member Appreciation Day was organized by the Membership Committee chaired by **Kerry Regan** and **Christian Cody**.

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# President's Message

NCSEA SE3 2018 Survey Structural Engineering, Engagement and Equity – I mentioned this survey in the last <u>newsletter message</u>. There is still time to participate! The survey closes at the end of May. If you have not yet taken the survey, please do. We will all benefit by having the sound data this survey will provide.

June 1, 2018 Spring Education Program – Updates in the Wood Code and Design Innovations, and ASCE 41 - 17 Updates and Examples.

- Ten Things You Should Know About the 2016 CBC, 2015 NDS & SDPWS and 2018 IBC & NDS - Michelle Kam-Biron, PE, SE, SECB, Senior Director, Education, American Wood Council
- Advancements in Force Transfer around Openings for Wood-Framed Shear Walls -Alese Ashuckian, P.E., LEED AP, Engineered Wood Specialist, APA
- Structural Design of Cross-Laminated Timber Construction Exposed to Blast Loads -Mark Weaver, S.E., principal, Karagozian & Case
- Concrete & Masonry Provision Updates in ASCE 41-17 Bill Tremayne, Technical Direction & Principal, Holmes Structures
- Steel Provision Updates in ASCE 41-17 Dan Bech, Principal, Holmes Structures
- Understanding the Principles and Procedures behind ASCE 41 Garrett Hagen,
   Design Engineer at Degenkolb Engineers

You are cordially invited to the <u>Structural Engineers Association of Southern California Annual Awards Presentation & President's Dinner</u> at the magnificent Millennium Biltmore Hotel – Gold Ballroom in Los Angeles.

This celebration will be held on the evening of June 6, 2018. We are planning a nonpareil event suited to the splendor of the occasion. Come join the celebration of the best of our profession, recognizing member accomplishments and projects deserving of the title Excellence in Engineering, recognition of the outgoing board members, installation of new board members, appreciation of past presidents and committee members, and more. We plan this to be an event to remember!

Members and their significant others are invited at member prices. Watch your email for your personal invitation or click the link above to download the invitation. Hope to see everyone there!

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# President's Message

Membership renewals – Membership renewals are due on July 1, 2018, so there is no rush yet. Please renew on time and encourage your colleagues and friends that are not yet members to join. Benefits of membership - click link for a pdf flyer that can be distributed - includes:

**Impact** – Make an impact on community, policy and your profession.

**Technical Forums** – Committees investigate and deliberate on codes, standards, legislation, technical policy issues, and professional practice matters.

**Customer Referrals** – Sign up for the website engineering referral service.

Networking – Events include a networking period. Talk to your peers, employers, building officials and government representatives.

**Added value** – When you join SEAOSC, you also join SEAOC and NCSEA.

**Promotion** – Promotion of the structural engineering profession.

**Education** – Monthly presentations, full day seminars, webinars throughout the year.

Professional Development Hours – Members are eligible to obtain PDH's for attending qualifying events.

**Recognition** – Recognition of member's outstanding efforts and engineering achievements.

Publication and event discounts – Obtain member discounts on SEAOSC and SEAOC publications and events. We work with other organizations to obtain discounts for SEAOSC members as well.

**SEAOSC** is the only organization in Southern California solely devoted to the structural engineering profession. We, PE's practicing structural engineering and structural engineers, owe it to ourselves and our profession to belong to the organization that represents us and only us, with no distractions by related but non-structural fields of engineering. Join the others, but secondary to SEAOSC membership.

**SEAOSC** is the oldest structural engineering association in the world. We formally became an Association in 1929 and next year marks our 90<sup>th</sup> anniversary! We will recognize this great achievement throughout the year next

year.

**Garry Myers, SE (1941 – 2018)** - It is with great sadness that I report Garry Myers, founding principal of MHP in Long Beach passed away in April. Garry was an active SEAOSC member and served the association in many capacities. Garry was awarded our highest honor in 2014, when he was named an Honorary Member of SEAOSC in special recognition of his contribution to the excellence of the structural engineering profession. Please read the article in this newsletter for more details on the life of Garry Myers.

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# President's Message

### 2018 SEAOC Convention repeat reminder

The 2018 Annual Convention to be held at the JW Marriott Spa and Resort in Palm Desert, California, September 12 through the 15, 2018. Start planning your week now.

### **Earthquake Anniversaries**

- For the last several newsletters, I noted the anniversaries of major earthquakes that occurred in the California region having historic significance.
   The <u>SEAOSC calendar</u> was populated with these events last year.
- For example, the 1994 Northridge Earthquake (6.7 Mw Earthquake, January 17, 1994 4:30 am), occurring on January 17, is noted in the calendar. The historic relevance of this earthquake, beyond the sheer magnitude and occurrence in a populated region, are the substantial code improvements that resulted and the significant research performed on structural systems found to be seismically vulnerable, especially steel moment resisting frames.

Having found no May events meeting the criteria, I went searching outside our region for a noteworthy earthquake. On May 22, 1960, the <u>Bio-Bio earthquake in Chile</u> (aka Valdivia Earthquake) occurred. The <u>USGS website</u> lists this M 9.5 (1960-05-22 19:11:20 UTC) earthquake as number one on a list of top 20 largest earthquakes. This was one of a sequence of earthquake occurring in the region in May and June of 1960.

The <u>SEAOSC Calendar of Events</u>, in addition to listing SEAOSC events, includes committee meeting schedules. Members are invited to <u>review committee charges</u> and attend scheduled meetings of possible interest. It is suggested you contact the chair or co-chairs in advance.

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

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Bob Lyons, SE President

# Member Spotlight



Peter John Maranian, B Sc. (hons), PE, SE, Chartered Engineer (UK) Brandow and Johnston Principal

Email: pmaranian@bjsce.com; pjmaranian.se@gmail.com

Member Since: 1981

Current SEAOSC Role: Member of the Steel Committee (Past Chair,

1998 to 2006).

Favorite Movie: Life of Brian (Monty Python).

Proudest Accomplishment: Leading the team at Brandow and Johnston on the Wilshire Grand project in LA and for the ASCE publication "Reducing Brittle and Fatigue Failures in Steel Structures."

Childhood Ambition: Designing buildings.

First Job: Assistant at the Building Research Station (England): worked with Dr. R.H Wood and G. Armer including testing of slabs to failure (1966).

Why Join SEAOSC: For the opportunity to learn, stay in touch with current state of the art, participate and contribute to the development of this noble profession.

### Welcome New Members

#### **Member**

♦ Tom Lopez, TSL Consulting Engineers, Inc.

#### **Associate**

- ♦ Phuoc Tran
- ♦ Yuqiao Mao, KNA Structural Engineers, Inc.

### **Young Associate**

- ♦ Gagandeep Singh Randhawa, Saiful Bouquet
- Surbhi Dadlani, Englekirk Structural Engineers

### **Industry Member**

- Jennifer Link Raschko, USG
- Moe Tajvidi, Seismic Retrofit Solutions

SEAOSC is a membercentric 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 <a href="mailto:seaosc.org/Member-Services-Search">seaosc.org/Member-Services-Search</a> 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 I credit for each contact hour of continuing education. Click Here to learn more.

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### SEAOSC News | Member Appreciation Event — A Success!



The Seaosc Annual Member Appreciation Event was a member favorite and a definite success. With the unlimited hot dogs, popcorn, nachos, peanuts and soda even the non-baseball fans had a reason to celebrate. Who knew structural engineers had so much blue in their closets? Unfortunately the Dodgers did not win, but the cool spring evening and the firework display viewed from the field made for an unforgettable event. Thanks to all who participated!





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# SEAOSC News | April Dinner Event Recap

SEAOSC members got an in-depth look at the state-of-the-art in design and construction technology at the April dinner meeting. The evening's presentation consisted of a panel discussion revolving around Augmented Reality (AR) and Virtual Reality (VR) technology and systems, which are revolutionizing the AEC industry. Moderated by Mehran Pourzanjani, the SEAOSC President Elect, the distinguished panel featured representatives from the fields of engineering, architecture, construction, and software development. Enhancing the experience were special AR and VR exhibits during the social hour, allowing attendees to use AR and VR systems first hand and gain a real impression of impact this technology can have. We hope that everyone enjoyed the demonstrations and received an informative introduction to how AR and VR can be used to improve project collaboration, streamline productivity, and impress clients on projects today and in the future. Special thanks to our panelists and the event sponsors for their generosity in helping make this a successful event!



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### SEAOSC News | OC Dinner Event Recap — Work Life Balance

Do you or your employees have happy healthy work-life balance? This was the topic of our OC Dinner Event, curated by SEAOSC Women in Structural Engineering group. The panelist provided some insight to this very important topic in balancing and prioritizing between "work" (career and ambition) and "lifestyle" (health, pleasure, leisure, family and spiritual development/meditation).







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### SEAOSC News | Tri-Counties Dinner Event Recap

Massoud Abolhoda, Board Member and Building and Safety Manager with the County of Santa Barbara, presented at the Tri-counties April dinner meeting, held in Santa Barbara. Attendees learned how to prepare more efficient plan check submittals and minimize back check effort and engineering time.







# 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, SEAOCC, and SEAOC.

Confirm the engineer's State Registration.

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



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

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

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

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

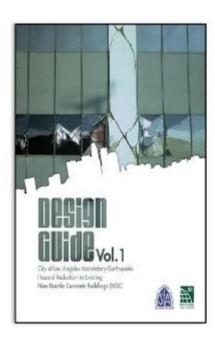
Click Here to learn more.

### Did you Know? SEAOSC Membership Includes:

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

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

# NDC and SWOF Seismic Retrofit Design Guides



This design guide discusses and demonstrates methodologies for the seismic evaluation and strengthening of existing non-ductile concrete buildings. While aspects of this guide focus on the mandatory City of Las Angeles earthquake hazard esduction 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 tos Angeles Building Code based on the 2015 International Building Code and ASCE 41-13. This guide is an excellent securce for practicing professional engineers, architects, building officials, accodemics, 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

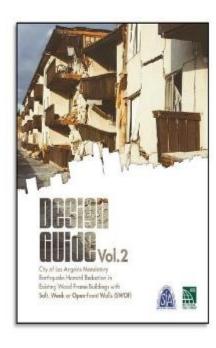
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Available

This design guide provides an example and detailed commentary for the seismic strengthening of existing secod-frame buildings with soft, weak or open-front (SWOF) wall lines accipied to the recently passed mandatory los Angeles Ordinances. The design example in this guide demonstrates a prescriptive, and onance-based introfit approach for a typical open-front wall line. Following this example, a demonstration is given showing how FEMA PBOT could be used to design a netroit for the same example building.

Commentary in the guide discusses challenges inherent in this type of renalit 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 and 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
expreses, architects, building afficials, 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



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# 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



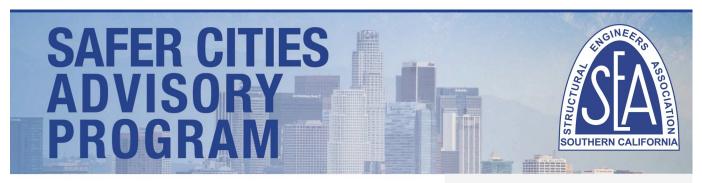


SEAOSC Safer Cities Royal Blue Polo Shirt—\$35.00 Port Authority, 60% polyester and 40% cotton





SEAOSC SEAOSC Safer Cities Royal Blue T-Shirt—\$15.00 Port & Company, 65% polyester and 35% cotton



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

#### We have something for you!

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

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

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

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

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

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

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



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

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



### 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

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### Committee Updates | Building Codes & Standards

### Notes from the Building Codes & Standards Committee – Safer Cities Advisory Program Task Group – City of West Hollywood

In an effort to keep the SEAOSC Members better informed, updates by the SEAOSC Building Codes and Standards Committee will provide information on the development process for many codes, including the I-Codes, ASCE 7, ACI, AISC, AISI, AWC, etc. This month, one of the committee's focus items was on the City of West Hollywood's seismic retrofit ordinance.

In late December 2017, SEAOSC received a request from the City of West Hollywood to assist with the review of draft seismic design guidelines, a collection of policies on the design of the existing wood soft story building retrofit. SEAOSC convened a task group consisting of SEAOSC members with expertise in design of wood soft story building retrofit to meet with the City of West Hollywood officials and comment on the draft guidelines. The City of West Hollywood expects to publish the final guidelines in a few weeks. Please contact the Committee Co-Chairs, Michael Ciortea SE and Colin Kumabe SE, if you wish to be considered for a future Safer Cities Advisory Program task group.

Information on the City of West Hollywood retrofit program may be found at: https://www.weho.org/city-hall/city-departments-divisions/community-development/building-and-safety/seismic-retrofit.

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### Committee Updates | Steel Committee

The steel committee has been continuously active for the past 20 years. The primary focus of the steel committee is to improve the performance of steel structures including economic considerations. The scope of the committees work consists of all aspects of structural performance such as performance based engineering, energy based concepts, fracture mechanics, building code issues, QA and QC, welding issues, soil structure interaction, existing and new buildings and use of shipping containers.

It participated in the review of SAC documents and has developed several documents related to the performance of steel structures. Currently the committee tasks include additional recommendations for soft story retrofits, use of structural steel for the retrofit of non ductile reinforced concrete structures, retrofit of pre north ridge steel moment frames, development of recommendations for use of shipping containers in residential and commercial construction and development of energy based concepts.

The committee welcomes participation by SEAOSC members. Interested individuals can send a brief CV and the area of interest to Ashi Dhalwala (email: <a href="mailto:aecsol15@gmail.com">aecsol15@gmail.com</a>).

#### Steel Committee Mission Statement:

The Committee strives to achieve reduced cost of ownership ("COE") and improved performance of steel structures by assimilating current and past research and developing actionable information regarding design/assessment concepts for use by practicing structural engineers.

### Scope of Committee Work:

The scope of work of the Committee consists of integrating a wide range of subjects specific to steel structures including, but not limited to, Southern California specific seismicity, site specific seismicity, soil structure interaction, code provisions/standards and QA issues for both existing and new construction, energy based design/assessment concepts and use of fracture mechanics for the assessment of steel joints. The Committee's work includes developing solutions for unresolved connection performance issues, including those described in FEMA 355, other connection performance related issues identified by the Committee, use of steel frames in non-ductile concrete and Type V buildings, and the use or repurposing of intermodal shipping containers as building modules or structural building components. The Committee proposes to interact directly with the SEAOSC Board as well as coordinating its activities with other SEAOSC committees to further these goals.

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# Industry News | SEAOC News







### **CONTACT**

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

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### Industry News | NCSEA 2018 YM Summit Awards

# 2018 STRUCTURAL ENGINEERING SUMMIT October 24–27 | Sheraton Grand | Chicago, IL

Lets celebrate and congratulate our Young Members! Each year, NCSEA recognizes its Young Members and Young Member Groups with awards that help fund their experience at the <u>Structural Engineering Summit</u>. The winning Young Member Group and the Summit Scholarship recipients will be recognized at the Young Engineer Reception at this year's Summit in Chicago on Wednesday, October 24th.

### Young Member Summit Scholarship

This scholarship awards new and returning SEA young members funding to attend the NCSEA Structural Engineering Summit, which includes a free registration and, for new attendees, a travel stipend. Young members have the choice to submit applications with written essays or video entries.

Learn More & View Last Year's Recipients

#### Young Member Group of the Year

This award recognizes an outstanding SEA Young Member Group that is providing a benefit to their young members, member organization, and communities. Three finalists will receive complimentary registration to send a representative from their YMG to the NCSEA Summit.

Learn More & View Last Year's Finalists

Applications are due Friday, June 1st!

Apply for a Scholarship | Apply for YMG of the Year





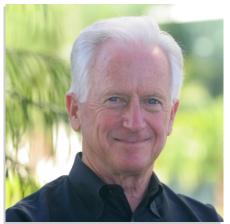
Did you know that SEA Young Members receive a special registration rate for the Summit? Click here to read more about what Young Members receive when they register as a Full Conference or Full Conference Plus attendee!

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### Industry News | Condolences — Garry Myers

#### THOUGHTS AND RECOLLECTIONS

Garry D. Myers, SE (1941 - 2018)



It is with sadness that we share the loss of a great friend, partner, mentor, and Gentleman Engineer. Garry D. Myers, S.E. was the founder and leader of a successful structural engineering firm that has designed and strengthened thousands of buildings. Garry founded G.D. Myers & Associates in 1973. The firm grew quickly, and went through several name changes as partners Rawn Nelson and David Houghton were brought on board. Additional partners were cultivated internally, and the firm ultimately became MHP, Inc., which operates with a staff of nearly 40 from its office in Long Beach.

Garry presided over MHP for 40-years. Through his leadership of the company and his nurturing and mentoring of his staff, he affected hundreds of employees in a positive way. Under Garry's leadership, the firm completed many notable projects, including the Citadel Outlets, Commerce Casino Hotel Expansion, numerous support structures for the 1984 Los Angeles Olympics, and many dozens of schools, hospitals and office buildings. The firm's footprint throughout Southern California is extensive and continues to grow.

Garry was an excellent engineer and had a passion for strengthening buildings. After the 1994 Northridge earthquake, Garry and partner David Houghton developed the SidePlate connection technology as a solution to the unexpected weld damage suffered in that event. SidePlate has grown and is perhaps the preeminent steel moment frame connection technology available today.

Garry was an active member of the Structural Engineers Association of Southern California with recent efforts focused on assisting with the 2015 and 2016 Strengthening our Cities Summits. Garry was made an Honorary Member of SEAOSC in 2014 in recognition of his contributions to the excellence of the structural engineering profession.

The employees at MHP remember Garry's passion for the firm, his genuine care for and nurturing of all the employees, and his positive outlook on life; attributes which were, are, and will continue be embedded within the fabric of the firm which bears his imprint.

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# **Industry News** | **ASCE Distinguished Member**



1801 Alexander Bell Drive Reston, VA 20191-4382 (800) 548.2723 toll free (703) 295.6300 intl (703) 295.6333 fax ■ www.ASCE.org

### News Release

May 2, 2018

Contact: Emily Castellanos (202) 789-7846 ■ ecastellanos@asce.org

### Seismic Design Expert Named Distinguished Member of the American Society of Civil Engineers

RESTON, Va. – Robert E. Bachman, P.E., S.E., F.SEI, M.ASCE, was named a Distinguished Member of the American Society of Civil Engineers (ASCE). This is the highest honor to which a civil engineer can aspire; in the Society's 163-year history only 698 people have been elected to the honor. He will be inducted on Sunday, October 13, 2018 at the Celebration of Leaders Luncheon during ASCE's 2018 Convention, in Denver, Colo.

Bachman is recognized for the development of modern seismic design provisions adopted into the building codes of California and the United States. For the past 18 years he has been the senior principal of his own consulting structural engineering practice in Laguna Niguel, Calif. Bachman's work to improve life safety, cost-efficiency and resiliency have made him a leader in the practical advancement in seismic resistance of structures, components and equipment of all types.

As the chair of the Structural Engineers Association of California (SEAOC) State Seismology Committee, Bachman led the reorganization and development of landmark seismic provisions of the 1997 Uniform Building Code including an unfunded effort to create, develop and publish near field ground motion maps that allowed for the consideration of higher seismic forces near faults for the first time in the state's history. Bachman also led the user-friendly focused development of a second set of landmark seismic provision found in ASCE 7-05. Since its inception in 1989, Bachman has led the development of Seismic Guidelines for the California Risk Management and Prevention Program and California Accidental Release Prevention Programs. These guidelines focused on seismic evaluations of existing industrial facilities that contain hazardous materials, and as a result of his work on this project, the new guidelines have been adopted by jurisdictions throughout California and are utilized throughout the world.

His many awards include most notably, the 2015 ASCE William H. Wisely American Civil Engineer Award, the ASCE Structural Engineering Institute (SEI) Walter P Moore Award, the Building Seismic Safety Council (BSSC) Honors Award, and the National Council of Structural Engineers Association (NCSEA) James Delahay Award. He also was awarded honorary membership to both the Structural Engineers Association of Northern California (SEAONC) and the Structural Engineers Association of Southern California (SEAOSC) and is a SEAOC Fellow.

He holds a bachelor's degree in civil engineering and a master's degree in structural engineering from the University of California, Berkeley and is a licensed civil and structural engineer in California.

Founded in 1852, the American Society of Civil Engineers represents more than 150,000 civil engineers worldwide and is America's oldest national engineering society. Through its strategic initiatives, ASCE works to raise awareness of the need to maintain and modernize the nation's infrastructure using sustainable and resilient practices, advocates for increasing and optimizing investment in infrastructure, and seeks to "Raise the Bar" on engineering knowledge and competency. For more information, visit www.asce.org and follow us on Twitter, @ASCETweets and @ASCEGovRel.

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### Industry News | NCSEA Nationwide Survey



### **SEAOSC Input is Essential to the SE3 Survey**

The NCSEA Structural Engineering Engagement and Equity (SE3) Committee is currently administering a nationwide survey of structural engineering professionals. This survey is designed to provide valuable information about the profession regarding demographics, compensation, satisfaction, and engagement. It will be one of the largest comprehensive nationwide surveys of structural engineering professionals to date.

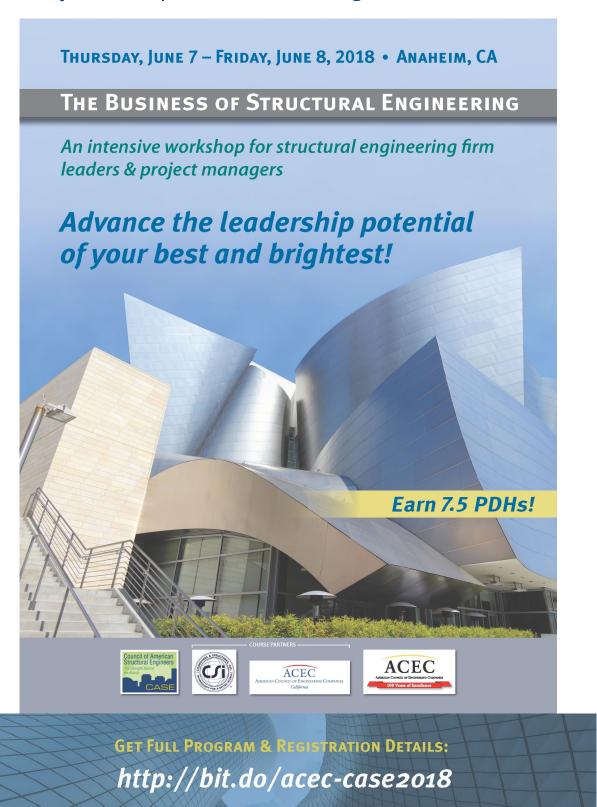
This project began in 2015 when SEAONC (Structural Engineers Association of Northern California) funded a committee to study engagement and equity in the structural engineering profession. In 2016, this group administered their first national survey of over 2,100 structural engineering professionals. Findings from this study included insight into why engineers leave the profession, the importance of mentorship, and the existence of a nuanced gender pay gap.

In mid-2017, an SE3 Committee was created at the national level through NCSEA (National Council of Structural Engineers Associations) with the primary goal of administering a similar nationwide study of structural engineering professionals every two years. This biennial survey will focus on measuring engagement and equity with the goal of providing data and best practices to help ensure that every structural engineering professional has a positive experience within the profession.

The 2018 version of this survey is live now through the end of May! If you'd like to participate, a link to the survey is available on the SE3 website at <a href="http://www.ncsea.com/committees/se3/">http://www.ncsea.com/committees/se3/</a>.

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### Industry News | CASE Workshop Anaheim



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### **SEAOSC Events**



Spring Education Event—Updates in the Wood Code and Design Innovations and ASCE 41-17 Updates and Examples

Friday, June 1, 2018—8:00am Register Here

### Updates in the Wood Code and Design Innovations:

The wood presentations will commence with an overview of significant changes and commonly overlooked provisions in the 2016 CBC, 2015 NDS & SDPWS and provide an overview of the changes in the 2018 IBC and NDS. The second part will consist of an overview of CLT design and focus on the use of CLT for blast-resistance applications. The wood presentations will end with an overview of wood-framed shear walls with openings and asymmetric piers, and provide an overview of APA's new design tool for Force Transfer Around Openings (FTAO).

### ASCE 41-17 Updates and Examples:

Significant changes to seismic evaluation and retrofit procedures are made to the 2017 edition of ASCE/SEI 41 Seismic Evaluation and Retrofit of Existing Buildings. The presentations will highlight the most significant updates to the provisions including steel, concrete, and masonry as well as a general overview that will review the basics and philosophy behind the document.

### The Annual SEAOSC End-of-Year Awards & President's Dinner

Wednesday, June 6, 2018—5;30pm

#### Register Here

The Annual SEAOSC End-of-Year Awards & President's Dinner will be a great evening recognizing the amazing accomplishments of our membership. Also, we'll honor the talent, dedication, and passion of our leadership who advance efforts to advocate and promote the noble profession of structural engineering. We look forward to your participation in this important event, helping promote the profession and excellence!

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# **SEAOSC Events**



SEAOSC Annual Golf Tournament

SAVE THE DATE

Monday, August 27, 2018—10:00am

Details Coming Soon



### SPRING EDUCATION PROGRAM

### Join Us For A 1 Day Education Event focused on

# Updates in the Wood Code and Design Innovations and ASCE 41-17 Updates and Examples

Friday, June 1, 2018, 8:00am - 3:40pm

Registration Opens at 7:30am. Breakfast and Lunch are 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\*\*

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

#### **Updates in the Wood Code and Design Innovations:**

The wood presentations will commence with an overview of significant changes and commonly overlooked provisions in the 2016 CBC, 2015 NDS & SDPWS and provide an overview of the changes in the 2018 IBC and NDS. The second part will consist of an overview of CLT design and focus on the use of CLT for blast-resistance applications. The wood presentations will end with an overview of wood-framed shear walls with openings and asymmetric piers, and provide an overview of APA's new design tool for Force Transfer Around Openings (FTAO).

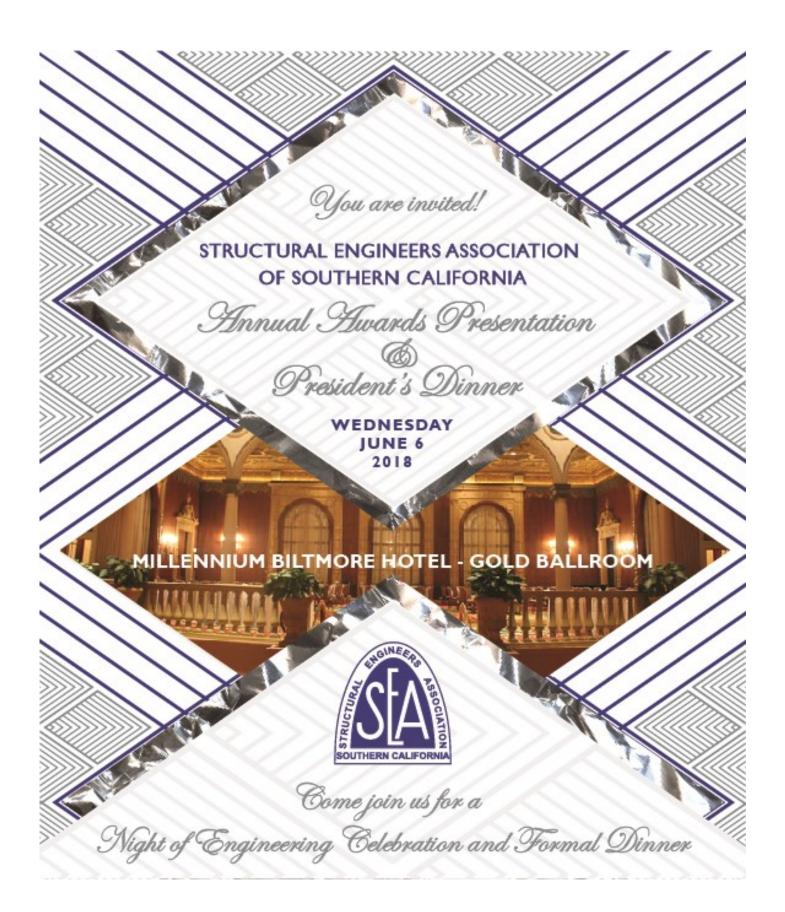
#### **ASCE 41-17 Updates and Examples:**

Significant changes to seismic evaluation and retrofit procedures are made to the 2017 edition of ASCE/SEI 41 Seismic Evaluation and Retrofit of Existing Buildings. The presentations will highlight the most significant updates to the provisions including steel, concrete, and masonry as well as a general overview that will review the basics and philosophy behind the document.

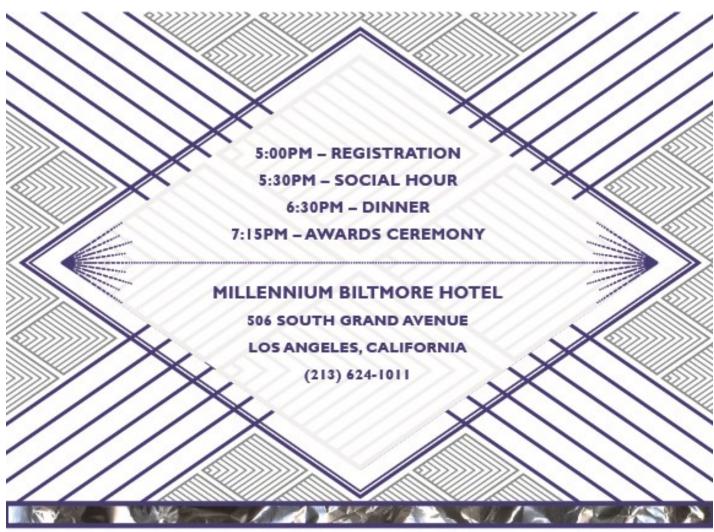
### **Topics & Presenters:**

- Ten Things You Should Know About the 2016 CBC, 2015 NDS & SDPWS and 2018 IBC & NDS Michelle Kam-Biron, PE, SE, SECB, Senior Director, Education, American Wood Council
- Advancements in Force Transfer around Openings for Wood-Framed Shear Walls Alese Ashuckian, P.E.,
   LEED AP, Engineered Wood Specialist, APA
- Structural Design of Cross-Laminated Timber Construction Exposed to Blast Loads Mark Weaver, S.E., principal, Karagozian & Case
- Concrete & Masonry Provision Updates in ASCE 41-17 Bill Tremayne, Technical Direction & Principal, Holmes Structures
- Steel Provision Updates in ASCE 41-17 Dan Bech, Principal, Holmes Structures
- Understanding the Principles and Procedures behind ASCE 41 Garrett Hagen, Design Engineer at Degenkolb Engineers

SEAOSC Office: 562-908-6131 | seaosc@seaosc.org



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### PRICING INFORMATION

Students: \$35 by May 25th / \$45 Regular

Members: \$55 by May 25th / \$65 Regular | Non-Members: \$65 by May 25th / \$75 Regular

Click **HERE** to register or visit our website at www.seaosc.org



### ► SPONSORSHIP OPPORTUNITY INFORMATION ◀



Red Carpet Registration -\$500 (1 available) - Sponsors logo on registration table and program

Bar - \$500 each (2 available) - Sponsors logo on bar and program

Platinum - \$2000 (1 available) - Full table of 8 - Name recognition in announcements/invitations, screen, and program

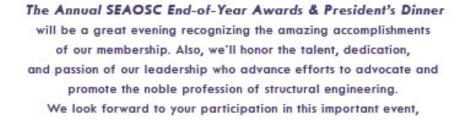
Gold - \$1200 - Full table of 8 - Name recognition in announcements/invitations and program

Silver - \$600 - Full table of 8 - Name recognition in program

Bronze - \$400 - Half table of 4 - Name recognition in program

Individual - \$125 - Name recognition in program

\*Other than the Platinum Sponsorship, non-members add 15% to the cost of sponsorship with tables. See website for more information.



#### AWARDS

helping promote the profession and excellence!

SEAOSC annually recognizes our members' project excellence through our Excellence in Structural Engineering (EiSE) Awards Program and our member's service excellence through our "People Awards" such as SEAOC Fellow, Honorary Member, and Engineer of the Year.

#### **BOARD OF DIRECTORS**

SEAOSC will honor the departing board members for their dedicated service to the Association and will welcome new Board members for the 2018-2020 term.

#### SEAOSC PAST PRESIDENTS

SEAOSC will honor you with one complimentary dinner and recognition for your past and current contributions. SEAOSC will email you with details on registering for the dinner.

#### **EXCELLENCE IN STRUCTURAL ENGINEERING AWARDS**

SEAOSC will email you details on registering for the dinner. Please remember to pick up your poster boards at the conclusion of the evening if you wish to retain your board(s).

#### **VOLUNTEERS & COMMITTEE MEMBERS**

If you have served SEAOSC this past year in a volunteer capacity or on a committee, please attend this event as you may be recognized too. Committees are the backbone of our association and have done great work! Please register for dinner online.

#### **SPOUSES & SIGNIFICANT OTHERS**

We invite you to attend and meet the engineers who have become friends throughout the year. Members, please register your guest when registering for your dinner registration for your guest to receive the member's rate.

SEAOSC OFFICE: 562-908-6131 | 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 in a color.pdf format. I I 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)
- Winder Education Programs (January)
- Spring Education Programs (April/May)
- Annual End-of-Year Awards & Past President's Dinner (June)
- Annual Golf Tournament (August)
- SEAOSC Summit (November)
- Monthly Dinner Meetings

### **Classified Ads**



### Holmes Structures—Structural Engineers

Holmes Structures is a California structural engineering firm, with offices in Los Angeles and San Francisco. We are part of the New Zealand based Holmes Group, with offices around the Pacific Rim. Holmes takes an imaginative and resourceful approach to projects, challenging es-

tablished 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 <a href="https://heinres.com">hr@holmesstructures.com</a>

### KNA Structural Engineers—Structural Engineers



KNA Structural Engineers has immediate openings for motivated engineers at all experience levels. KNA specializes in structural engineering of educational, civic and healthcare facilities. We provide our staff with a dynamic and innovative office environment. We offer long-term growth and success for our employees thru competitive compensation, benefits package,

and a balanced work lifestyle. Flex hours are available. Learn more about KNA at knastructural.com.

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

Qualified candidates are invited to submit their resume along with a cover letter via our careers page at knastructural.com. Please verify that you meet the required qualifications prior to submitting. No phone calls please.



#### Doyle-Morgan Structural Engineering, Inc.

DMSE is looking for a licensed P.E. with 3-5 years of experience in structural engineering. We offer long-term growth in support of your success, with a balanced work lifestyle. This is a unique career opportunity at <a href="https://www.doyle-morgan.com">www.doyle-morgan.com</a>.

We welcome the P.E. interested in laying the groundwork for partnership potential. If you are an excellent engineer that is personable, positive, and collaborative, we want to talk to you.

Qualifications: BS in Architectural or Structural Engineering; knowledge of the California Building Code; proficiency in concrete, steel, masonry and wood design; able to develop and review drawings and calculations; demonstrated experience interacting with clients; software skills including: AutoCAD, MS Excel; Risa (or equivalent).

DMSE takes great pride in team building through positive and professional interaction in a friendly environment within a beautiful work setting. Your resume and cover letter are confidential. E-mail: <a href="mailto:pjones@doyle-morgan.com">pjones@doyle-morgan.com</a> with the subject line "ENG SEAOSC.

### **Classified Ads**

### LPA—Project Engineer: Structural Engineering

LPA is seeking a passionate Project Engineer to join our integrated team of architects, engineers, interior designers, landscape architects and master planners in our San Diego Studio. Experience: Bachelor's Degree in Civil, Structural or Architectural Engineering required, Master's Degree encouraged; 5-12 years of experience in all phases of building design; Professional Engineer (PE) license required, Structural Engineering (SE) license encouraged

Responsibilities: The Project Engineer will work in unison with Project Architects, Project Designers and Project Managers to lead the project design process; Prepare documentation for schematic design, design development and construction documents; Quality control research for product and construction methods related to projects; Lead the construction administration process; Mentorship form Managing Directors and Design Directors

LPA is an integrated design firm with offices in California and Texas. We specialize in creating innovative, sustainable environments that work better, do more with less and improve people's lives. Visit: <a href="https://bischer.co/lpainc/cad4a34c-5993-4dac-b6f5-f172c9b46966">https://bischer.co/lpainc/cad4a34c-5993-4dac-b6f5-f172c9b46966</a>

### Forell/Elsesser Engineers —Entry Level And Senior Project Managers



Are you looking to share your talents with a collaborative, fun group of structural engineers working in a dynamic downtown San Francisco office on some of the most challenging and exciting structural and seismic projects in California and around the world? Do you want to be part of an exciting and thoughtful team in a work environment that actively encourages

and supports individual professional growth through ongoing education, training, and mentoring? If so, FORELL/ ELSESSER ENGINEERS, INC. wants to hear from you!

We are looking for both entry level and senior project managers to join our team. Find out more about us and this opportunity at www.forell.com. Interested candidates should forward their resumes and cover letter to <a href="mailto:recruiting@forell.com">recruiting@forell.com</a>

### Holmes Structures —Business Development Manager



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. We are seeking a Business Development Manager with our Los Angeles office. Job Requirements: Develop new project opportunities with new and existing clients; Attend

meetings, conference calls with clients; Follow market trends and build company knowledge of project experience and client connections; Identify new opportunities for securing new projects and / or client relationships; Maintain and build relationships with peers at client companies; Work closely with Principals, colleagues in Holmes and market industry leaders; Identify opportunities related to client requirements; defining market, competitor's share, and competitor's strengths and weaknesses; Improve marketability and profitability by researching, identifying, and capitalizing on market opportunities; Provide information by collecting, analyzing, and summarizing data and trends.

Send your resume to <a href="mailto:hr@holmesstructures.com">hr@holmesstructures.com</a>

# **Classified Ads**



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### **BOARD OF** DIRECTORS

July 1, 2017 - June 30, 2018

TheSEAOSCBoardofDirectorsworkson 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</sup> blyonsærisha.com

President-Elect Mehran Pourzanjani, S.E. <sup>1,2</sup>

mehran@saifulbouquet.com 626-304-2616

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

Immediate Past President Jeff Ellis, S.E. <sup>12</sup> jellis@strongtie.com 714-738-2029

(I Delegate to SEAOC) (2 Member of SEAOSC Exec. Crite.)

Directors Massoud Abolhoda, S.E.

mabolhoda@cosanta-barbara.ca.us 805-568-3120 Matt Barnard, S.E. mbarnard@degenkolb.com

213-596-5000 Sandra Biddulph, S.E sbiddulphädci-engineers.com

949-892-4950

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

Patti Harburg-Petrich, S.E. Patti.Harburg-Petrichg-Buro-Happokt.com

310-920-0056

Donny Harris, S.E.

donny.harris@kpff.com 310-665-1536

Truong Huynh, P.E.

Truong.Huynh@longbeach.gov

562-570-6921 Jackie Vinkler, S.E.

vinkler@johnmartin.com

213-483-6490

SEAOSC Executive Director Dianne Ochoa seaosc@seacscorg



### Structural Engineers Association OF SOUTHERN CALIFORNIA

Getinvolved!MembersareinvitedtojoinaSEAOSCcommittee.Pleasecontactthechairpersonforinformation 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
Subcmte: Golf Tourn.	Kevin O'Connell	213-271-1934	kdoconnell@sgh.com
Subcmte: Women in SE	Michelle Kam-Biron	805-498-4864	mkambiron@awc.org
Younger Members	Noya Wang	213-271-1939	nanwang@sgh.com
	Maria Mohammed	310-323-9924	mmohammed@structuralfocus.com
Image & Public Relations	Maria Mohammed	310-323-9924	mmohammed@structuralfocus.com
Education	MatthewMichnewich	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	ctkumabe@gmail.com
Seismology	Josh Gebelein	213-596-4540	jgebelein@bjsce.com
Subcmte: Steel Bldgs	Ashwani Dhalwala	310-828-1422	ceginc@gmail.com
Existing Buildings	Daniel Zepeda	213-596-5000	dzepeda@degenkolb.com
Disaster Emergency Svcs.	Doug Litchfield	909-392-5353	dlitchfield@mwdh2o.com
Quality Assurance	James McDonald	213-271-1912	jamcdonald@sgh.com
Sustainable Design	Vivian Peńa	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.