



CONNECTIONS

October 2020 Volume 21 Issue 1

Newsletter of the
Structural Engineers
Association of Oregon

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Upcoming SEAO Meetings and Events:

Wednesday, October 28, 2020: SEAO Chapter Virtual Meeting

Topic: Bridges to Prosperity: How to Design and Build Cable Trailbridges

Speaker: Nicola Turrini, Engineering Manager, Bridges to Prosperity

Time: 11:45 am to 1 pm

Link to Access Meeting: Register online at <https://www.seao.org/events/oct2020/how-design-and-build-cable-trailbridges> and a link to the meeting will be sent via email the evening of October 27.

Cost: \$25 Member, \$35 Non-member, \$10 Affiliate Member

PDH: 1 Hour (no credit to Affiliate Member)

See page 3 additional meeting information.

Wednesday, November 4—6, 2020: NCSEA Virtual Structural Engineering Summit

Visit <http://www.ncsea.com/events/annualconference/> for more information.

The Structural Engineering Summit draws the best of the structural engineering field together for the best practical education. Registration includes:

- 26 hours of Available Education
 - Easy virtual access to the Trade Show
 - Captivating Keynote Addresses by Expert Speakers
 - Unique Networking Opportunities
- Cost: \$545 Member (Note: SEAO members are automatic members of NCSEA)
\$745 Non-Member

Thursday, November 12, 2020: SEFW 10th Annual Fall Forum Virtual Event

Topic: Bridging Washington: The History, Structure & Innovation of Washington Bridges

Speakers: Maureen Elenga & John Stanton, PhD

Time: 5 pm

Register online at www.sefw.org.

Cost: Free

See page 5 for additional information.

SEAO has a twitter
account and can be
followed at
[@SEAOregon](https://twitter.com/SEAOregon).



CONNECTIONS is a monthly publication of the Structural Engineers Association of Oregon, published to disseminate current news to our membership and others involved in the profession of structural engineering. The opinions expressed reflect those of the author and, except where noted, do not represent a position of SEAO.

Send membership inquiries to:
9220 SW Barbur Blvd.
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PRESIDENT'S MESSAGE

BY: *DUSTY ANDREWS*



Welcome to the start of a new year for the Structural Engineers Association of Oregon. As the incoming president, it is my pleasure to serve you, the members. I was first introduced to SEAO almost 20 years ago by Pat Hynes (Past President). He dragged me along to a presentation that he was doing, and I got the hook. I would like to thank him for being a great mentor and pushing me to be a better engineer, leader, and friend. The organization is full of dedicated and inspiring individuals that make this a great community to be involved in. I look forward to working along side the board as we traverse these unique times.

BOARD OF DIRECTORS

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SEAO has a long list of people who have been dedicated in serving and pushing the profession forward. I would like to thank the Board for their tireless efforts. To the outgoing members, Norm Faris and CJ Marquardt, your efforts are appreciated. For the continuing members; Mike Daily, Steve Trautwein, and Alex Stroud, thank you for your continued efforts. For our newest Board members; David Linton and Eric Davis, welcome. We look forward to your fresh faces and new ideas. I would also like to thank all the committee members that work behind the scenes to tackle code issues and keep our members up to date with the newest information.

SEAO is an organization that thrives because of its members. We have an opportunity to make ourselves and the people around us better. As leaders in our companies, I challenge you to push your team members to better our profession and give back to the engineering community. SEAO has a variety of committees that are working on different aspects of the code that allow us to be better engineers. It is also an avenue to the national level through NCSEA. These committees are changing the engineering world and you can be a part of it. For those of you looking to get involved, please contact one of the SEAO Committee Chairs. For those of you that may be apprehensive, let me be the first to say that we need people at all stages of their career. Even if you are not the "expert" on the subject matter, what better way to learn.

Along the lines of getting involved, NCSEA is holding another Member Outreach Challenge. As engineers, we rarely feel the need to brag about how awesome our profession is outside our field. This is our chance. Last year, Oregon placed 3rd among members of NCSEA, and we received a cool shake table as a prize. I would love to see us blow past last year's submission. These outreach entries can be formal engagements with the community, mentoring, political advocacy, articles in print, and many others. If you have a submission, please send to SEAO. We are amazing, just ask us!

In closing, I would like to thank each of you and your companies for the continued support. I was delighted at the number of participants in the September meeting. We, the board, will continue to work hard to provide value to the membership and look forward to the upcoming year. One of the great accomplishments of the previous year was the building of the new website. Be sure to visit it and see how we are helping to keep track of your PDHs from our events.

Enjoy the moment
Dusty

SEAO COMMITTEES

CODE ADVISORY COMMITTEE

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STRUCTURAL ENGINEERS EMERGENCY RESPONSE (SEER)

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OCTOBER CHAPTER VIRTUAL MEETING WEDNESDAY, OCTOBER 28, 2020, 11:45 AM–1:00 PM

Topic: How to Design and Build Cable Trailbridges

Description: How to design and build cable trailbridges in a rural and remote environment in order to connect people to basic needs and opportunities. This presentation will give the audience a general understanding of the main aspects of the design and construction practices followed by Bridges to Prosperity (www.bridgestoprosperty.org).



Speaker: Nicola Turrini, Civil Engineer, Bridges to Prosperity

When I decided to become a civil engineer, I was quickly interested in focusing my career on structures, particularly bridges. In 2014, after completing my masters degree in Civil Engineering, the opportunity to work as a Civil Engineer for Fhecor Consulting Engineers in Spain changed my life. In Madrid, I gained experience in international bridge design and developed personally and professionally in an international and multicultural background. I also improved my English and Spanish. During this time, I continued to pursue my teenage passion of music, and played in several different bands. When I learned of Bridges to Prosperity (B2P) in 2014, I reassessed my priorities within both my professional and personal life, which ultimately led to joining B2P's mission in Nicaragua as a Bridge Corps Fellow in 2016. After spending nine life-changing months in Central America and building eight different bridges for rural Nicaraguan communities, I decided to continue to positively impact the world with B2P. I currently work for Bridges to Prosperity in Rwanda, as the Engineering Manager.



Date: Wednesday, October 28, 2020

Time: 11:45 am—1:00 pm

Sign-up: Register at <https://www.seao.org/events/oct2020/how-design-and-build-cable-trailbridges> and a link will be provided via email the evening before the meeting for signing into the meeting

Cost: \$25 Member, \$35 Non-member, \$10 Affiliate Member

PDH Credit: 1 PDH is recommended for this program.

Questions: Contact Jane Ellsworth at jane@seao.org

SEER COMMITTEE UPDATE

BY: DAVID TARRIES, PE, SE

SEER Committee Update: FEMA has reached out to SEAO, ASCE, AIA, and OBOA in the hopes that we might all work together in the near future to assist with reconstruction efforts in areas affected by the 2020 wildfires.

As volunteer opportunities become available, the SEER committee will pass on information. Members interested in being on a first contact list should email seer@seao.org.

If any members have experienced loss from the wildfires and have not been able to find some of the FEMA paperwork, please reach out to seer@seao.org. There are a number of forms we have on file, and we have a FEMA contact that we could reach out to for additional assistance if needed.

SEAO LINKED-IN ANNOUNCEMENT

The Board is excited to announce that SEAO is now on the Linked-In website.

Please follow our page for a digital way to stay up-to-date on all upcoming events, announcements, and more.

Search for us on Linked-In or click on the following link and search for Structural Engineers Association of Oregon:

<https://www.linkedin.com/>

2020 NCSEA PUBLIC OUTREACH CHALLENGE

The NCSEA External Communications Committee invites SEAO to be recognized for their outreach efforts over the past year via the 2020 Member Organization (MO) Public Outreach Challenge. Visit <http://www.ncsea.com/awards/challenge/> and tell us how you're helping ensure that *"practicing structural engineers are recognized by clients, media, policymakers, educators, students, and the public for the value of their contributions to society."*

Each SEA may submit up to one entry for each of the following categories:

- Public Outreach
 - Creating or expanding your electronic engagement (*website, social media, e-newsletters*)
 - Assisting with publication of structural engineering media content (*newspapers, magazines, interviews, podcasts, video series*)
- Political Advocacy
 - Influencing public policy (*SE licensure, code adoptions*)
 - Providing educational and/or event opportunities supporting political actions
 - Supporting programs for engineers to stay in touch with political representatives and officials
- Students and Educators
 - Forming partnerships with schools
 - Offering mentoring or job shadow programs for college students
 - Awarding scholarships to students studying Structural Engineering
- Other Outreach Programs Related to Current NCSEA Initiatives:
 - Collaboration with allied organizations, i.e. ASCE/SEI, CASE, etc. to address issues relevant to the profession
 - Diversity, equity and inclusion efforts including those related to [NCSEA Call for Action](#), such as:
 - Advocacy efforts for underrepresented individuals in the middle school and high school levels
 - Mentoring programs for underrepresented professionals
 - Creation of and/or engagement with student chapters at the university level to increase the diversity of engagement in programs that lead to careers in structural engineering.

Submissions are due December 15, and winners will be announced at NCSEA's Annual Business Meeting next year. If you have any activities that meet the description above as an Outreach Program, please send them to Eric Davis at ericd@miller-se.com or feel free to contact him directly via email to ask any additional questions.

Last year SEAO was awarded 3rd place in the country for the number of entries submitted for consideration. Let's win again!!

SEFW ANNOUNCES 10TH ANNUAL FALL FORUM

The Structural Engineers Foundation of Washington is pleased to announce details for its 10th Annual Fall Forum, to be held virtually on Thursday, November 12, 2020. “Bridging Washington: The History, Structure, and Innovation of Washington Bridges” will be presented by Maureen Elenga, local author and historian, and John Stanton, PhD, professor of Civil Engineering at the University of Washington.

The 7,300 bridges in Washington state are full of stories. Some are stories of history and culture, necessity and politics, or the challenges and marvels of engineering. Learning these stories connects communities more closely to their built environment and honors the design, engineering, and legacy of these significant spans. Ms. Elenga will share the cultural, quirky, and even surprising histories of several local bridges, while Dr. Stanton will reveal engineering mysteries to bring them to life for the technical observer. The event will be of interest to designers, engineers, students -- and anyone who travels over bridges.

The free event will broadcast live from Seattle Town Hall and include an interactive question and answer session. Registration for the event is requested and is open at www.sefw.org.

SEFW is particularly eager to personally invite and engage SEAW/SEAO members statewide, who each have opportunity to participate in this momentous event!

The details in summary:

- 10th Annual SEFW Fall Forum
- “Bridging Washington: The History, Structure, and Innovation of Washington Bridges”
- Featuring speakers Maureen Elenga and John Stanton
- Date: November 12, 2020
- Time: 5 PM
- Cost: FREE
- Virtual event, link TBD
- Register at www.sefw.org

Corporate partnership opportunities are available and will be sent to firms later this month. Individuals are also invited to become “Friends of the Foundation” with a \$100 donation. All partners and Friends will be recognized at the virtual event.

Please contact any SEFW Board member with questions or email the administrator at admin@sefw.org.

PHOTO CONTEST: CALL FOR PHOTOS OF YOUR HOME OFFICE

SEAO is holding a photo contest of scenes from your home offices. As the pandemic has resulted in most of us working from our homes, we want to see photos of your offices. Humor will be considered a bonus and staged photos are encouraged. We will include monthly winners in our newsletters.

We can all use some smiles!! Please consider participating in this light-hearted event.

Send your photos to Jane at jane@seao.org in either jpg or pdf format (jpg is preferred format).

DUES REMINDER

Annual dues for SEAO membership are due on October 31, 2020.

You can make checks payable to SEAO and mail to:

9220 SW Barbur Blvd, No. 119

Portland, OR 97219

Or renew online using a credit card by going to www.seao.org

Renewals:

Member (licensed PE in Oregon): \$115

Affiliate Member (unlicensed): \$105

Student Member (full-time student in Civil or Structural Engineering): \$18

Life Members or Retired Members/Affiliates: \$25

Membership must be current (dues paid) to have your name included in our annual roster.

To update our records, please be sure that we have your correct address, name of your company, current phone numbers, and your email address. This will guarantee that you are receiving all correspondence and information from SEAO. You can update your information online or if you have any questions contact jane@seao.org.

2020 SEAO AWARDS UPDATE

AWARDS HAVE BEEN POSTPONED

The Awards program has been moved to the SEAO Chapter meeting in January 2021 to allow for an in-person Awards program. At this time Multnomah County remains in Phase 1 status, which limits gatherings to not more than 10 people. SEAO will also look at options for how we might present the Awards virtually should it look like progress has not been made toward a Phase 2 opening by January.

Deferring the Awards program to accommodate an in-person meeting will allow SEAO the time to present each project submitted and the time for speeches from Award winners. The meeting will focus solely on the Awards program, celebrating our membership's projects submitted for Awards consideration.

Judging is currently underway and will be completed this month.

Projects are being judged on innovative design, engineering achievement, and creativity.

Awards will be presented in the following categories:

- New Buildings Under \$20 Million
- New Buildings Over \$20 Million
- Renovation/Retrofit
- Special Use Structures
- Jurors' Favorite

Want to get involved? The Awards Committee is looking for new members. Email Brynn Adkins at badkins@tmrippey.com.

WEBSITE UPDATE

SEAO's new website is up and running. It is more user-friendly and up-to-date.

One new feature is each member's ability to track their PDHs and upload PDH certificates to their personal profiles (even for non-SEAO PDHs).

Check it out at seao.org.

ASK A QUESTION, GET AN ANSWER

Do you have a code question you would like to ask the Wind Committee or Snow Committee? SEAO is pleased to announce a simple way for Q&A's with technical committees. Email questions to jane@seao.org, and SEAO will direct your question to the appropriate committee chair for a response. Questions and their answers will be made anonymous and available to the membership on the website www.seao.org.

Committees include: Seismic, Wind, Snow, Code, Vintage Building, and Special Inspections.

SE REFRESHER & EXAM REVIEW COURSE ON-LINE & ON-DEMAND

NCSEA's SE Review Course is completely on-demand. Review course materials and watch the recordings when it is convenient for you for an entire year. Plus, attendees have access to virtual classroom to ask the instructors questions whenever they arise. The NCEES PE Structural Exam Prep Course allows you to study at your own pace but with instant access to the material and instructors. All lectures are up-to-date on the most current codes.

The Virtual Classroom provides you an on-line chat room for course discussion with all the instructors and the students. In addition, students can email instructors directly with questions.

The Course includes:

- 30 Hours of Instruction (8 Vertical Sessions + 10 Lateral Sessions)
- Exam Preparation Tips
- Problem-Solving Skills to Pass the Exam
- Handouts & Quizzes
- The Virtual Classroom
- Exam Study Guide

Cost for NCSEA/SEAO Members: \$495

Non-Members: \$695

Group rates: See <http://www.ncsea.com/education/sereview/>

EMPLOYMENT OPPORTUNITIES

VLMK ENGINEERING & DESIGN

Structural Engineer
Portland, OR

VLMK Engineering + Design is accepting applications for an experienced or mid-level Structural Engineer ranging from 3 to 10 years of experience who are passionate about engineering and want to broaden their experience working in a collaborative, multifaceted environment with a variety of project and building types.

If you think this might be you, please see the full posting on our website at www.vlmk.com for additional requirements and the benefits of joining VLMK. If you have questions, please contact Trent Nagele at trent@vlmk.com.

Pillar Consulting Group

Structural Engineer
Corvallis, OR

Pillar Consulting Group, Inc. is a long established engineering firm located in beautiful Corvallis, OR. We provide civil and structural engineering facility design services throughout the West Coast. Clients consist of architects, contractors, and facility owners.

We are looking for a well-qualified structural engineer with 2+ years of structural engineering experience to be a long-term partner. Experience with steel design and applicable building codes is a requirement. Experience with design in other materials as well as Revit is a plus. We offer health care including dental and vision as well as an IRA plan with company matching. Want to live and work in the Willamette Valley? Come join us! Prefer to stay in your current Oregon home? Lets talk.

Please visit www.pillar-inc.com for more information. Please send resumes to admin@pillar-inc.com.

OTAK, INC.

Senior Building Engineer
Portland, OR & Vancouver, WA

Otak, Inc. is seeking to hire a Senior Building Engineer to work in either our Vancouver, WA or Portland, OR offices. The primary duty of the Senior Building Engineer will include serving as a technical expert in engineering analysis and design for all structural aspects in support of architecturally designed and site development structures, perform complex structural planning, and have a proven background of technical leadership on these types of projects. Other duties also include the supervision of junior engineers in the performance of engineering tasks.

Qualifications:

- Bachelor's degree in Civil or Structural Engineering
- Registered Structural Engineer
- 10+ years of proven experience in all aspects of building structural engineering working directly with architecture and public Clients
- Solid client services and business development skills are required
- Proficiency with Microsoft Office software, current structural software applications
- Proficiency and familiarity with applicable Codes, including specialty codes such as the Oregon Structures Specialty Code, Washington State Building Code, etc.
- Demonstrated leadership skills, strong written and verbal communication skills and the ability to work with various teams throughout the organization

TO APPLY: https://www.otak.com/careers/open-positions/open-position-details/?gh_j...

Why work at Otak?

When you work at Otak, you aren't just joining a firm — you're joining a community. We believe our best work happens in a culture of collaboration and inclusion, where the expertise of diverse individuals can thrive in a foundation of teamwork. The work environment we create is built on a simple concept: working on interesting projects with interesting people. However, we don't just believe in cultivating our own community; we're also committed to enriching the communities around us with smart, creative solutions. We know our employees make an investment in us, so we're

(Continued on Page 8)

EMPLOYMENT OPPORTUNITIES (CONT.)

OTAK, INC. (CONT.)

Senior Building Engineer
Portland, OR & Vancouver, WA

committed to making an investment in them. Seasoned experts and young professionals work together to encourage personal growth and skill development at all experience levels. Plus, we're expanding — and we're dedicated to developing an internal infrastructure with the strength and talent to support that growth.

Otak employees have a progressive mindset and sustainable community perspective. We encourage our staff to volunteer in their communities by giving them an option to earn extra vacation time for their volunteer hours. Otak combines the best of a small firm mentality with strong collaboration across disciplines with the plentiful opportunities to work on exciting projects offered by a growing firm. We also encourage life balance and foster a fun work environment. Our Northwest sensibilities are reflected in our commitment to sustainability and diversity. And believing that diversity fosters innovation and strengthens our skills, we embrace a culture of inclusion and equity in our company and in our communities.

We are an equal opportunity employer. We do not discriminate on the basis of race, religion, color, national origin, gender, sexual orientation, age, marital status, veteran status, or disability. We will provide reasonable accommodation for qualified individuals with a disability where appropriate.

Sound like a place you'd like to spend some time and advance your career? Join us! Please apply online and include a cover letter that sells your skills with your resume.

MORRISON MAIERLE

Mid to Senior Level Structural Engineer
Bozeman, MT

We have exciting full-time opportunities in our **Bozeman, Montana** office for **Structural Engineers** ranging in experience from **mid to senior level**.

These positions will work innovatively and collaboratively with the firm's full-service Mechanical, Electrical, Structural Buildings Market Group, as well as with the Civil Engineering disciplines within Morrison-Maierle to create comfortable, healthy, energy efficient, sustainable, and productive spaces.

Responsibilities will include performing technical structural design, analysis and calculations, preparing construction documents, collaborating and coordinating with clients and project design team members, and performing construction administration. Duties may include managing budgets, schedules and deliverables; undertaking the technical work associated with engineering design; leading business development pursuits; leading, managing and mentoring junior engineers. Project management, client service and team leadership skills are fundamental to the firm's daily environment.

Please visit our website at www.m-m.net for more information

Apply online at www.m-m.net.