



Structural Engineers Association of Southern California



HAPPY HOLIDAYS 2020

PRESIDENT’S MESSAGE | By Matt Barnard, S.E.

Happy Holidays and Happy New Year from SEAOSC! We hope that you and yours are safe and well. Enjoy the season and celebrate with friends and family in a 2020 way.

2020 has been a year like no other. While it has been a year of challenges, I am pleased to report that your Structural Engineering community here in Southern California is doing some amazing things together. Your fellow Members in this Association are making a difference from the technical advancements to our public outreach to improvements to our Association itself. I could easily spend this entire space celebrating all that has happened so far such as the work of our Diversity, Equity, and Inclusion Committee, WiSE, our Student Chapters, the SEAOC Convention presentations, our Fact Sheets, the collaboration with ICC, etc. At your leisure, I encourage you to thumb through this newsletter, visit our LinkedIn page, and visit our past newsletters to catch up on these accomplishments from 2020.

We cannot wait for 2021 to come for so many reasons. The great news is that there are so many opportunities for us all to get involved, to advance our industry, and advance our Community in the upcoming year. We have our SAP training coming together in late January, the Student Night and Career Fair is right around the corner in early February, the Leadership Symposium in late February is almost here, and our Education Committee has mapped out the remainder of our expected professional development program. Given the Pandemic, we will continue to provide our events virtually. Now, no matter where you are, you can join in and make a difference.

Special thanks to everyone serving on our Committees and our Board of Directors for your dedication and hours of investment in this Association and our Community. We look forward to continuing our great work together.

Thank you also to our sponsors whose generous support of the Association is so critical. Special thanks to Optimum Seismic for being our first Annual Sustaining Sponsor and for the support of all of us.

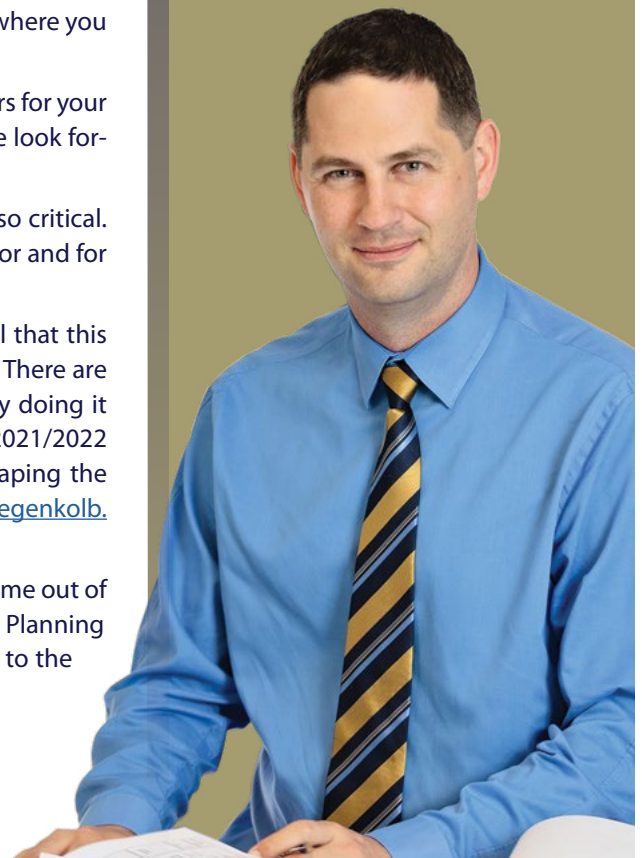
We need continued support from our Members and our Sponsors to realize all that this Community can do. Get involved and maximize the value of your membership. There are so many ways to do something that you enjoy with people that you will enjoy doing it with. Consider joining the Board; we are currently seeking nominations for the 2021/2022 Board. If you are interested in being part of talented passionate Members shaping the future of the Association, this is a special team to join. Email me at mbarnard@degenkolb.com and I will gladly share more detail about what is involved.

If you have suggestions about how to shape our Association’s activities as we come out of the Pandemic, we want to work with you to convert those suggestions to reality. Planning for the 2021/2022 Program Year is already started. Reach out to us via an email to the SEAOSC Office at seaosc@seaosc.org to share your thoughts and interest.

We are proud of how this Association and our community adapted to 2020 and we are excited about what 2021 will bring to all of us.

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MESSAGE FROM OUR NEWSLETTER SPONSOR

Dear Colleague:

I wish you and your family a safe and healthy holiday. May next year be bright and prosperous.

I sponsored this holiday card mailing as an old fashion comfort in these hectic electronic days. If you would appreciate more SEAOSC USPS mailers in the future, drop me a note or call with your thoughts.

Sincerely, Tom Harris, S.E. | *Bureau Veritas*



DIVERSITY, EQUITY, AND INCLUSION UPDATE | by Lorena Arce

SEAOSC's new Diversity, Equity and Inclusion (DEI) Committee came together this summer and already, we have had a full year! Collaboration is a significant theme. We are partnered with ACE Mentor and presented a unit on Structural Engineering in a virtual session to high school students this fall. Our chair, **Lorena Arce**, served as a guest speaker for students in LA Trade Tech's Careers By Design program, an innovative initiative that brings green career opportunities to our community, and currently seeking more speakers. We are helping the AIA Practice Committee plan the upcoming Paul Revere Williams Day, a joint event between a diverse range of organizations in Los Angeles.

Coming soon: a short film highlight the perspective of engineers as they enter the workforce!

We are incredibly excited about the panel event we are hosting as part of the WISE Empowerment By Design Symposium on February 24. Our session "Embracing Diversity, Building Leaders," will be moderated by **Dr. Yvette Pearson**, Founder of The PEER Group and Associate Dean in the Brown School of Engineering at Rice University. Our esteemed panel includes **Yiselle Santos Rivera**, HKS; **Priscilla Chavez**, PCL Construction; **Robert Lyons**, Brandow & Johnston; and **Dr. Consuella Lewis**, Transformations, Organizational Consulting. Hope to see you there!

If you would like to learn more about the committee, including ways you can become involved, please check out [SEAOSC's October 2020 newsletter](#).

MESSAGE FROM THE SEAOSC FOUNDATION | By Kevin O'Connell

Chair, SEAOSC Foundation

Happy Holidays from the SEAOSC Foundation. As we close in on the end of a historic 2020, the SEAOSC Foundation is looking forward to everything that 2021 will bring, including the continued opportunity to support engineering students in their quest to join our noble profession. The 2021 SEAOSC Foundation Scholarships will be awarded during the virtual 2021 SEAOSC Student Scholarships Awards Night and Career Fair on 3 February 2021. I encourage you and your firms to donate to the SEAOSC Foundation to support these deserving students. The SEAOSC Foundation wishes you and your families a healthy and joyous holiday season.



COMMITTEE REPORTS

YOUNG MEMBERS

By **Jessica Chen**
& **Sikandar Porter-Gill**

The YM Committee had a successful Fall Kickoff Meeting. While COVID has hampered our in-person events and field trips we were planning, we are embracing the WFH-mantra. We have moved forward with organizing our successful Student Scholarship Night and engaging with students throughout universities in Southern California.

COMMUNICATIONS

By **Maria Mohammed**

The Communications Committee successfully completed the fact sheets for New Buildings and Existing Buildings this year, the fact sheets were instrumental during the Safer Cities Policy Breakfast event in October and can be found on the Safer Cities page of the association website.

As part of the Committee's goal of modernizing SEAOSC's communications platforms, the committee is planning to relaunch the SEAOSC website early next year, the new website is designed with more target-oriented content and will highlight committees and members in various parts of the website.

MEMBERSHIP

By **Christian Cody**

The Membership Committee has been working to plan fun and tasteful events every year since the beginning of SEAOSC. This year we are tasked with improving Member Experience and making sure that we provide innovative ideas and ways to have fun! We would like to gather and receive your feedback when it comes to future scheduled events and events that have occurred in the past. Any suggestions and recommendations for future/past events will be gladly received in our committee meetings. We ask that you please join us for our membership committee meetings every 2nd Tuesday of the month. To participate in these meetings and be added to the invite, please email membership@seaosc.org.

CALENDAR OF EVENTS

January 13, 2021 – SEAOSC Webinar: Simpson Strong-Tie showcasing case studies with innovative use of FRP and FRCM, presenting alongside a SEOR to detail the challenges and solutions for their project.

January 21, 2021 – NCSEA Webinar: Seismic Design Manual

January 23, 2021 – SAP Training (Virtual), 9:00am – 5:00pm

January 26, 2021 – SEAOSC hosted Safer Cities Policy 'Breakfast' with representatives from Southern California's legislative offices.

January 27, 2021 – SEAOSC Webinar: A panel discussion on Beirut blast discussing experiences of engineers who visited the city and their reconnaissance team findings.

January 28, 2021 – NCSEA Webinar: Seismic Design Manual

February 3, 2021 – SEAOSC Career Fair and Student Scholarship Night

February 4, 2021 – NCSEA Webinar: Seismic Design Manual

February 11, 2021 – NCSEA Webinar: Seismic Design Manual

February 16, 2021 – SEAOSC Webinar: Presentation by OSHPD on the 50th Anniversary of the San Fernando Earthquake detailing the evolution of the design/construction practices and changes in regulations after the earthquake

February 18, 2021 – NCSEA Webinar: Seismic Design Manual

February 24 & 25, 2021 – Empowerment by Design Symposium

February 25, 2021 – NCSEA Webinar: Seismic Design Manual

In addition to a full calendar in January and February, we are looking forward to many other exciting events in 2021.

March

- SEAOSC Webinar: "Let's Get Dirty": Engaging a Geotech Engineer to fill the gaps of translation between their soils report data and its application and implications to structural engineering.

April

- SEAOSC Webinar – "Going Back to School": Discussion about what new is being taught in universities and what could be taught to make students more ready for the industry.
- Membership Appreciation Event

May

- SEAOSC Webinar – Joint event with ACI
- Safer Cities Joint Event with ICC & CalBO

June

- SEAOSC Webinar - "Celebrate a Fellow": Discuss experiences of SEAOSC fellow(s), the changes that have happened over the last few decades and how the industry has changed over their career.
- SEAOSC Awards Program: Excellence in Structural Engineering, Safer Cities Partners, and Member Recognition

SEAOSC'S WOMEN IN STRUCTURAL ENGINEERING (WiSE)

By Michelle Kam-Biron

One of the newer SEAOSC Committees, WiSE has over 40 people on our roster albeit as with all committees, there is a core group of people that drive the committee. In August, WiSE enlisted Ann Banning Wright, LEED, AP, CPSM – Bright Operations, LLC. to facilitate strategic planning for the future of the committee. The process brought various stakeholders together to officially strategize on the direction of the committee and come up with plans for implementation to benefit the committee and SEAOSC.

The Annual and now Semi-Annual WiSE Symposium is and will remain a high priority for WiSE but the strategic planning helped identify two main areas for WiSE to focus on which are Mentorship and Business Management Training. **MENTORSHIP** is led by Margaux Burkholder with participants: Xiaomi Mitsuhashi, Araceli Abanilla, Diane Duvand, Patti Harburg-Petrich and Minye Pak. **BUSINESS MANAGEMENT TRAINING** is led by Diana Nishi with participants: Taylor Funk, Cindy Qian, Vickey Rogers, Aileen Santos-Redman, Kim Carvalho and Sabrina Ketel. WiSE is also working with the SEAOSC Equity and Inclusion group and Vickey Rogers is our liaison to that group. All of these efforts will help not only the committee but all members of SEAOSC who engage in the resources being developed by WiSE. *These topics are not ones that are typically provided to our profession, yet they are key to elevating oneself as well as the structural engineering profession.*

SAVE the DATES: February 24th and 25th WiSE is currently curating the semi-annual **EMPOWERMENT BY DESIGN SYMPOSIUM**. WiSE is building off the committee's strategic planning and concentrate on Mentorship and Business Management Training. Additionally, the SEAOSC Equity and Inclusion group will feature a panel discussion. An outline of the topics is below:

FEBRUARY 24TH 8:00 AM

- Mentorship Panel Discussion
- Speed Mentoring
- Embracing Diversity, Building Leaders Panel Discussion

FEBRUARY 25TH 8:00 AM

- How to Build Your Career and Grow a Firm: Lessons Learned from a Lifetime in the Business -Mark D. Aden, PE, SE - President/CEO, DCI Engineers
- Unlock Your Inner CEO-Ann-Banning Wright, LEED-AP, CPSM, Bright Operations, LLC.
- Strategies for Resilient Management - Panel Discussion
- Networking scramble

In addition to assistance by the two break out groups mentioned above, other key contributors to the symposium include: Amber Zamora, Rachel Hadchi and Molly Pobiell.

For more information about the symposium, please visit the Calendar/Events page of the association website

For more information about the committee, please contact Chairperson Michelle Kam-Biron, SE (805) 498-4864 arceconsulting@gmail.com



THANK YOU TO SEAOSC'S PLATINUM SUSTAINING SPONSOR



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SEAOSC'S SAFER CITIES POLICY BREAKFAST AND LEGISLATIVE CONNECTIONS | By Kelsey Parolini

On October 20th, as part of the Safer Cities initiative, SEAOSC hosted our annual policy breakfast with representatives from legislative offices throughout our Southern California footprint. The event gives us the opportunity to increase the visibility of SEAOSC on a broader stage, create connections, and position our engineering community as a resource for local and state leaders.

Reflecting on the response of leaders to the current pandemic, the interactive breakfast allowed us to collaborate on strategies to empower local leaders and community members to address gaps in critical housing and economic infrastructure in the face of the next disaster. We offered attendees tools, tactics, and insights to support improved building safety, function and performance, and how to take this message to their constituents. This was a perfect opportunity to roll out the New Building and Existing Building Fact Sheets which our Communications Committee has worked to develop – a response to requests made by participants during the 2019 Policy Breakfast.

The conversations during the event were insightful with three distinct areas of focus: Technology, Housing, and the Changing Use of Buildings. You are welcome to review the recap notes on the Safer Cities portion of our website (<https://seaosc.org/Safer-Cities>). Following the event, member volunteers have continued to build relationships with legislative participants. The reach outs have been fruitful and in four cases we are working on partnering with the legislative office to host a targeted roundtable discussion on Building Safety in their community.

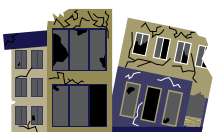
This successful Policy Breakfast would not have been possible without support from the following volunteers and sponsors:

- Breakfast Hosts included **David Cocke, Angel Leon, Maria Mohammed, Susan Dowty, Garrett Hagen, Patti Harburg-Petrich, Ken O'Dell, Matt Barnard, Kelsey Parolini** and SEAOSC's Strategic Outreach Coordinator **John Bwarie**.
- Thank you to our event sponsors **Silvia's Brainery, Degenkolb Engineers, and MHP, Inc.**

In preparation for the anticipated community targeted discussions, a group of member volunteers have preemptively been working on sculpting content. Working as our roadshow coordinators, **Marios Panagiotou, Nathan Jo, Bahram Zarin-afzar, Angel Leon, Garrett Hagen, Jeff Ellis, Daniel Zepeda, Patti Harburg-Petrich, Ken O'Dell, and Kelsey Parolini** have lent their time to help craft messaging and content. This has been a true collaboration across many of our SEAOSC committees. Now that the policy breakfast has helped give direction to the content, we are excited to see these targeted round table meetings unfold.

Finally, in response to participant's requests for further conversation and collaboration centered around building and seismic safety, SEAOSC will be hosting a second policy breakfast on January 26th. We hope the conversation will help to strengthen our relationship with Southern California lawmakers while also highlighting the 50th Anniversary of the Sylmar – San Fernando Earthquake.

EXISTING BUILDINGS



COLLAPSE PREVENTION



LIFE SAFETY (CODE MINIMUM)



FUNCTIONAL RECOVERY



OPERATIONAL

BEST WISHES FROM THE BOARD

Patti Harburg-Petrich |

One of the bright spots in this crazy year is the time I spent with my friends and colleagues at SEAOSC. Thank you for your creativity, commitment to our community, and friendship. I'm incredibly excited about the future of our organization! Wishing SEAOSC all the best for 2021!!



Jesse Karns | 2020: A humbling year, yet an opportunity to grow.



Henry Burton | Despite the many challenges so far this year, SEAOC has initiated the important discussion regarding diversity (or the lack thereof) in structural engineering. My hope is that this will be an ongoing discussion as we seek to harness the untapped potential of those groups that are underrepresented in our profession.



SEAOC MESSAGE

By Wayne Chang

From the state level, the SEAOC has established a healthy financial budget for the upcoming fiscal years based on lessons we learned so from this pandemic. The SEAOC executive team and the board members will constantly review the situation and make necessary budget adjustments. One of the bigger tasks from the state is the initiatives of Diversity Equality and Inclusion (DEI) ad hoc committee. The executive team and the board members of this ad hoc committee are working hard to establish frameworks and ideas to be used by the local MO's. Additional information related to the initiatives from DEI will be available shortly so stay tuned!!!

Susan Dowty | Thank you SEAOSC members for your support and enthusiasm during this crazy year. May we all stay strong, continue to collaborate, and seek out those silver linings during the next year. Sending warm wishes for a safe and healthy holiday season.



Ken O'Dell | As we move into the New Year, SEAOSC remains poised to strengthen our engagement with our communities, but most importantly stay connected with you our members... It will be an exciting year ahead in many ways, but if the pandemic has taught us anything, it is, that we are resilient. Here's to seeing everyone "soon".



Victor Cuevas | Seems to me that during these trying times, the pandemic has separated us from each other, but the caring nature of our engineering community has kept us close to each other.



Brett Beekman | SEAOSC is aware of how hard all our members are working to get through the pandemic and the resulting economic downturn. Conversely, as we move through the holidays and into 2021, I think it is important to consider where we would all be without SEAOSC representing our interests at the local, state and National level. Working together I think SEAOSC and its members can create a path forward through these challenging times.



Kelsey Parolini | The energy so many of you have shown towards this year's collection of association initiatives has been inspiring. SEAOSC's members have a passion for the industry and the Structural Engineering community, and I am honored to be able to work alongside all of you.



Bernard Cruz | 2020, what a year! As we come to the close of a tumultuous year, we all endured every challenge the year threw at us – we assessed solutions



and moved forward, we're engineers – it's what we do. But let's not forget how vital our profession is, we give peace of mind to everyone in our communities, our profession touches every aspect of life. I'm proud to be a part of this organization, despite these challenges, we keep working despite 99.9% of the people we safeguard never knowing who we are or what we did to ensure their lives can go on even if Mother Nature decides to throw us an "Earth-Shattering" curve ball... Keep your chins up, keep smiling and soon enough, we'll get to tell the year "hey, 2020, you're on mute... for good.

Kim Carvalho | 2020 has definitely taught us how to step outside of the box in terms of dealing with projects, staff and clients remotely. We hope to see everyone virtually on February 24-25th for the Empowerment by Design Symposium curated by the Women in Structural Engineering committee where one of the sessions will focus on this very topic.



Wishing everyone a safe and healthy holiday season!

A NOTE FROM CO-PILOTS, SEAOSC ASSOCIATION MANAGER

What a year to remember! This year has been anything but normal. As business life suddenly became digital, we all had to find new ways to keep in touch and continue doing business. It has been a challenging process but also rewarding in that we have been able to discover new ways to connect and reinforce SEAOSC's commitment to its members and community. Although our ability to meet in person has been temporarily stifled, we plan to capitalize on the new digital world and continue to find ways to connect into the future.

Over the last 4+ years, Co-Pilots has had the pleasure in servicing SEAOSC and its members. Recently, we welcomed a new team member to support SEAOSC, Stephanie Gonzalez.



As the Administrator for SEAOSC, we will continue to strive to provide the support that allows SEAOSC to concentrate on implementing their vision of *"serving its members in the noble profession of structural engineering by fostering and promoting the contributions of structural engineers."* Co-Pilots exists for this purpose – to be **"Your Business Co-Pilot."**

Dianne Ochoa | *Co-Pilots Business Services*

A Note from Stephanie:



I am so excited to be a part of the SEAOSC team! Even though I have only been a part of the Co-Pilots and SEAOSC team for a few months, I feel a great sense of community and professionalism in working with SEAOSC. In my background in broadcast journalism and sports television, I learned two of the greatest skills ever - multitasking and organization. After years in the TV business, I ventured into the event planning business and very similar to professional athletes, you learn to deal with a lot of different personalities and learn to be extremely patient and organized. As a professional, I believe positive actions combined with positive thinking results in success. I am looking forward to a prosperous and healthy 2021.



ANNIVERSARY SYLMAR-SAN FERNANDO EARTHQUAKE

DO YOU HAVE A STORY TO SHARE?

February of 2021 will mark the 50th anniversary of the Sylmar-San Fernando Earthquake. As SEAOSC looks for opportunities to reflect on this momentous event and celebrate the lessons learned, we are interested in your stories. How did this historic Southern California tremor impact your career in the Structural Engineering industry? Was it a defining moment on your professional path, or did it open your eyes to the possibility of engineering as a career? If you have a story you would be interested in sharing, please contact our SEAOSC office at seaosc@seaosc.org.

COMMITTEE REPORTS

EDUCATION | By Siddharth Awasthi

This year has been about staying safe at home and sharing knowledge through webinars. Over the remainder of the year, we have plans to touch upon different aspects of structural engineering each month. As we approach normalcy towards the beginning of the next SEAOSC year, we hope to bring in live demonstrations, comparisons of the new stadiums in the NFL season and engage with other SEAOSC MOs to connect with the rest of California.

CONCRETE | By Nils Fox

Our mission is to improve concrete construction projects, whether new or existing. We accomplish this by finding and promoting the best information available, whether it is better project specifications, materials, best practices, quality control, code updates, etc.

The concrete committee was formed, staffed, and began regular meetings in early 2020. Committee members come from all aspects of the industry – engineers, contractors, material suppliers, government agencies, etc.

The topics in 2020 have included a broad spectrum of advanced, state of the art industry information including concrete mix design, best practices for repair and protection, state of the art testing by maturity meters, teaming up with other industry associations like ACI and NRMCA, promoting safer buildings through the City of LA non-ductile concrete retrofit program, best practices for post tension concrete structures. After the presentation, there is a very spirited Q & A session and sometimes we just have an open discussion meeting.

The committee meets last Thursday of every month at 1:30pm, feel free to join us! For more information email concrete@seaosc.org

BUILDING CODES AND STANDARDS | By Michael Ciortea and Colin Kumabe

SEAOSC Building Codes and Standards Committee held monthly meetings (with some interruptions) during this past year, with a focus on updating the members about the various standards evolution. For example, we brought up the timeline for comments to the AISC 360 and 341, 2022 edition (draft ballot closed comments 9/14/2020), pointed to ASCE 7-22 development cycle, (dates for meetings open for public comments), new errata 3 to ASCE 7, issued January 16, 2020; involvement opportunity for the new AWWA Committee 306 for corrugated water tanks, and other news. Also, as the State Intervening Code Cycle amendments to the 2019 CBC were being proposed in the Building Standards Commission meetings (before April deadline), we brought up some of them in our meetings, asking for comments to pass on to the authorities involved with those changes, and we received some comments. For the ICC development for Group B (structural) this was an 'in-between' year, as the deadline for proposals is January 2022, and as such there was no activity in that respect, but we expect to have a busier 2021.

Below is an outline of the ICC Code development process for this cycle:

Notes from the Building Codes & Standards Committee – International Building Code Development Process

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 code development process of the International Building Code (IBC) used by the International Code Council (ICC). This article will provide an overview of the process the International Code Council (ICC) uses to develop the various codes that they publish. California adopts by reference four ICC codes into the State Building Standards Code, including the International Building, Residential, Existing Building and Fire Codes.

ICC uses a cloud-based web application called cdpACCESS. This process is detailed in a document titled CP #28-05 Code Development, which is available on their website. Go to www.iccsafe.org and click on the cdpACCESS button on the top of the page. You will need to create a user name and password. You will also need to create a PIN to be used in voting if you are an ICC member.

The codes are published every three years. The code change process takes about one year. Therefore, there are three cycles between the code editions, ICC uses only two. Each code goes through one code change process between editions. The codes are split up into two Groups, Group A and Group B. Group A codes include the International Building Code, except for the structural portion, and the International Fire Code. Group B codes include the structural portion of the International Building Code, the International Existing Building Code, and the International Residential Code. The Group A codes were up with a Jan 8, 2018 code change submittal deadline.

CONGRATULATIONS

to all of the 2020 SEAOSC Excellence in Structural Engineering Award Winners. You can learn more about these projects on the SEAOSC website.

Do you have a project to celebrate? Applications for the next awards cycle will be available in early 2021.



EXISTING BUILDINGS COMMITTEE | By Garrett Hagen

The EBC has been working with local cities in seismic retrofit ordinance implementation and has identified phasing of seismic retrofits and pounding between adjacent buildings as two items requiring discussion and guidance among the engineering community. During the second half of the Program Year, the EBC intends to evaluate the results of a recent survey sent out to the engineering community on pounding and develop opinion papers on best protocols for addressing ordinance-targeting buildings with inadequate seismic separation as well as best practices for incremental seismic retrofit construction.

WOOD | By Zizhao He

The wood committee is currently focused on a white paper on the topic of “Cantilevered Wood Diaphragm”. We have been working together with researchers, professors, manufacturers, practical engineers and building officials in the SoCal area to develop a recommended design acceptance criteria as well as some design considerations. We plan to have the white paper completed early 2021 and move on to a Mass Timber related topic in the coming second half of program year. We wish everyone happy holidays and welcome to join our committee!

SEISMOLOGY AND HAZARD COMMITTEE | By Cairo Briceno

Over the last year, seismology committee was engaged in the development articles in the latest bluebook. Since January, we have been actively involved in the code development of the ASCE 7-22. We review the proposals on CLT and wood cantilever diaphragm. In a parallel track, we look deep into the vertical acceleration effects on a variety of buildings. We expand our task to tackle other non-seismic traditional hazard. We investigated the complex mechanic of Tsunamis induced by different sources. We also, embraced the study of urban wildfires and its consequences to building structures. In the coming year, we will continue our research the seismic and non-seismic hazard. We will focus on structure on how to get resilience in our Structures. We wish our members a happy holiday. We meet the last Wednesday of every month. We always welcome new members. If interested please contact cairo.briceno@parsons.com or gabriel.acero@aecom.com for additional information.

THANK YOU TO THOSE WHO PARTICIPATED IN THE 2020 GOLF TOURNAMENT





Structural Engineers Association
of Southern California

Webinar

Using FRP and FRCM for Structural Retrofit Applications Told Through Case Studies and Innovative Testing

Wednesday, January 13, 2021

12:00pm-1:30pm

Simpson Strong-Tie looks forward to presenting an educational-based webinar on the use of composite strengthening systems, namely Fiber Reinforced Polymers (FRP) and Fabric Reinforced Cementitious Matrix (FRCM), for the structural retrofit of existing building structures. This webinar includes:

- 1) A case study that covers the innovative use of FRP on an existing structure to meet project-specific requirements. We are excited to team up with Marc Stryer, S.E., principal at Tipping Structural Engineers, to present on the use of FRP to seismically strengthen a five story concrete building. An experimentally-backed solution showed that FRP can be used to increase the shear strength and ductility of a rectangular concrete column where retrofit access was limited to three sides only.
- 2) A case study that highlights using FRP creatively alongside traditional retrofit approaches to provide the best overall solution for strengthening an existing building's lateral system. This project resulted in the development of new Shear Transfer Bracket to transfer shear forces from existing concrete to new concrete elements.
- 3) The use of FRP anchors to improve shear wall and joint (slab to wall) connection performance.
- 4) The importance of including field testing requirements in the project specifications to address FRP anchor quality control.
- 5) A case study that highlights the application of FRCM used to strengthen existing masonry walls for improved earthquake load resistance.
- 6) An experimentally-backed approach for strengthening damaged wood piles using a pile splice repair technique that uses FRP.

Individuals:
SEAOSC/SEAOC/NCSEA Members - \$10,
Non-Members - \$75

Registration for this \$75.00 event has been partially underwritten by the generous gift from our sponsor.



SEAOSC | 562-908-6131 | seaosc@seaosc.org | <http://www.seaosc.org>



SAVE-THE-DATE

SEAOSC VIRTUAL LEADERSHIP SYMPOSIUM

A SEAOSC Workshop curated by the Women in Structural Engineering Committee

February 24 & 25, 2021
ALL ARE WELCOME!

EMPOWERMENT by DESIGN



TOPICS:

February 24th: 8:00am-12:00pm

- The Power of Successful Mentorship – Panel Discussion
- Speed Mentoring Session
- Embracing Diversity, Building Leaders Panel Discussion

February 25th: 8:00am-1:00pm

- Keynote Presentation: How to Build your Career and Grow a Firm – Lessons Learned from a Lifetime in the Business – Mark D. Aden, PE, SE – President/CEO, DCI Engineers
- Unlock Your Inner CEO – Ann-Banning Wright, LEED-AP, CPSM, Bright Operations, LLC
- Strategies for Resilient Management - Panel Discussion
- Networking Scramble

More Details Coming Soon!

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



STUDENT CHAPTER UPDATES

SOCIETY OF STRUCTURAL ENGINEERS CALIFORNIA STATE UNIVERSITY, FULLERTON

Hello, this is CSUF's Society of Structural Engineers (SSE)! We are a growing organization and our goal is to bring more career insights and opportunities to our member students. So far we've accomplished that by having discussions with the guest speakers about career path & scholarship, and receiving valuable guidance from them. We hope to continue doing this for the Spring semester as well as introducing more technical events such as resume workshops, plan reading workshops, and virtual site visits. In addition, SSE hopes to connect to other student Chapters so that we can broaden our views and share our knowledge.



EERI-SEAOSC, UCLA

EERI-SEAOSC at UCLA had the pleasure of Matt Barnard coming to speak at the CEE 200 seminar to start the quarter—we learned from his insights into current practice and how to navigate the waters during uncertain times, and the seminar had one of the highest attendances up to date. We are also grateful for the SEAOSC YMC making our Career Bootcamp a success. With more than 15 young professionals attending as mentors, our student members received personalized feedback on their resumes and interview skills. We ended our professional events for the quarter on a high note, with a virtual Networking Night full of long, meaningful conversations with reps from five top-tier firms. We are looking forward to another great (virtual) quarter, and the chapter will kick off with our 2nd Annual Earthquake Engineering Career Fair in the second week of January.



CAL POLY, SLO

Cal Poly SEAOC, has taken their events virtual! Last quarter we continued our lunch speaker series, with great guests, and interesting presentations. Some highlights were Matt Barnard's presentation on "What he Wish he Knew Before Becoming a Structural Engineer", and Daniel Weins presentation on his humanitarian organization Journeyman International. We also had our very first Industry Roundtable where a panel of industry professionals discussed student questions about how Covid-19 has effected the structural engineering industry. Looking forward to our winter quarter, our chapter will continue to host the lunch speaker series, is planning to have another round table, host a virtual version of or career fair Structural Forum, and run a virtual trip to northern California, where various firms will give office tours, and present on their companies to club members.

