

Newsletter of the Structural Engineers Association of Oregon

SEAO

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IN THIS ISSUE: PAGE #

2

3

4

5

6

President's MessageJanuary Monthly Meeting Info

- Mass Timber Conference,
 SEAO Trade Show Info, &
 SEA NW Conference Request
- SEAO Winter Seminar, Engineers
 Week Info, and Ask a Question
- NCSEA Webinars, New Members, & AWC Webinars
- SE3 Committee Event 7
 Employment Opportunities 7-8
 Trade Show Flyer 9
 Engineers Week Flyers 10 & 11
- SEAO Upcoming Events Flyer 12



SEAO has a LinkedIn account and can be followed at <u>SEAO</u> <u>LinkedIn Page</u>.

CONNECTIONS

January 2023 Volume 22 Issue 4

Upcoming SEAO Meetings and Events:

Tuesday, January 10, 2023: SEAO Dinner Chapter Meeting Topic: OHSU Knight Cancer Research Building Speaker: Jason Thompson, PE, SE, catena consulting engineers Time: Committee Meetings & Social at 5 pm, Dinner & Program at 5:45 pm Location: Sentinel Hotel, 614 SW 11th Ave, Portland, OR

(Library for Dinner & Board Room for Committee Meetings/Tables) PDH: 1 Hour. Cost: \$45 Member; \$55 Non-Member; \$25 Student & YMF Members See Page 3 for additional information.

Wednesday, January 18, 2023: SEAO Winter Seminar

Topic: Updates Coming in the 2024 I-Codes & ASCE 7-22 Speaker: Seth Thomas, PE, SE, KPFF Consulting Engineers Time: 7:30 am to 4:30 pm Location: Embassy Suites, 9000 SW Washington Square Road, Tigard, OR PDH: 8 Hours & Cost: \$200 See Page 5 for additional information.

Thursday, February 9, 2023: SEAO SE3 Committee Licensure Webinar (Free) Time: 4:30 pm

See Page 7 for more information.

Wednesday, February 15, 2023: SEAO Lunch Chapter Meeting

Topic: Landslides in PDX 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

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 Cost: \$80. For more information see pages 5, 10, and 11.

Tuesday, March 14, 2023: SEAO Lunch Chapter Meeting

Topic: Tacoma Narrows Bridge Forensic Analysis 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

March 27—29, 2023: International Mass Timber Conference

Location: Oregon Convention Center, Portland, OR Hotel rooms are selling fast. Reserve your room as soon as possible. See Page 4 for additional information. For more information and to register, visit: <u>https://masstimberconference.com/</u>

SEE FLYER ON PAGE 12 FOR FUTURE SEAO EVENTS.

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. No. 119 PMB #336 Portland, OR 97219

BOARD OF DIRECTORS

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SEAO Members,



Happy New Year to all our members! It is that time of the year to reflect on the past and what all we have accomplished and make plans and goals for upcoming year.

2022 saw the beginning of the return to normality after a few years of Covid-related unprecedented (hate that word) times. On a positive note, we were able to return to in-person meetings last year and most of us returned to an office setting (at least part of the time).

As I have stated in past newsletters, as a feature of my term, I want to promote the education and knowledge that our own committees have to offer to our members, and my goal was to highlight at least one of the committees each month. Well - please attend the January dinner meeting and come early for social hour and learn about **all** of our committees! We will have tables set up to talk with committee members and find out how to get involved or to ask any question you may have. It is a terrific way to meet fellow members with similar interests and talk with them before our featured speaker/topic.

We do need new committee members (all committees) plus new chairs for the seismic and wind committees (and others). It is time to get engaged/involved, and the January 10th meeting is a great opportunity to start.

This is also the time of the year to renew your SEAO membership if you have not already done so – please do so.

April will be the return of our SEAO trade show on April 11th (save the date). Come for the mini-seminars starting at 1 pm with vendor exhibits to follow (and trivia). This trade show benefits the SEAO Scholarship Foundation so bring money for raffle tickets--or even donate to the raffle or directly to the fund for a tax write-off. The SEAO Scholarship Foundation funds approximately \$13,000 in yearly scholarships, and the lack of a trade show in the last few years has put a dent in the bottom line. The trade show and golf tournament are my two favorite SEAO events that I do not miss.

Looking forward to a great 2023 and seeing everyone at our upcoming SEAO functions.

Peder

SEAO COMMITTEES

CODE ADVISORY COMMITTEE Seismic

NEW CHAIR STARTING JAN. 2023

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 <u>EMERGENCY RESPONSE (SEER)</u> David Tarries David.tarries@portlandoregon.gov

<u>PROGRAM COMMITTEE</u> Monthly Meetings *Norm Faris* norm.faris@valarengineering.com

Awards Brynn Adkins badkins@tmrippey.com

Golf Tournament *Stephen Stenberg* steez07@yahoo.com

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 erice@vlmk.com & Emma Olds eolds15@gmail.com

SE3 Annabel Shephard shep.annabel@gmail.com

CONTINUING EDUCATION <u>COMMITTEE</u> Seminars Andy Stember andy@jasenginc.com

MEMBERSHIP COMMITTEE Newsletter

JoMarie Farrell jomarie@equilibriumllc.com

Roster Jane Ellsworth jane@seao.org

DELEGATES

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

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

JANUARY CHAPTER MEETING TUESDAY, JANUARY 10, 2023, 5:00 pm-7:30 pm

Topic: OHSU Knight Cancer Research Building

Description: The result of a highly collaborative integrated project delivery process with partners OHSU, The Knight Foundation, SRG Partnership, and McCarthy/Andersen, the 320,000 square-foot Knight Cancer Research Building in the South Waterfront was built on time and on budget. Challenged by significant geotechnical constraints and the need to create open and flexible collaborative spaces for the nearly 600 researchers and administrators, Catena's creativity and keen eye towards lasting function and cost-efficiency resulted in several outside-the-box structural solutions. The building includes post-tensioned concrete flat slab construction at lab floors that span 42 feet between columns – double the width of a standard lab module. The use of concrete flat slabs allows for minimal floor-to-floor height and an ability to eliminate dropped ceilings. Care was given to ensure long-term slab performance, mitigation of visible cracking, and sufficient tendon cover for installation of anchors during initial and future tenant improvement. Another creative structural solution allowed for the realization of a 60-ft by 84-ft columnfree auditorium space on Level 1. A standard column transfer girder would have resulted in significant ceiling height impacts and deflection concerns while supporting the six floors above. Catena instead placed a full-story-high concrete transfer girder between Levels 6 and 7, where programming allowed, and suspended the concrete column from Level 2 upward. The \$190 million facility was completed in 2018 and achieved LEED Platinum Certification.

Speaker: Jason Thompson, P.E., S.E., catena consulting engineers Jason has over 25 years in the structural engineering profession, having designed and managed a broad range of new buildings and rehabilitation projects that include those within the commercial office, education, health care, and civic markets. His ability to collaborate with design and construction partners facilitates delivery of design-oriented structural solutions with an eye on constructability. Jason earned his Bachelor of Science in Structural Engineering from the University of California at San Diego and his Master of Science in Structural Engineering from the University of California at Berkeley. Outside of his day-to-day responsibilities as a principal within catena,



Jason can be found cheering on his kids from the sidelines of their soccer matches, going on a hike or snowshoeing on the slopes of Mt. Hood or Mt. St. Helens, or playing with his dog at Grant Park.

Location:	L ocation: Sentinel Hotel, 614 SW 11th Avenue, Portland, OR									
	Board Room for Committee Tables									
	Library for Dinner & Program									
	Parking information: Street Parking or Smart Park Garage at SW 10th & Yamhill.									
Time:	5 pm Committee Meetings & Social Cost: \$45 Prepaid Members									

5:45 pm Dinner & Program \$55 \$25

\$45 Prepaid Members \$55 Prepaid Non-Member \$25 — Students & YMF Members

Reservations: Pre-registration is required for all. **You can register and pay online at** <u>https://www.seao.org/events/jan2023/knight-science-committee-updates</u> before 5 pm, Friday, January 6. 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 <u>jane@seao.org</u>

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

Hotel rooms have sold out at the Eastlund Hotel and the Hyatt Hotel rooms are selling fast and expected to sell out so register soon. For more information, visit: <u>https://masstimberconference.com/</u>

2023 SEAO TRADE SHOW & TRIVIA APRIL 11, 2023

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

SEAO will also be holding a raffle during the trade show to raise money for the SEAOSF (Scholarship Foundation) 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 9 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 CALL FOR ABSTRACTS

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 Technical Program Committee is seeking abstract submittals by practicing engineers, academia, and vendors consistent with the NWC theme, Innovations in Structural Engineering. Presentations will be scheduled for 45 minutes total, including time for Q & A. Presentations may be focused on advanced analysis techniques, case studies, evaluation, and retrofit of existing structures, best design practices, and other topics that focus on unique, forward-thinking, innovative approaches that symbolize our SEAs and the unprecedented growth of our region.

Abstract Requirements: Visit <u>https://www.seaw.org/</u> <u>seanwconference</u> to complete the Abstract Submittal Form, which must be completed and returned by January 10, 2023.

Speakers will be notified of abstract acceptance by February 01, 2023.

Speakers will be provided with required presentation guidelines after acceptance of abstract. Standard AV equipment will be in the room: podium, laptop, wireless microphone, projector, and screen. All speakers receive free registration on the day of their presentation and a \$500 travel/expense allowance.

Upon acceptance of your abstract, the NWC will require: Your slides (an official template will be provided) – to be submitted by **August 1, 2023**.

Questions? Please contact Scott Douglas, SEA NW Conference Technical Program Coordinator sdouglasscott@gmail.com, at 206-920-2715.

The Seattle Chapter of SEAW is excited about the restart of the SEA Northwest Conference, look forward to receiving your abstract, and hope to see you at the conference next September.

SEAO WINTER SEMINAR WEDNESDAY, JANUARY 18, 2023

The SEAO Winter Seminar will be held at the Embassy Suites Washington Square at 9000 SW Washington Square Road in Tigard, Oregon. Check-in will start at 7:30 am with the seminar running from 8 am to 4:30 pm. A total of 8 PDH credit hours will be provided to those attending the all-day seminar. Lunch will be provided at the noon break.

This seminar will cover all of the items coming in ASCE 7-22 which will be adopted by the 2024 IBC. There are significant changes that were made to the seismic, wind, and snow chapters that will have impacts on designs of all building types. Some of these changes include the new multi-period response spectra, non-structural anchorage design force equations, new snow load maps, and ASCE 7 hazard tool (now on-line and free). In addition the seminar will cover changes to the 2024 IBC Chapter 16, including some significant changes to the risk category table. The seminar will also highlight updates to the Wind chapter, including the new Tornado chapter and the completely re-written Flood chapter, which is part of supplement 3 (targeting the 2027 IBC adoption).

Speaker: Seth Thomas, P.E., S.E., works at KPFF Consulting Engineers and is a licensed structural engineer. Seth has been involved in code development his entire career and was a part of the team that developed the first tsunami provisions as part of ASCE 7-16. Seth served as a member of the tsunami, flood, seismic, and main committees for the ASCE 7-22 and a member of the SEAO code committee that assisted the Oregon Building Codes division in the adoption of the 2019 and 2022 OSSC. Seth is a member of the Provisions Update Committee (PUC) and is serving as Issue Team 1 lead for the 2026 NEHRP seismic provisions. He will be vice-chair of the ASCE 7-28 seismic subcommittee. Seth has been involved in multiple tsunami and performancebased seismic design projects including OSU Gladys Valley Marine Studies Building (first tsunami vertical evacuation projects in Oregon), Ocosta Middle School (first tsunami Washington), evacuation project in the Portland International Airport PDXNext Project, Multnomah County Central Courthouse (MCCCH), and the VA Portland Hospital Seismic Retrofit. Seth is also a past president of SEAO.

Visit <u>https://www.seao.org/events/jan2023/updates-</u> <u>coming-2024-i-codes-asce-7-22-and-more</u> for more information and to register.

ENGINEERS WEEK TUESDAY, FEBRUARY 28, 2023 CALL FOR SPONSORS & ENGINEER SIGN-UP

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 <u>http://www.oregonengineersweek.org</u>.

See pages 10 and 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 <u>www.seao.org</u>. Committees include: Seismic, Wind, Snow, Code, Vintage Building, and Special Inspections.

January 17, 2023, 10:00 am Pacific Time (Fee for Webinar) Strength Design of Masonry

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

Strength Design was introduced in the TMS 402 masonry code in 2002. Most masonry design is still allowable stress design, but strength design offers several advantages, including the design being similar to reinforced concrete and the designs using the reinforcement more efficiently than allowable stress design. This webinar will provide an introduction to masonry strength design. Design methods for flexural elements, including lintels and nonbearing walls, will be presented. B earing wall design methods, including the inclusion of second-order effects, will be presented along with design tips. Shear walls design will be covered, including shear design, flexural design, and seismic prescriptive design requirements. The webinar will be based on the 2016 TMS 402 code, but changes that are in the 2022 code will be shown. (1.25 PDH)

January 24, 2023, 10 am Pacific Time (Fee for Webinar) Work Smarter Not Harder—Getting the Most out of Frequently Used Software Applications

Speakers: Sarah Scarborough, SE, PES Structural Engineers, and Mary Shinners, PE, SE, The Haskell Company

Structural engineers use a wide range of software and technology to perform design calculations and produce construction documents. This webinar will cover the multitude of ways structural engineers can leverage frequently used software applications to produce quality designs more efficiently. Come prepared to revolutionize the way you approach design problems using the same tools with which you are already familiar! (1.5 PDH)

February 9, 2023, 10 am Pacific Time (Fee for Webinar) <u>Repair, Defer, or No Action: Leveraging Structure Movement</u> <u>Monitoring for Efficient Capital Planning and Decision Making</u> 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)

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

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: <u>https://woodcouncil.mclms.net/en/</u>. Upcoming free eCourses include:

Thursday, January 19, 2023: 10:55 am—12:30 pm PST Residential Construction: Woodn't You Like to Know "Two" (Course No. DES344)

Residential structures often create the same issues over and over again across the country. Code professionals working with these structures will wind up asking the same questions as they encounter these issues. We've collected some of the most common questions we've been asked over the years and have compiled them into this program. This updated program will examine these questions and discuss best practices and other helpful pointers that will benefit code officials and designers and the construction community. The topics range from residential decks, engineered wood products, common connection issues, and other odd topics or information that doesn't quite fit into other programs.

NEW MEMBERS

Welcome to our new Members:

Matthew Smith—ZCS Engineering & Architecture Demetrio Ortego—Hayden Consulting Engineers Nehemiah Protsman—Kramer Gehlen & Associates Kyle Kadomoto—Peterson Structural Engineers

WELCOME TO SEAO!

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: Password:

226 022 035 174 mngVd5



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.

EMPLOYMENT OPPORTUNITIES (CONT.)

KRAMER GEHLEN & ASSOCIATES

Structural Project Engineer Vancouver, WA



Kramer Gehlen & Associates, Inc. -- a **Structural Engineers** 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 <u>www.kramer-gehlen.com</u>.

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

CATENA 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 our website http:// your resume, visit 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 <u>www.vlmk.com</u> for additional requirements and the benefits of joining VLMK. If you have questions, please contact Trent Nagele at <u>trent@vlmk.com</u>.



STRUCTURAL ENGINEERS ASSOCIATION OF OREGON

- 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 setup 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)			NON-MEMBERS (Select all that apply)						
l	M	lini Seminar 235	Booth \$550	Late Fee \$75 Additional after 2/16/2022		Mini Seminar \$310	Booth \$650	Late Fee \$75 Additional after 2/16/2022		
Mini Seminar Title (If checked above):										
DONATIO	NS:	We will be holding a raffle, and donations to the raffle are greatly appreciated. Vendor donations will be announced for additional name exposure.								
Company Na	ame:									
Contact Name:										
Phone Number:				Email Address:						
Total To Bill:			Pay By Credit MAIL or	t Card: By check EMAIL I the SEA info belo	king this box, OSF to run th w for the tota	you authorize e credit card I amount.	OR - Pay By Chec MAIL ONI	k: Make payable to "SEAOSF"		
If mailing payment, send to: SEAOSF - 9220 SW Barbur Blvd, #119, PMB #336 - Portland, OR 97219										
Na As it appears on Crea	ame: dit Card									
Credit Ca	rd #:									
Credit Card Exp [Date:					3-Digit C On back of Cree	dit Card			
Billing Zip C	ode:]				



Engineers Week 2023 is coming soon, and we are excited to announce this will be a LIVE and In-Person event this year after a virtual format in 2021 and 2022.

To-date, we have received or have committed funds totaling over \$12,000! Thank you so much to our contributing sponsors!

We will hold the event on *February 28, 2023, after National Engineers Week*, the week of February 19-25, 2023. This is a program change from our previous messaging after we discovered a conflicting event. The program will return to pre-Covid format with a morning program, field trips, exhibit hall and engineer hosted banquet. Our tentative guest speaker will be Jessica Ollero, Control Systems Flight Controller + Instructor at NASA who is working on the Artemis Mission.

What do we need from our sponsors and the engineer host community?

As in years past, we will be raising funds to support the program and unlike the last two years that required reduced funds to provide a virtual program our usual in-person program requires considerable assistance to pay for field trip transportation for several hundred students as well as to cover the costs of the banquet. Sponsorships starting this year will also be eligible to fund the Wanda J. Van Duser Memorial scholarship to support historically under-represented groups in earning an engineering or STEM-related degree and joining our ranks in the professions.



In addition to raising funds, we are requesting support from the engineering community to help us provide this experience for the high school students. Do you have a project under construction? How about a cool lab and or current experiments? If you have something you think would be interesting, let us know. We will also have engineering hosts at the banquet.

Please use the link below to register or submit by mail with the attached sponsor form.

http://www.oregonengineersweek.org/sponsorship/sponsor

If you have questions, or would like to discuss how you and or your company can support this year's E-Week program, please contact Jason Kelly at <u>ikelly@dowl.com</u>.

We look forward to your continued participation in this time-honored event in our community!

Many thanks to our 2023 Engineers Week Sponsors







KITTELSON & ASSOCIATES



















January 10th, 2023 Dinner Mtg Knight Science & Committee Updates

February 15, 2023 Lunch Mtg Landslides in PDX

March 14, 2023 Lunch Mtg Tacoma Narrows Bridge Forensic Analysis

April 11, 2023 SEAOSF Tradeshow & Trivia

May 9, 2023 Lunch Mtg Taylor Devices Update

Structural Engineers Association of Oregon

9220 SW Barbur Blvd. #119, PMB#336, Portland, OR 97219 p: 503-753-3075 | e:jane@seao.org | www.seao.org