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PRESIDENT’S MESSAGE
by Janiele Maffei

As we begin the seventh week of working under stay-at-home orders due to the COVID-19 virus, the SEAONC board of directors and committees continue to meet through web or phone-based applications and carry on the strategic goals of the organization. While our plans to hold in-person meetings are subject to governmental directives, here are some of the recent activities and decisions made on behalf of SEAONC:

- The May meeting will not feature our typical Excellence in Engineering and SEAONC/CSI student scholarship awards. Instead, we will provide a webinar with SEAONC updates and a panel presentation on Low Carbon Concrete. We will reschedule our awards event when we have a better handle on the future of in-person events.
- Our June annual business meeting will be offered as a web-based event. We will include the President’s State of SEAONC report and complete the transition of the existing board of directors to the next leadership team. Announcement of SEAONC honors (fellows and special awards) will be rescheduled for a future meeting.
- The SE3 2020 survey is live. Please look for the link to the survey in your email.
- No decisions have been made at this time regarding the SEAOC annual convention scheduled for September.
- The Deconstructed Podcast, sponsored by SEAONC and supported by the Public Outreach Committee, has posted a 4th episode that can be listened to or downloaded on their website at https://www.thedeconstructedpodcast.com/

Exciting webinars are being planned by SEAONC committees including:

- Lessons Learned from the 2008 Recession presented by SE3

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HOW TO GET INVOLVED

Become a member: Select the appropriate membership level for you and complete the application
Monthly meetings: Meet and mingle with fellow engineers. Register through the link in this month’s newsletter
Join a committee: Click here to see a description of each committee, contact the committee chair to ask how you can help, and how to join the committee email list.
Make a suggestion: Have an idea and want to help with something that SEAONC is not already pursuing? Email the SEAONC Office. Ad-hoc committees can address specific needs.
Become a sponsor: Support SEAONC and showcase your company’s services at the SEAONC events through sponsorship!

Posting for Membership In order to view new applicants posting for membership, please visit our website www.seaonc.org.
• 2019 CEBC: Code changes and updates
• ACI 318-19: Code changes and updates.

Stay tuned and watch for additional details about these events. While we are disappointed that the May and June meetings will be severely disrupted, SEAONC board and committee members continue to work on behalf of the membership to accomplish our mission “to advance the practice of structural engineering, to build community among our members, and to educate the public regarding the structural engineering profession.” We hope to “see you” at a SEAONC webinar in the near future and in-person very soon.

UPCOMING EVENTS

May Monthly Meeting:
SEAONC Updates and a Presentation on Low Carbon Concrete

Date: Wednesday, May 13, 2020
SEAONC Updates by Janiele Maffei: 12:00 pm
Program: 12:15 pm - 1:30 pm PST
Location: Webinar
Click here to register

We’re excited to announce and invite you to our first virtual Monthly SEAONC Meeting.

In November 2019, Marin County adopted the world’s first building code that limits carbon emissions from concrete. The Low Carbon Concrete Code, was developed as part of the Bay Area Built Environment Embodied Emissions Project. The project was funded by a grant from the Bay Area Air Quality Management District and in partnership with stakeholders from across the region.

This panel will feature the project’s main stakeholders, who will explain the history and background of the Code, discuss learnings from the (4) pilot projects currently in design or construction that are complying with the Code requirements, and what structural engineers need to know to be in compliance. Additionally, local concrete suppliers and a general contractor will provide their perspectives on the feasibility of meeting the new Code and what it could mean for the AEC industry locally and beyond. Please come with questions as there will be plenty of time for discussion.

ABOUT THE PANELISTS:

Alice Zanmiller was a Planner with the Marin County Community Development Agency’s Sustainability Team. She received her degree in City and Regional Planning from Cal Poly San Luis Obispo. She worked as a planner developing climate action plans and greenhouse gas inventories prior to joining the County in August of 2016. She was integral in getting Marin County to adopt the Low Carbon Concrete Code.

Frances Yang, SE, LEED AP BD+C, ENV SP. Frances leads Arup’s Americas Sustainable Materials Consulting practice, promoting low carbon and healthier materials for our built environment. She is serves on the AIA Materials Knowledge Working Group, the SEI SE 2050 Sustainability Committee, and as a board member of the Carbon Leadership Forum. She has also vice-chaired the USGBC LEED Materials and Resources TAG and led authorship of ASCE’s Whole Building LCA Guide: Reference Building Structure and Strategies. For the Bay Area Low Carbon Concrete Code project, she conducted the data analysis for setting limits, lead the development of commercial sector resources, and is providing technical assistance to four pilot projects.
UPCOMING EVENTS

Eric Peterson is a Director for Webcor Concrete. He has been with Webcor Concrete for 20 years of his 45-year career. His projects have been within the civil, building and industrial sectors and have included transit stations, water and wastewater treatment facilities, commercial and residential high-rise, hospitals, transportation and infrastructure and manufacturing facilities.

Hernan Perez, CE, MPM is CEMEX’s Technical Services Director for the California/Reno Region. He manages the R & D laboratory, Quality Assurance, Mix Submittals and Mix Design processes, to ensure full compliance of concrete and aggregates products with project specifications. Hernan has worked for CEMEX for twenty-two years in different positions related to concrete and aggregates on projects in the South America region, Germany, and Israel. He has been involved in the design of sustainable mixes for LEED and CALTRANS projects and developed EPDs for ready mix plants in the Bay Area, Sacramento and Southern California.

Alana Guzzetta is the manager of U.S. Concrete’s National Research Lab in San Jose and has worked for U.S. Concrete for 9 years. She has a Masters Degree in Civil Engineering from San Jose State and is a licensed civil engineer in California. The National Research Lab is the research resource for all of the U.S. Concrete business units and works to support the Quality Assurance departments of each market. Additionally, the research team contributes to providing innovative and sustainable solutions to architects and engineers.

Juan Gonzalez (Johnny) is the Sustainability Manager for Central Concrete. He’s worked with Central Concrete for 6 years. He started in the Quality Assurance Lab, understanding the technical side of concrete, worked in customer service for about 6 months before moving out in the field as a Project Manager for the San Francisco territory. While as PM he was tasked to implement an operation to reduce and manage return concrete volume. That’s where Central Concrete began the Same Day Stabilization operation and utilizing Recycled Concrete Aggregates in concrete.
**COVID-19**

With the coronavirus affecting all of our communities, our priority is the health and safety of our members and participants. To that effect, SE3’s in-person programming for the coming months will be postponed or moved online until we are able to safely gather in-person again. We will be monitoring the situation closely and will keep the SE3 community updated. Please see our website for the most up-to-date event information.

**SAVE THE DATE - SE3 Presents: “Lessons Learned from the 2008 Recession”**

Join us on Tuesday, May 26th for a lunchtime webinar featuring several members of our structural engineering community who will share their experiences during the 2008 Recession, and discuss lessons learned that we can use in facing current and upcoming financial difficulties related to the Covid-19 pandemic. Topics covered will include retaining talent in our industry, maintaining employee engagement during uncertain times, and strategies for individuals who have lost employment.

**SE3 BLOG**

If you missed it last month, check out SE3’s blog and read SE3 past chair Hayley Dickson’s thoughts on Equity, Diversity, and Inclusion in the workplace.

**SE3 LONG-TERM MENTORSHIP PROGRAM - STAY TUNED!**

SE3’s mentorship program aims to facilitate further access to this career-boosting practice. The committee is working to facilitate a second year of its long-term mentorship program with a slightly new format. For 2020, the mentorship groups will be broader to include professionals with a range of experience: each group will include one seasoned professional, one or two mid-level engineers, and one or two entry-level engineers. Due to Covid-19, we will be organizing mentorship groups online, and mentor/mentee meetings will begin virtually until we are safely able to meet in person. Look out for a call for mentors and mentees coming in May! For those who participated in the 2019 program, we encourage you to re-register for the 2020-2021 program, you will have the option to stay with your current mentor.

**SE3 2020 PROGRAMMING**

Whether or not you have been a member of our committee in past years, we would be delighted to have your contributions in any of our sub-committees and programs. If you are interested in joining the SEAONC SE3 committee, please email us at se3@seaonc.org. New members are always welcome!

**NCSEA SE3 NATIONAL SURVEY**

The NCSEA SE3 2020 Survey is now live! The survey focuses on career satisfaction, engagement and retention, compensation, and work-life balance within the structural engineering community. It should take 10 to 15 minutes to complete. If you are interested in helping the committee with outreach and analyzing the results, please send an email to se3@ncsea.com.

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**Seismology Committee**

Steel subcommittee is writing design recommendations and a design example for two-way moment frames. If you have any questions or know about any issues on this topic, we would like to hear about it so we can look into the problem and potentially include it in the recommendations. We are also still looking for people excited about steel to join our subcommittee and/or help with this project. If you are interested or have suggestions, please, contact Jakub Valigura (jakub.valigura@kpff.com).
Did you know that the **Applied Technology Council (ATC)** was originally created as an offshoot of SEAOC? Prior to 1973, most improvements to the structural engineer practice and codes changes came from voluntary committee efforts of SEAOC. In recognition of the need to increase the speed of development of better structural engineering standards and practices, ATC was created in 1973 based on a structure that it would pay consultants to conduct work to advance the practice and technology of structural engineering, as opposed to relying on voluntary service. You can learn more about ATC as well as other history of structural engineering in Northern California at the Hensolt SEAONC Legacy Project. The project can be viewed at [legacy.seaonc.org](http://legacy.seaonc.org) and if you wish to contribute to the project, click here.

Of course, the Hensolt SEAONC Legacy committee is always looking for more ideas, energy and participation from the SEAONC membership. This committee provides the unique perspective on the history of structural engineering in Northern California and it is an opportunity to learn and understand how our profession has evolved. Therefore, if you are interested in participating in this ongoing endeavor, please contact the SEAONC office at 415-974-5147 or [office@seaonc.org](mailto:office@seaonc.org).

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**SEAONC PODCAST**

**Deconstruction Podcast:**

**Episode 4: Land Reclamation**

If you live in the SF Bay Area, you’ve probably heard this term at some point, but land reclamation is not just relevant to the Bay Area. We reached out to Cary Ronan, an experienced geotechnical engineer, to help explain what land reclamation is and how it works.

The term land reclamation can refer to many things, but in its simplest form it is referring to soil or some other fill being added to an unusable area until that area is stable and high enough to build on. This method can even be used to bring up the level of the sea bed in shallow areas to create a new land mass. To learn more about how land reclamation is achieved and how it can be used, listen to this episode of the Deconstructed Podcast.

Want to learn more? Stay tuned! This is a really big topic, and we didn’t have time to dig as deep as we wanted to (sorry for the lame soil pun) and we plan to have additional episodes about this topic in the future. In the meantime, here are some links about land reclamation, including a map of the “ghost ships” of San Francisco. Enjoy!

1) [Buried Ghost Ships of San Francisco - National Geographic](http://www.nationalgeographic.com)
2) [Countries with the Most Reclaimed Land](http://www.worldatlas.com)
3) [China’s “Gift of the Sea”](http://www.chinadaily.com)
4) [Encyclopedia Britannica - Land Reclamation](http://www.britannica.com)
PEER & COVID-19

Message from PEER Director Mosalam

“This virus outbreak clearly illustrates the need to prepare better for natural and man-made hazards and to avoid having them turn into disasters. Our emergency system is shown to be vulnerable during this pandemic. Accurate and comprehensive information communicated in a timely manner, combined with appropriate response to events of low probability but high consequence, are without a doubt paramount for a resilient society.”

NEW: PEER-Bridge Research Program and RFP

Request for Proposals: Solicitation PEER-BRIDGE 20-01

The PEER-Bridge Research Program is announcing a Request For Proposals with the objective of developing a new LRFD-based bridge deck design procedure that accounts for modern trucks, dynamic (rolling) loads, shear demands, and concrete fatigue. Please refer to the RFP documents at the PEER-Bridge Program website for further details.


PEER Awarded $4.5 Million for Bridge Research Program

Caltrans awarded a $4.5 million, 36-month contract to PEER for the new PEER-Bridge research program. This program continues to yield numerous advancements that make Caltrans a world leader in bridge engineering. The research program funds several new contracts each year, each with duration of 2 to 3 years.

PEER Research Highlights


The impact of this PEER funded research project is highlighted. The project Principal Investigator (PI) is Erica C. Fischer, PE, Assistant Professor, Oregon State University.

PEER Research Project Highlight: “Fracture of Deficient Steel Details in Pre-Northridge Transportation Infrastructure”

The impact of this PEER funded research project is highlighted. The project Principal Investigator (PI) is Amit Kanvinde, Professor of Civil and Environmental Engineering, UC Davis. The research team includes James Malley, Group Director and Senior Principal, Degenkolb, San Francisco and Robert Pekelnicky, Senior Principal, Degenkolb, San Francisco.

PEER Research Project Highlight: “Identification of Transportation Network Corridors, for Enhancing Network Resilience”

The impact of this PEER funded research project is highlighted. The project Principal Investigator (PI) is Jack W. Baker, Professor of Civil & Environmental Engineering, Stanford University. The research team includes Rodrigo Silva Lopez, PhD Student, Stanford University.

PEER REPORTS

New PEER Report 2020/02: “Data Resources for NGA-Subduction Project”

PEER has published this report. Chapters of the report have multiple co-authors from various institutions. The project Principal Investigator is Yousef Bozorgnia and the editor is Jonathan P. Stewart, both from UC Los Angeles.

New PEER Report 2019/09: “Seismic Behavior of Special Concentric Braced Frames under Short- and Long-Duration Ground Motions”

PEER has published this report, written by Ali Hammad and Mohamed A. Moustafa, University of Nevada, Reno.

New PEER Report 2019/08: “Influence of Vertical Ground Motion on Bridges Isolated with Spherical Sliding Bearings”

PEER has published this report, written by Rushil Mojidra and Keri L. Ryan, University of Nevada, Reno.

STEER NETWORK REPORT

StEER Report for March 18, M5.7 Utah Earthquake

The Structural Extreme Events Reconnaissance (StEER) Network has issued an Event Briefing for the M5.7 Utah Earthquake that occurred on March 18, 2020. Refer to this report and others at the PEER Earthquake Briefings page.
Thank you to our inaugural Firm Sponsors!
We sincerely thank you for your support of SEAONC.

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» Past Projects Include: Testing of Anchor Bolts, Special Moment Frame Qualifications, Resilience Criteria

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» Promote Professional Development of your Employees

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<td>12 months ($3,000 value)</td>
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Drawing Generation for ETABS

CSIXCAD™

Plugin for AutoCAD® and BricsCAD®

Proudly brought to you by the developers of SAP2000® and ETABS®

CSIXCAD is a new tool that streamlines drawing production for steel and reinforced-concrete structures by directly interacting with ETABS®. CSIXCAD maintains a complete BIM model in CAD software and can generate the following drawings and documentation:

- Floor Plans
- Elevations
- Beam and Column Schedules
- Wall Reinforcement Plans
- Wall Reinforcement Elevations
- Slab Reinforcement Plans
- Beam Reinforcement Elevations

CSIXCAD provides a direct link between the ETABS structural model and the CAD drawings. Changes to the ETABS model can be updated in CAD without losing drawing customizations. By eliminating manual data transfer, CSIXCAD increases efficiency, productivity, and cost savings.
KPFF CONSULTING ENGINEERS - SF

_job position:_ Structural Engineers - All Levels

_job description:_ KPFF San Francisco is seeking Structural Engineers of all levels with experience in both new construction and renovation building design. Our ideal candidate is ambitious and entrepreneurial and is interested in developing and maintaining a stable client base, as well as, excellent working relationships with developers, architects and general contractors.

KPFF civil and structural engineers are driven by a commitment to our core values of Excellence, Trust, Relationships, Stability, and Passion. We provide creative, practical solutions for projects of all kinds, scales and industries. Our culture focuses our energy and our passion on our clients, our projects, and our people. Firm wide KPFF has been in business since 1960, growing from a single office in Seattle to become a nationally recognized firm with more than a 1,200 team members and 20 offices across the United States.

We collaborate with our clients utilizing the advantages of VDC with BIM tools as a way of visualizing, coordinating and tracking systems. Our office employs Lean Design and Construction tools and participates in a variety of project delivery methods in order to further integrate design and construction.

At KPFF, you control your destiny – the work you put in equates directly to your success and compensation. Careers at KPFF are driven by individual accomplishments and successful projects. That means your dedication, attitude and talent drives your professional growth. We work in dynamic teams with open communication and strong mentorship from senior-level staff. KPFF encourages innovation and continuous quality improvement in our work unencumbered by bureaucratic behavior. Professional development and on the job training is an everyday event as is your direct interaction with owners, architect and contractors.

Our supportive and fun work environment allows for flexibility for families and encourages work/life balance. We offer generous benefits, a competitive salary and pay you for every hour you work.

KPFF is an Equal Opportunity Employer

_to succeed at KPFF you:_
- Are self-motivated and strive for excellence in all aspects
- Have effective organizational skills and excellent verbal and written communication skills
- Consistently think beyond rote training to thoughtfully and creatively design structural solutions
- Display a desire for growth and welcome advancement opportunities
- Welcome the collaborative and iterative process that comes with designing world-class buildings
- Participate in planning and supporting the Strategic Vision of the office

How to Apply / Contact

to submit an application, please visit our website at: [www.kpff.com/careers](http://www.kpff.com/careers)

Learn more about KPFF Consulting Engineers by visiting our [www.kpff.com](http://www.kpff.com) and our Facebook page: [www.facebook.com/KPFF.SanFrancisco](http://www.facebook.com/KPFF.SanFrancisco).

KPW Structural Engineers, Inc.

_job position:_ Project Engineer

_job description:_ KPW Structural Engineers is a leading Bay Area structural engineering firm located in Oakland’s Jack London Square. KPW specializes in the Life Sciences, Tech, Civic, Education, Mixed-Use, and Healthcare market sectors. We are a group of 30+ vibrant and outgoing individuals, and we’re looking to add to our team. We offer a relaxing and engaging work environment, challenging projects, supportive mentorship, and emphasize work/life balance.

We are currently looking for well-rounded and collaborative structural engineers with 2-7 years of experience to join our team. The ideal candidate is someone who is looking to be challenged technically, able to manage all phases of a project, work independently and in groups, embrace technology and apply it to their work, and are enthusiastic about their professional growth.
Job Requirements:
• BS degree in Civil Engineering with completion of relevant coursework in Structural Engineering
• Registration as a Civil Engineer in the State of California
• Experience with Steel, Concrete, and Wood-framed design

Desired:
• MS degree in Civil Engineering with an emphasis in Structural Engineering
• Three years of engineering experience in the structural engineering field
• Experience with Building Information Modeling

Essential Functions:
• Responsible for the production of engineering documents such as reports, calculations, and drawings that are complete and technically accurate
• Supervises and mentors Staff Engineers and CAD staff
• Responsible for handling interactions with the client regarding technical design issues, coordination of document preparation, and submittal schedules
• Responsible for tracking KPW project costs, meeting contractual obligations within the stated terms with an emphasis on efficiency

How to Apply / Contact
To apply please visit https://www.kpwse.com/careers. We look forward to learning more about you.

Strandberg Engineering
Job Position: Structural Engineer

Job Description: We are currently seeking Project Engineers and Staff Engineers. Strandberg Engineering is a lively structural engineering firm located in San Francisco. We have a love for beautiful architecture and great design, and want our work (whether visible or not) to have the same standards. Our work includes the design, analysis, and preparation of construction documents for residential, commercial, and mixed-use buildings. We work with a diverse set of architects, contractors, and building professionals from design through construction.

Learn more: www.strandbergeng.com

Staff Engineer
Project technical support with close supervision (including structural design and analysis, computer modeling, calculations, drafting, drawings coordination, construction administration or field support).

Project Engineer
Licensed Professional Civil or Structural Engineer in California. Project design and coordination with some autonomy. Structural design and analysis, drawing development, construction administration or field support, close interaction with the design and construction teams.

Desired Qualifications:
• Knowledge of mechanics of materials, timber, reinforced concrete, and steel design
• Experience in AutoCAD, RISA, and Revit
• Experience in SAFE, ETABS, and Enercalc

Benefits:
• Competitive salary
• Paid holidays and Paid Time Off
• Matching 401k and Profit Sharing
• Health Insurance
• Wellness program (reimbursement for wellness expenses)
• Semi-flexible hours
• Year-end bonus
• Paid Professional Development (including professional dues and professional licensing exams)

How to Apply / Contact
Please email a cover letter and resume to: hiring@strandbergeng.com