



CONNECTIONS

February 2023 Volume 22 Issue 5

Newsletter of the
Structural Engineers
Association of Oregon

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SEAO has a LinkedIn account
and can be followed at [SEAO
LinkedIn Page](#).

Upcoming SEAO Meetings and Events:

Thursday, February 9, 2023: SEAO SE3 Committee Licensure Webinar (Free)

Time: 4:30 pm—5:30 pm

See Page 7 for more information.

Monday, February 13, 2023: SEAO Lunch Chapter Meeting

Topic: Landslides in Oregon

Speaker: Dr. Scott Burns, PSU Geology Professor (retired)

Time: 11:30 am to 1:00 pm

Location: Portland City Grill, US Bancorp Tower, 111 SW 5th Ave, 30th Floor, Portland, OR

PDH: 1 Hour. Cost: \$35 Member; \$45 Non-Member; \$20 Student

See Page 3 for more information.

Tuesday, February 28, 2023: Engineers Week High School Program Luncheon

Topic: Engineer's Lessons Learned from Training Astronauts & Working in Mission Control

Speaker: Jessica Ollero, NASA

Time: 11:45 am to 1:30 pm

Location: Lloyd Center DoubleTree Hotel, 1000 NE Multnomah St, Portland, OR

General Sponsorship Cost: \$80.

For more information see pages 5 and 11.

Tuesday, March 7, 2023: SEAO Lunch Chapter Meeting

Topic: Tacoma Narrows Bridge Forensic Analysis

Speaker: Marc Sokol, M.S., P.E., S.E.

Time: 11:30 am to 1:00 pm

Location: Portland City Grill, US Bancorp Tower, 111 SW 5th Ave, 30th floor, Portland, OR

PDH: 1 Hour. Cost: \$35 Member; \$45 Non-Member; \$20 Student

Visit: <https://www.seao.org/events/mar2023/tacoma-narrows-bridge-forensic-analysis> for more information and to register.

March 27—29, 2023: International Mass Timber Conference

Location: Oregon Convention Center, Portland, OR

See Page 4 for additional information. For more information and to register, visit: <https://masstimmerconference.com/>

Tuesday, April 11, 2023: SEAOSF Trade Show & Trivia Night

Trade Show Time: 5 pm to 8 pm

Pre-Trade Show Mini-Seminars Topic & Times: To Be Determined

Location: Monarch Hotel & Conference Center, 12566 SE 93rd Avenue, Clackamas, OR

Cost: Free to SEAO Attendees

See Pages 4 and 10 for more information.

Tuesday, May 9, 2023: SEAO Lunch Chapter Meeting

Topic: Taylor Devices Update

Time: 11:30 am to 1:00 pm

Location: Portland City Grill, US Bancorp Tower, 111 SW 5th Ave, 30th floor, Portland, OR

PDH: 1 Hour. Cost: \$35 Member; \$45 Non-Member; \$20 Student

Visit: <https://www.seao.org/events/may2023/taylor-devices-update> for more information and to register.

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:

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PRESIDENT'S MESSAGE

BY: PEDER GOLBERG

SEAO Members,



One month down already in 2023 with Valentine's Day on the horizon. Speaking of Valentine's Day, it is on the 2nd Tuesday of the Month which is our normal day for having our SEAO Lunch Chapter Meetings. So – please update your calendar, as February's Lunch Chapter meeting will instead be held on Monday, February 13.

Speaking of normal, SEAO has traditionally held our annual Tradeshow in the month of February. While you have your calendar out, note that the tradeshow is coming back after a few years hiatus and will be held in-person on Tuesday, April 11th at the Monarch Hotel in Clackamas, Oregon. The hope is that waiting until April will allow more vendors and engineers to attend.

Well, we are always in need of new committee members (all committees) and looking for new chairs for the seismic and wind committees (and others). We held our once-a-year dinner SEAO Chapter meeting last month and used the first hour as a social hour to meet the committee chairs and sign-up to volunteer. A few new members attended, which was great. We would like to see more. This social hour was followed by a great and very informative presentation by one of our own members, Jason Thompson of Catena Consulting Engineers, on the Knight Science Building, which had more unique structural issues than I would have ever guessed. Last month we also had our SEAO Winter Seminar which featured another of our own members, Seth Thomas of KPFF Consulting Engineers, with a very informative presentation on changes coming with the ASCE 7-22 and IBC 2024. Note that the OSSC 2022 goes fully into effect April 1, and it is still based on ASCE 7-16.

The committee that I want to highlight this month is the SE3 committee chaired by Anabel Shephard of PCS Structural Solutions. This group's mission is to raise awareness and promote dialogue on professional practice issues. They are working on things such as career advancement, compensation, and work-life balance. SE3 officially stands for Structural Engineering Engagement and Equity. They are currently promoting classes for those who will be taking the professional engineering exams, and it is never too early to start planning for that. See page 7 for more information on their next class.

Last item for this month is to remind you that the golf tournament will be back at Langdon Farms and co-hosted with OACI. Last year, this tournament sold out within the first two weeks after it was announced and unfortunately, it was attended by 90% OACI members and 10% SEAO members. It is a great function with lots of raffle prizes and lots of fun. So – plan your foursomes now and do not delay signing up when the date gets announced. Let's get that ratio closer to 50/50. The Tournament will be in the August timeframe.

Peder

SEAO COMMITTEES

CODE ADVISORY COMMITTEE

Seismic
NEW CHAIR STARTING SOON

Wind
OPEN CHAIR

Snow Load
Andy Stember
andy@jasenginc.com

Code
Eric Watson
eric@miller-se.com

Vintage Building
Jennifer Eggers
jennifer.eggers@holmesstructures.com

Special Inspections
Eric Watson
eric@miller-se.com

Mass Timber
Eric McDonnell
Eric.McDonnell@holmesstructures.com

STRUCTURAL ENGINEERS EMERGENCY RESPONSE (SEER)

David Tarries
David.tarries@portlandoregon.gov

PROGRAM COMMITTEE

Monthly Meetings
OPEN CHAIR

Awards
Brynn Adkins
badkins@tmrippey.com

Golf Tournament
OPEN CHAIR

Conferences
Kevin McCormick
kevin@miller-se.com

ADVOCACY COMMITTEE

Website
Seth Thomas
seth.thomas@kpff.com

Engineers Week
Michelle Juarez
michelle@miller-se.com

Young Member Forum
Eric Esqueda & Emma Olds
YMF.seao@gmail.com

SE3
Annabel Shephard
shep.annabel@gmail.com

CONTINUING EDUCATION COMMITTEE

Seminars
Andy Stember
andy@jasenginc.com

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NCSEA & WCSEA/NWC
David Linton
dlinton@mcknize.com

Seth Thomas (Alternate)
seth.thomas@kpff.com

FEBRUARY CHAPTER MEETING MONDAY, FEBRUARY 13, 2023, 11:30 AM–1:00 PM SPONSORED BY:



Topic: Landslides in Oregon—Lessons Learned

Description:

Dr. Burns has been working on landslides in Oregon for over 30 years and has been involved the remediation of many of those that have happened in the Pacific Northwest. He will talk about a lot of case histories and what we have learned from them.

Speaker: Scott Burns, Portland State University

Scott Burns is an engineering geology professor at Portland State University. He has been teaching at the university level for 53 years, with previous positions in Switzerland, New Zealand, Colorado, and Louisiana before coming home to Oregon 33 years ago. He has been national president of AEG (Association of Environmental and Engineering Geologists) and the president of IAEG (International Association of Engineering Geologists) and the Environment from 2014-2018. He has two degrees from Stanford University and his PhD from the University of Colorado. He has been married for 48 years and has three children.



Location: Portland City Grill, 111 SW 5th Avenue, 30th Floor, Portland, OR
Parking information: Parking is the lower level of the Unico US Bank Tower, entrance on 5th and Pine, or parking is available in the parking garage at SW 4th and Pine. Parking is free for the first 2.5 hours with validation by Portland City Grill.

Time: 11:30 am—Networking & Lunch	Cost: \$35 Prepaid Members
Noon to 1 pm—Program	\$45 Prepaid Non-Member
	\$20 — Students

Reservations: Pre-registration is required for all. You can register and pay online at <https://www.seao.org/events/feb2023/landslides-oregon-lessons-learned> before noon, Friday, February 10. You can also register with Jane Ellsworth via phone at (503)753-3075 or via Email: jane@seao.org. Note: No-shows will be billed.

PDH Credit: One PDH has been recommended for this program.

Questions: Contact Jane Ellsworth at jane@seao.org

MASS TIMBER CONFERENCE 2023 MARCH 27-29, 2023

The International Mass Timber Conference will be held March 27—29, 2023, at the Oregon Convention Center in Portland, Oregon.

The conference has several tracks for attendees, including:

Track 1: Is Housing Mass Timber's Next Big Thing?

Track 2: Enabling Long Term Success by Sharing Lessons Learned

Track 3: Sustainability Throughout the Supply Chain

Track 4: Dispelling Myths Regarding Budgets, Estimates, Cost and Returns

FYI: Hotel rooms have sold out at the Eastlund Hotel and the Hyatt Hotel. Alternate hotel options can be found at the following link: <https://www.travelportland.com/plan/lloyd-hotels/>. For more information, visit: <https://masstimberconference.com/>

2023 SEAOSF TRADE SHOW & TRIVIA

Save the Date! The 2023 SEAOSF (Scholarship Foundation) trade show will be held on April 11, 2023 at the Monarch Hotel in Clackamas, Oregon. SEAOSF is now accepting registration for Pre-show mini-seminars and for vendor booths in the exhibitor hall.

SEAOSF will also be holding a raffle during the trade show to raise money for the SEAOSF scholarships. Donations to the raffle are greatly appreciated. Donations will be announced at the raffle and in the newsletter for additional name exposure.

See Page 10 for a flyer providing more information and fees for exhibiting goods and/or services and for making donations.

Look for information in future newsletters for additional information on trade show, mini-seminars, and trivia.

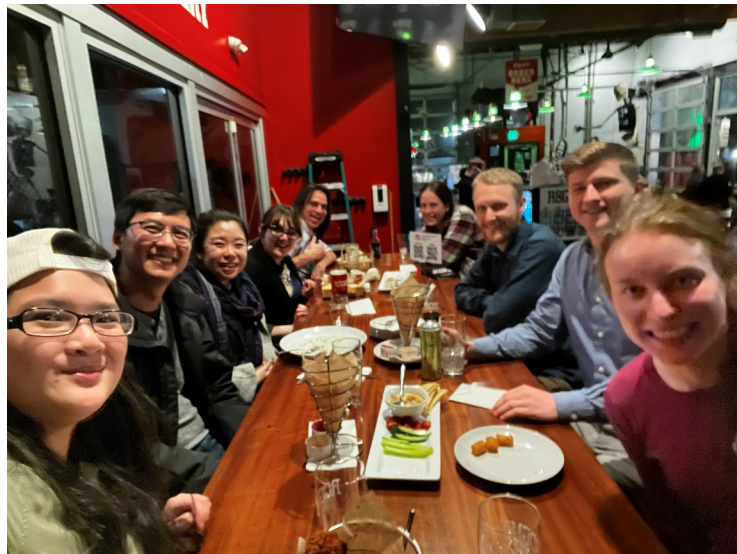
SEA NORTHWEST CONFERENCE SEPTEMBER 14-15, 2023 SAVE THE DATE

After a three-year hiatus, the annual 2023 SEA Northwest Conference (NWC) will be held September 14 and 15, 2023, at the Bellevue Hilton Hotel, 10 miles east of downtown Seattle.

The Seattle Chapter of SEAW is excited about the restart of the SEA Northwest Conference and hopes to see SEAO members at the conference in September.

This year's theme is "Innovation in Structural Engineering".

YMF UPDATE



January's YMF happy hour was held at Rogue Eastside.

YMF's gatherings continue to be held in person every third Thursday of the month, so mark your calendars.

If you would like to be added to the email distribution list that announces future YMF events to their members, please email ymf.seao@gmail.com. If you ask to be added and don't see emails from YMF, please check your spam folder as it is distributed as a mass email and some servers read them as spam until you add them to your "safe senders" list.

2022 NCSEA SUMMIT RECAP

NOVEMBER, 2022

BY: DAVID LINTON

In November, David Linton (delegate) and Seth Thomas (alternate delegate) attended the NCSEA Summit in Chicago as representatives of SEAO. Others from Oregon also attended, including Ed Quesenberry (NCSEA past president). After both the 2020 and 2021 Summits were either virtual or rescheduled due to COVID, this Summit had a sense of return to normal.

As delegates, it is our responsibility to be a conduit from NCSEA to SEAO and bring our successes or challenges forward to the other state organizations to help each other improve. Some states have very small memberships and others have numerous members and additional resources that come with that. Seth and I were able to get some good face time with our SEAW partners to the north to discuss plans for the 2023 SEA NW Conference. Save the date for September 14th & 15th or visit [2023 SEA NW Conference — SEAW](#) for more details.

A big initiative that NCSEA has been working on and working with member organizations on implementing is the “We SEE Above & Beyond Campaign”, which is a national marketing effort focused on bringing awareness to structural engineering by leveraging social media platforms. Check it out at <https://www.weseeaboveandbeyond.com/> and hashtag your personal or company engineering posts with **#WeSeeAboveandBeyond**. The more people understand what engineers do, the more our profession becomes valued.

If you haven’t attended a Summit, it is a good opportunity to meet other engineers and attend seminars on the latest technical development in engineering (code changes, sustainability, integrated project delivery, new technologies, etc.). Two sessions that were particularly interesting had nothing to do with technical engineering but are topics that I’m sure most of us encounter regularly:

- “Leading Women in the Built World: What It Took to Get Where We Are and What It Should Take for the Next Generation” - A panel of women leaders in the AEC industry gave their perspective on how they got to their executive position and what can help more women reach the top of their profession.
- “Working Across Generational Differences” – A panel of engineers across the four working generations discussed differences in technology, communication preferences, and other soft skills that impact how we work together.

The 2023 NCSEA Summit will be held Tuesday, November 7 through Friday, November 10, 2023, at the Disneyland Hotel in Anaheim

ENGINEERS WEEK

TUESDAY, FEBRUARY 28, 2023

CALL FOR SPONSORS & ENGINEER SIGNUP

Oregon E-Week is excited to announce that they are returning to an in-person event this year.

Location: Lloyd Center DoubleTree Hotel at 1000 NE Multnomah Street in Portland, Oregon.

The event will include an Exhibit Hall, lunch banquet with keynote speaker, morning sessions with panel discussions and project presentations and field trips. All is geared towards high school students.

To-date they have received or have committed funds totaling over \$12,000 from contributing sponsors. Organizers are looking for additional sponsors from the engineering community to help them to provide the best experience for high school students.

Organizers are also looking for local engineers to sign-up and attend the luncheon banquet to meet with students and discuss structural engineering.

If you would like to participate in sponsorship, attending the luncheon, or would like more information, please visit <http://www.oregonengineersweek.org>.

See page 11 for flyer and more information on current sponsors.

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 provide 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.

NCSEA UPCOMING LIVE WEBINARS

February 9, 2023, 10 am Pacific Time (Fee for Webinar)

Repair, Defer, or No Action: Leveraging Structure Movement Monitoring for Efficient Capital Planning and Decision Making

Speakers: Steve Keppel, PE, and Giuliana Zelada-Tumialan, of Simpson Gumpertz & Heger

Visual distress symptoms can be alarming to building owners. Many times these symptoms lead to costly and disruptive repairs, however not all distress symptoms are equal. In many situations, structure movement monitoring can help an Engineer evaluate these concerns and develop targeted and timely recommendations, providing tremendous value to the Owner. Sloped floors, racked windows and doors, or step-cracks in masonry and foundation walls can be indicative of a variety of problems. The symptoms could be a sign of structural distress in need of immediate and emergency repair or conversely may be the remnant of movement that occurred some time ago and has stabilized. An effective structure monitoring program helps Owners understand the source of distress, serves as a tool to document symptoms over time, and ultimately helps the Owner and its Engineer make decisions about the timeliness of repairs needed, if any. Structure movement monitoring can also be used to confirm the performance of completed repairs. This seminar discusses some of the available movement monitoring tools, how to plan an effective movement monitoring program, and how the information can assist in making and prioritizing appropriate repairs. (1.25 PDH)

February 21, 2023, 10:00 am Pacific Time (Fee for Webinar)

What is New in TMS 402/602 Masonry Code

Speaker: Richard Bennett, PhD, PE, University of Tennessee, Knoxville

The 2022 edition of the TMS 402/602 Building Code and Specification for Masonry Structures has just been released. This session will cover some of the major changes. Three major changes are the addition of compression-controlled sections in strength design, a complete rewrite of the veneer chapter including the addition of an engineered method, and the addition of appendix on glass fiber reinforced polymer reinforced masonry for non-participating members. Other changes include harmonizing prescriptive reinforcement requirements between allowable stress and strength design, anchor bolt steel strength, and modifications to the shear friction provisions. The basis and impact of each of these changes will be presented. (1.25 PDH)

February 23, 2023, 10 am Pacific Time (Fee for Webinar)

Tolerance & Constructability Considerations for Steel Reinforced Concrete Buildings

Speaker: David Fanella, SE, PE, CRSI

This presentation provides guidelines to identify tolerance conflicts commonly encountered in the construction of steel reinforced, cast-in-place concrete buildings. Recommendations on how to possibly avoid and remedy such conflicts are also given. Also covered are general recommendations that, when implemented, will help improve constructability and reduce RFIs. (1 PDH)

February 28, 2023, 10 am Pacific Time (Fee for Webinar)

AISC Design Guide—Hybrid Steel Frames with Wood Floors

Speaker: John Hand, PE, SE, Arup

The presentation will introduce this hybrid typology and the key features of the AISC Design Guide. The overview will include typical building systems, benefits, common challenges, and case studies with an aim to introduce the audience to the key multidisciplinary considerations of fire design, acoustics, sustainability, and structural design relevant to this hybrid system. (1.25 PDH)

March 2, 2023, 10 am Pacific Time (Fee for Webinar)

Architecturally Expressive Structural Steel and Stainless Steel

Speaker: Jacinda L. Collins, PE, Cast Connex

When properly executed, the decision to expose structural steel offers a powerful opportunity to express a project's tectonics and aesthetic goals. The 2016 American Institute of Steel Construction (AISC) Code of Standard Practice for Steel Bridges and Buildings (ANSI/AISC 303) introduced the architecturally exposed structural steel (AESS) category system, a systematic method of communicating craftsmanship quality to support goals for the final appearance of the finished structure. Today, when properly understood and leveraged, the Category system can support project outcomes that meet designers' intent, are properly budgeted during the bid process, and achieve ultimate aesthetic goals for which fabrication quality is a foundation. This presentation will provide an overview of guidance on best practices for designers considering AESS for their projects. (1 PDH)

March 7, 2023, 10 am Pacific Time (Fee for Webinar)

Structural Engineers, Envelopes, and Energy Codes

Speaker: James D'Aloisio, PE, Klepper, Hahn & Hyatt

Structural engineers who have a basic understanding of thermal envelope performance and energy code compliance can greatly enhance the overall objectives of a building project. The proper detailing of exterior structural elements, especially avoiding thermal bridging conditions and foundation insulation, can help avoid problematic energy losses, increased operational carbon emissions, and reduce the potential for condensation. We'll cover the basics of relevant aspects of energy codes and identify details to avoid and alternative design strategies. (1.5 PDH)

March 14, 2023, 10 am Pacific Time (Fee for Webinar)

Cold-Formed Steel—Latest Design Provisions

Speaker: John-Paul Cardin, PE, AISI

Cold-formed steel members and connections are commonly used in light-frame construction for framing, lateral force-resisting systems, and steel deck. The AISI Specification (AISI S100) and suite of Framing Standards (S220, S240, S230, S310, S400) are the IBC referenced standards governing the design, detailing, and installation of these members and assemblies. This presentation will cover some of the key updates to the AISI standards and introduce design guides to assist practicing engineers. (1 PDH)

There are also recorded webinars that can be purchased for professional development hours (PDHs) online at <https://www.pathlms.com/ncsea/events#on-demand-events-content>

SEAO SE3 COMMITTEE EVENT THURSDAY, FEBRUARY 9, 2023

Join SE3 for an **Introduction to the PE & SE Licensure Exams** on Thursday, February 9 at 4:30 PM. Our team of licensed engineers wants to give you the tools and information you need to prepare for and pass the PE and SE. During this hour-long webinar we will cover registration, preparation, and examination phases plus we will provide insight on the new computer-based PE test. Following the presentation there will be time for Q&A from our presenters.

Engineers of all ages and experience levels are welcome to attend this free webinar. Please reach out to Annabel Shephard at shep.annabel@gmail.com if you have any questions.

Below is a link to the Teams webinar site.

Meeting link: shorturl.at/gnUY1
Meeting ID: 226 022 035 174
Password: mngVd5

INTRO TO PE & SE LICENSURE

a webinar presented by SE3

Licensed engineers
presenting on tools and
information you need to
prepare for the PE and SE.

Engineers of all ages and
experience levels are
welcome.



Thursday, Feb 9
4:30 PM TO 5:30 PM



Join here:



questions? email shep.annabel@gmail.com

AWC FREE WEBINARS

AWC offers a number of free eCourses that will provide PDH credits to those that sign up. Simply login to AWC to create a free account at the following link: <https://woodcouncil.mclms.net/en/>. Upcoming free eCourses include:

Thursday, February 16, 2023: 10:55 am—12:30 pm PST

The Ascent: Approving the Climb (Course No. BCD900)

This course will discuss the approval of beyond prescriptive code tall mass timber developments through effective collaboration and project vision. Learn how the largest mass timber high-rise building in the world, the Ascent, was completed by involving the right people at the right time and approving IBC code variances supported by laboratory testing. Structural design concepts used for the structure metropolitan high-rise building firefighting concepts will be discussed briefly, as will for fire and code officials, engineers, and other design professionals. Learning Objectives:

- Describe the Design Principles and Construction Process utilized on the Ascent building
- Identify the varying IBC code year restrictions on Mass Timber height requirements and which one was chosen for the Ascent approvals and variances
- Define the basic firefighting principles of residential high-rise buildings, including mass timber buildings, and how developers, architects and engineers can incorporate these into future developments and approval processes
- List the approval process that was conducted in the development of the Ascent and how variances were approved

EMPLOYMENT OPPORTUNITIES

CITY OF PORTLAND

Structural Engineer
Portland, OR

The City of Portland, Bureau of Development Services is seeking a Structural Engineer. Engineers at BDS review the structural portion of permit applications to ensure compliance with applicable codes and regulations, that include a full range of commercial and residential structures.

Qualifications: Candidates must be Registered Professional Civil or Structural Engineers with an extensive background in structural engineering.

City of Portland offers competitive compensation and an excellent benefit package that includes an insurance plan with coverage for medical, dental, vision, life, and long-term disability; generous vacation and sick leave accrual benefits; several paid holidays; City-paid retirement contributions; and an employee-paid Deferred Compensation Plan. For more information or **TO APPLY**, please visit www.portlandoregon.gov/jobs.

ADC ENGINEERING

Structural Engineer
Charleston, SC

With offices in Charleston, Columbia, and Greenville, ADC provides civil and structural engineering on a broad-range of projects from historic renovations to massive federal site designs. ADC owes its 30+ years of success to the employees that work as a team, consistently giving our clients exceptional service. ADC is seeking a Structural Engineer for our Columbia and Charleston offices. We will also consider remote working options.

Applicants are required to have the following:

- Bachelor's degree in civil engineering (or equivalent)
- Revit experience
- RAM Structural System or ETABS experience is preferred, but not required
- General knowledge of building construction materials and construction process
- 2-6 years of structural design experience

Please visit <http://www.adcengineering.com/careers> to learn more about ADC and the benefits offered. Qualified candidates please contact Steven Truschka at stevent@adcengineering.com.

OTAK

Structural Engineer
Vancouver, WA
or Redmond, WA



Otak is hiring a Bridge/Structural Engineer to join our team! We are a highly collaborative team with award-winning multidisciplinary expertise in urban design, architecture, planning, engineering, and construction management. Our Bridge/Structural Engineer collaborates with multi-discipline engineers, planners, architects, and public and private clients to design solutions for bridge and structure projects of all types, sizes and levels of complexity. From designing pedestrian and vehicular bridges; facilities at local, state and national parks; community transit services; and site development structures, we continually seek the best balance among the demands of form, function, safety, sustainability, constructability, schedule and budget.

This position may be based out of either our Redmond, WA or Vancouver, WA office. Please apply at: [Bridge/Structural Engineer - Redmond, WA](#) or [Bridge/Structural Engineer - Vancouver, WA](#). Send resumes to: Craig.meunier@otak.com.

EMPLOYMENT OPPORTUNITIES (CONT.)

KRAMER GEHLEN & ASSOCIATES

Structural Project Engineer
Vancouver, WA



Kramer Gehlen & Associates, Inc. -- a growing, well-established structural engineering firm in Vancouver, WA-- seeks a skilled, Structural Project Engineer with 2 to 5 years of experience to join our team. Responsibilities include engineering analysis, project management, coordination of structural drawings and development of lateral systems.

We are looking for a team member who is professional, collaborative, knowledgeable and organized with excellent verbal and written communication skills. Other beneficial qualities include detail orientation, resourcefulness, and initiative.

Our Company culture is friendly, team-oriented, and client-focused. We offer a flexible and family-friendly working environment.

Annual starting base salary: \$65,000 - \$85,000. Actual salaries will vary and will be based on several factors including consideration for a candidate's qualifications, skills, competencies, and proficiency for the role. Base salary is one component of our total compensation package for employees. KGA offers a total rewards package with comprehensive benefits including medical, dental, vision, FSA, disability, life, 401(k), annual bonus program, professional development assistance, paid parking, flexible work schedule, vacation (8 hours per month), sick leave (5 hours per month) and 8 paid holidays. For more information, please visit www.kramer-gehlen.com.

To apply, please email your cover letter and resume to: tawniem@kramer-gehlen.com

CATENA CONSULTING ENGINEERS

Structural Engineer
Portland, OR

catena consulting engineers provides the personal environment of a small firm while providing the opportunity to work on a variety of projects. Our projects vary in size from a single day's effort to large projects with construction values in excess of \$300 million. You will gain design experience in concrete, steel, timber, and masonry buildings and will work on a wide variety of project types including buildings created for healing, learning, living, and interacting.

Due to the technical complexity and challenge of many of our projects, we seek engineers that hold a Masters degree, and that have a desire to learn, grow, and be challenged. U.S. citizenship is preferred. We are currently seeking engineers at all levels of experience in structural engineering for buildings.

For a detailed advertisement and to submit your resume, visit our website <http://www.catenaengineers.com/opportunities.php>

VLMK ENGINEERING + DESIGN

Structural Engineer
Portland, OR



VLMK Engineering + Design is accepting applications for qualified Structural Engineers 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.

Openings are available for a range of experience levels in several office locations.

If you want to tackle new challenges and expand your abilities with a dynamic and growing company, please see full postings 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.



STRUCTURAL ENGINEERS ASSOCIATION OF OREGON

2023 ANNUAL TRADE SHOW

WHAT: Annual Trade Show to benefit the
SEAO Scholarship Foundation

WHERE: **Monarch Hotel in Clackamas**
(Sunnyside Road exit off I-205)

WHEN: **Tuesday, April 11th, 2023**

5:00 PM - 8:00 PM

Booth set-up: 1:00 PM

Booth break down: 8:00 PM



FORMAT: There are two opportunities for exhibiting goods and/or services.

1. Pre-show seminars. The seminars will last for 1 hour with a 15-minute breakdown and set-up period between seminars. Seminar slots go quickly so register early. Laptop & projector are vendor responsibility to supply. 1 PDH is recommended per seminar.

2. Booth - 10' with 8' table. As before, dinner and drink tickets will be given to attendees as they check in. The exhibitors must initial the tickets before the tickets can be redeemed for a free drink or meal.

CONTACT: Jane Ellsworth

Phone: (503) 753-3075 / E-mail: jane@seao.org

COST:

SEAO MEMBERS *(Select all that apply)*



Mini Seminar

\$235



Booth

\$550

Includes electricity



Late Fee

\$75

Additional after 2/16/2022

NON-MEMBERS *(Select all that apply)*



Mini Seminar

\$310



Booth

\$650

Includes electricity



Late Fee

\$75

Additional after 2/16/2022

Mini Seminar Title *(If checked above):*

DONATIONS:

We will be holding a raffle, and donations to the raffle are greatly appreciated. Vendor donations will be announced for additional name exposure.

Add Raffle
Donation?

YES

☐

Donation Amount:

Company Name:

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Total To Bill:

Pay By Credit Card:
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By checking this box, you authorize the SEAOSF to run the credit card info below for the total amount.

- OR - Pay By Check:
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Make payable to "SEAOSF"

If mailing payment, send to: SEAOSF - 9220 SW Barbur Blvd, #119, PMB #336 - Portland, OR 97219

Name:

As it appears on Credit Card

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Billing Zip Code:



The Engineers Week High School Program is in-person on Tuesday, February 28, 2023.

The event will be held at the DoubleTree by Hilton Hotel / 1000 NW Multnomah Street, Portland, OR 97232.

Event Schedule:

9:30am – 11:30am	Student / teacher / engineer sign-in
9:30am – 11:45am	Exhibit Hall / Career Expo open for all attendees
9:30am – 11:45am	Morning Seminars open for all students
11:45am – 1:30pm	Banquet Lunch: Sponsors + local engineers join students for lunch & keynote:

Jessica Ollero, NASA Flight Controller + Flight Instructor

An Engineer's Lessons Learned from Training Astronauts and Working in Mission Control

1:45pm – 4:30pm	Field trips for all students
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Sponsorship is open now.

Registration + sponsorship links (and more information) available at <https://www.oregonengineersweek.org/sponsorship>

For more information contact eweek.oregon@gmail.com