



Newsletter of the
Structural Engineers
Association of Oregon

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

CONNECTIONS

March 2023 Volume 22 Issue 6

Upcoming SEAO Meetings and Events:

Tuesday, March 14, 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

See Page 3 for information and visit: <https://www.seao.org/events/mar2023/tacoma-narrows-bridge-forensic-analysis> for more information and to register.

Saturday, March 25, 2023: SEAO YMF Oregon Beam Break Event

Time: 1:00 pm

Location: Portland Metro Area, Exact Location Remains to be Determined

Cost: \$20/Team (Up to Five People per Team)

See flyer on Page 12 for more information and to register.

March 27—29, 2023: International Mass Timber Conference

Location: Oregon Convention Center, Portland, OR

See Page 5 for additional information. For more information and to register, visit: <https://masstimberconference.com/>

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

Trade Show Time: 5 pm to 6:30 pm

Dinner & Trivia: 6:30 pm to 8 pm

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

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

Cost: Free to SEAO Attendees

See Pages 4 and 11 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.

September 14— September 15, 2023: SEA NW Conference (SAVE THE DATE)

Location: Hilton Bellevue, 300 112th Avenue SE, Bellevue, WA

See Page 4 for more information.

February 13, 2024: SEAO Structural Engineering Awards Banquet (SAVE THE DATE)

More information will be provided in the April newsletter.

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: *PEDER GOLBERG*

SEAO Members,



February is in the books so spring must be around the corner. Recent snowfall is right on queue (high school spring sports always seem to start with a snow day). Spring also is the time for our Tradeshow which will be back live, in person at the Monarch Hotel on April 11th. It is free to SEAO members so come out to get some PDF credits, meet and greet our vendors and support the scholarship fund. Also - get your trivia teams ready for some grueling competition.

February's lunchtime chapter meeting on Landslides sold out! Dr. Burns of PSU had a very interesting slideshow with some scary photos of someone else's projects . . .

The board is always looking for topics for future meetings, so please, if you have some topic you want to share or want to know more about, please let any of the board members know. We want to start next year's board off with a year full of interesting topics. Our March meeting is on the 14th at Portland City Grill on the topic of newer forensic analysis of the infamous Tacoma Narrows Bridge. Get your seat early for this lunch meeting before it also sells out.

The committee that I want to highlight this month is the Snow Load committee chaired by Andy Stember of JAS Engineering. This group's mission was once to update the snow load analysis for Oregon, and after reviewing Montana's snow load information just last week for a project, Oregon's committee has done a great job leading the way on the presentation of the data. More work is now needed in the near future, however, as the snow loading will be moving to the dark side (LFRD) plus the ASCE 7 Hazard Tool may be taking over some of the data - then maybe climate changes come into play with the historic data needing to be updated. If the revisions to snow analysis is something that you find interesting, reach out to Andy and the snow load committee, as they could be looking for help in the near future.

Last item for this month's message is to remind everyone that it is time to start thinking about elections to the SEAO Board for 2024. Being on the board is a great way to give back and you get a new appreciation of the profession. Offices up for election are Vice President, Secretary, Treasurer and Director.

Peder

BOARD OF DIRECTORS

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SEAO COMMITTEES

CODE ADVISORY COMMITTEE

Seismic
NEW CHAIR STARTING SOON

Wind
OPEN CHAIR

Snow Load
Andy Stember
andy@jasenginc.com

Code
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Vintage Building
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Special Inspections
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Sustainability
Jo Ann Offill
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STRUCTURAL ENGINEERS EMERGENCY RESPONSE (SEER)

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PROGRAM COMMITTEE

Awards
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Golf Tournament
OPEN CHAIR

Conferences
Kevin McCormick
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ADVOCACY COMMITTEE

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seth.thomas@kpff.com

Engineers Week
Michelle Juarez
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Young Member Forum
Eric Esqueda & Emma Olds
YMF.seao@gmail.com

SE3
Annabel Shephard
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CONTINUING EDUCATION COMMITTEE

Seminars
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Newsletter
JoMarie Farrell
jomarie@equilibriumllc.com

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Jane Ellsworth
jane@seao.org

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

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

MARCH CHAPTER MEETING TUESDAY, MARCH 14, 2023, 11:30 AM–1:00 PM

Topic: Tacoma Narrows Bridge Forensic Analysis

Description:

The presentation will be a summary of the original 1941 forensic investigation into the 1940 Tacoma Narrows bridge collapse. The presentation includes:

- Suspension bridge structural principles and load path.
- History of the bridge movement, from design, to construction, to in-service use, through to the day of the collapse.
- Post-collapse structural condition of the bridge.
- Review of original design calculations and the standard of care for design.
- Comparison to other suspension bridges, such as the Golden Gate, and how suspension bridge design evolved.
- Collapse sequence, including videos of the collapse as well as manipulation of a physical model to demonstrate oscillation concepts.
- Dynamic and wind tunnel testing.
- Similar historical suspension bridge failures that pre-dated Tacoma Narrows by up to 100 years.
- Current AASHTO requirements.
- How Tacoma Narrows was rebuilt.

Speaker: Marc Sokol, M.S., P.E. (CA), S.E. (AZ)

Marc Sokol has been a structural engineer for 24 years. His experience includes special structural inspection and structural design of commercial, institutional, and industrial structures with Paragon Structural Design; forensic investigation and expert witness testimony of structural and foundation failures with Rimkus Consulting Group; and currently as a structural system owner for Intel Corporation.



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/mar2023/tacoma-narrows-bridge-forensic-analysis> before end of day, Friday, March 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

2021 IBC CHANGES TO COLD-FORMED STEEL LIGHT FRAME DESIGN

With the State of Oregon formally adopting the 2021 IBC on April 1, 2023, there are several parts of the code that have been modified, including to cold-formed design standards.

Jeff Ellis of Simpson Strong-Tie has put together a blog on their website to discuss the changes over the years.

You can visit their site to review his blog at https://seblog.strongtie.com/2023/01/reviewing-2021-ibc-changes-for-cold-formed-steel-light-frame-design/?utm_source=rss_feed_blog&utm_medium=email&utm_campaign=structural-engineering-blog&utm_content=httpseblogstrongtiecom202301reviewing2021ibcchangesforcoldformedsteellightframedesign

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.

Trade Show: 5 pm to 6:30 pm
Dinner & Trivia: 6:30 pm to 8 pm

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 11 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 will be hosting the conference and is excited about the re-start of the SEA Northwest Conference and hopes to see SEA members at the conference in September.

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

Look for more information in future newsletters as schedule, registration, and hotel reservations open.

Visit: <https://www.seaw.org/2023seanwconference> for more pre-registration information.

NEW SUSTAINABLE DESIGN COMMITTEE

SEA is pleased to announce the formation of the Sustainable Design Committee.

The primary goal of the committee is to promote sustainable design practices within the profession of structural engineering through leadership, advocacy, outreach, and education. The committee will work closely with the NCSEA Sustainable Design Committee as well as other local SEA Member Organizations to share and disseminate educational material related to sustainable design, local and Federal policy, and sustainable initiatives. As the policy landscape continues to evolve, the committee will advocate for the structural engineering community with respect to local policy and will provide resources to engineers related to policy updates and local markets.

The committee is actively seeking new members. Please reach out to Jo Ann Offill (joffill@mcknze.com) for more information.

MEMBER SPOTLIGHT

ANNABEL SHEPHARD

BY: NISARG META



This month's SEAO member spotlight shines on Annabel Shephard. Annabel has an impressive educational background from Oregon State University, including a Bachelor of Science in Civil Engineering and two Master of Science degrees in Civil Engineering as well as Wood Science and Engineering.

Currently working as a Project Engineer at PCS Structural Solutions, Annabel has worked on a diverse range of projects, including single-family and multi-family housing, healthcare, education, commercial, civic, and seismic evaluations. Some of her recent accomplishments include passing the PE exam in April last year, being promoted to Project Engineer, and attending conferences to represent PCS and on behalf of professional committees, including the Mass Timber Conference in 2022, presenting at Greenbuild 2022, and being accepted to speak at Structures Congress in 2023.

Annabel is also an active member of several professional committees, including the SEI Sustainability Committee and the SE 2050 Leadership Group. She is also the Chair of the Oregon Chapter SE3, a committee she co-founded with Alexandra Stroud, to provide non-technical support for peers and address concerns in the industry such as mentorship, work-life balance, career advancement, and advocating for better pay and benefits.

When asked about a challenge she faces, here's what she said: "Achieving a healthy work-life balance. Finding the time to invest in my friends and family while engaging in my work and professional commitments in a meaningful way."

Outside of work, Annabel enjoys reading, cooking, and exploring the Cascades during the summer and winter. Her impressive background and dedication to her profession make her a true asset to the SEAO community.

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. At this time there are over 2,000 attendees from 35 countries registered for this event.

There are many complimentary perks in the exhibit hall, including free beer and wine at the Timberlab booth during the receptions, visiting the Freres Engineered Mass Plywood Lounge, the Baagen Timbers' axe throwing station, and an unlimited coffee and tea service courtesy of Sustainable Forestry Initiative.

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

For more information, visit: <https://masstimberconference.com/>.

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

REGISTER AT: [HTTP://WWW.NCSEA.COM/EDUCATION/WEBINARS/](http://www.ncsea.com/education/webinars/)

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

Structural Engineers, Envelopes, and Energy Codes

Speakers: 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 9, 2023, 10 am Pacific Time (FREE Webinar & PDH)

NCSEA Structural Awards—New Buildings Over \$200 Million: SoFi Stadium

Speaker: Rafael Sabelli, S.E., and Mark Waggoner, P.E., Walter P Moore
SoFi Stadium is the centerpiece of Hollywood Park, a near 300-acre mixed-use development in Inglewood, CA, being built by Los Angeles Rams Owner/Chairman E. Stanley Kroenke. Home to the reigning Super Bowl champion Los Angeles Rams and Los Angeles Chargers, SoFi Stadium also hosted Super Bowl LVI in February 2022 and will host the 2026 FIFA World Cup as well as the Opening and Closing Ceremonies of the 2028 Summer Olympics. SoFi Stadium is one of three venues—including American Airlines Plaza and YouTube Theater—under a single canopy roof. It is the first indoor-outdoor stadium to be constructed. (1 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)

March 16, 2023, 10:00 am Pacific Time (Fee for Webinar)

Structural Failures & Forensic Engineering 2008 Fatal NYC Tower Crane Collapse—A Case Study

Speaker: James Cohen, P.E.,

Following the collapse of an external self-climbing tower crane in New York City, on March 15, 2008, Ove Arup & Partners, PC (Arup) was hired by the New York City Department of Buildings (NYCDOB) to provide engineering and investigative services. The collapse resulted in seven fatalities and multiple injuries, and damage to adjacent buildings. The resulting trials were for both civil and criminal charges. The investigation included safety issues, materials science, code compliance, structural engineering design, and means and methods. The presentation is a synopsis of the event, investigation, and results. (1.5 PDH)

March 21, 2023, 10 am Pacific Time (Fee for Webinar)

NCSEA Code Advisory, Wind Committee Updates

Speakers: Emily Guglielmo, S.E., Martin/Martin Inc., and John O'Brien, P.E., S.E., PES Structural Engineers

The NCSEA Code Advisory Committee surveys practicing structural engineers every 6 years to generate a pulse on the profession with respect to codes and standards. The results of the 2022 survey will be used to inform code change proposals for ASCE 7-28 provisions, advocate at IBC code hearings, and develop instructional tools for practicing engineers. This session will present an overview of the results of the survey, with additional opportunity for attendees to provide input. (1.25 PDH)

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

Ethics Case Study: Citicorp Center

Speaker: Karen Erger, Director of Practice Risk Management for Lockton

Completed in 1977, Citicorp Center stands not only as a striking element of the Manhattan skyline, but also as a real-life example of design professional ethics in action. In this case study of the post-construction discovery and remedy of structural deficiencies in Citicorp Center's design, participants will explore the ethical choices made by the design professionals involved, with specific references to applicable Code(s) of Ethics. Emphasis will be given to ethical aspects of this case, including the design professional's duty to hold paramount the safety and welfare of the public. (1.25 PDH)

April 13, 2023, 10 am Pacific Time (FREE Webinar & PDH)

NCSEA Structural Awards—Other Structures: SFU Stadium

Speaker: Chris Mills, Fast + Epp

SFU Stadium strives to advance the use of mass timber in stadia type construction with the crowning piece being a 10,000 sq. ft. CLT canopy. The talk will cover the process of the award-winning SFU Stadium project from concept to construction. Chris will take a deep dive in to the key technical challenges the team had to overcome to achieve the project team's vision of a seamless floating plane of CLT. Key topics Chris will cover include the structural detailing, procurement and dynamic performance of the as-built construction. (1 PDH)

April 20, 2023, 10 am Pacific Time (Fee for Webinar)

The Hidden Cost of "Copy & Paste" Engineering

Speaker: Jason McCool, P.E., Robbins Engineering Consultants

There are many commonalities in design that can be efficiently copied from one project to another to save time and improve output, but we invite trouble into our projects when copying and pasting takes the place of appropriately thorough, intentional design. This webinar will review several shortcomings of structural contract documents repeatedly observed over the course of the author's years doing delegated design for steel fabricators. A common factor behind each of them was "copy and paste engineering," the unexamined reuse of items from previous documents in new drawings or specifications where they introduce errors, contradictions, or simply ambiguity. (1.5 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 SEER UPDATE

BY: DAVID TARRIES

The OrSAP program ([Oregon State Police : Oregon Safety Assessment Program : Office of the State Fire Marshal : State of Oregon](#)) continues to develop in Salem. They have created ID cards for evaluators and should be reaching out to current Cal OES SAP evaluators to see if they are interested in being part of the OrSAP system. It is not yet known if there will be a later requirement to take a short state-specific OrSAP training for those people in the future or if being added to the roster based on only Cal OES SAP will be tenured into the system when there is official training. There is now a link on the OrSAP website to apply for OrSAP but at this time that link is intended for those that have been contacted by OrSAP or took OrSAP training. As there is still no official training program, some local Cal OES SAP trainers have added additional state-specific slides to the Cal OES SAP training and coordinated this with OrSAP. This training has been completed twice within a jurisdiction but has yet to be put on for members of the public.

SEER will be putting on one of these Cal OES SAP/OrSAP training sessions in the second half of the year in conjunction with ASCE SEI Oregon Chapter. It is anticipated the training could take as long as 8 hours but hopefully can be streamlined a bit. More information on the opportunity will be included in the newsletter when it is available. Anyone interested can email seer@seao.org to get on a list for future training opportunities.

There may also be an opportunity to take ATC 20 training with Ed Huston this spring/summer provided the Regional Disaster Preparedness Organization ([Regional Disaster Preparedness Organization \(rdpo.net\)](#)) opens it up to private individuals. It is hoped that will happen and when it does more information will be provided in the newsletter. There could also be an OrSAP specific module offered in conjunction with the ATC 20 training that would allow attendees to be added to the OrSAP system. Again, more information will be provided as the situation develops. Email seer@seao.org for more information.

Finally, there may be an opportunity for ATC-20 trained engineers and architects to volunteer in Turkey. The Non-Government Organization All Hands and Hearts

([All Hands and Hearts | Volunteer-Powered Disaster Relief](#)) has reached out to SEAW for qualified volunteers and SEAW reached out to SEAO SEER for additional evaluators. There is a reconnaissance team on the ground for All Hands right now trying to set up a base of operations in an area near Kahranmaras, Turkey. Assuming they get everything set up they will return in a week or so (early to mid-March) and coordinate with a list of possible volunteers collected by SEAW. This would be a volunteer basis and travel to Turkey would need to be paid for by the volunteer or a sponsoring company. Deployment would be somewhere between March 20th and mid to late May. It is assumed All Hands intends to deploy 4 to 10 teams of 2 along with an interpreter while the base is in operation. Evaluators would provide their available times for deployment coordination. At this time anyone interested should email seer@seao.org to get on a list with SEAW and or get more specific information about this opportunity. All Hands will be contacting and coordinating with volunteers directly as needed to fill their needs.

NEW MEMBERS

Welcome to our new Members:

Ryan Kelly – David Evans & Associates
Sean Kloos—Pacific Structural Solutions, LLC
Eric Esqueda—VLMK Engineering + Design
Sean Hinchcliffe—PCS Structural Solutions
Brad Taylor—PCS Structural Solutions
Sarah Elder—James G Pierson, Inc.
Deke Black—IMEG Corp
Eric Heidebrecht—Morrison-Maierle
Nick Luckman— KPFF

WELCOME TO SEAO!

FEBRUARY CHAPTER MEETING NOTES

By: DAVID TARRIES

February's Chapter meeting featured a presentation by Scott Burns, Geology Professor at Portland State University. It was a fascinating presentation on landslides in Oregon and a reminder that landslides are regularly occurring on our hilly landscape. It was a reminder of how nature and man impact the stability of the ground we endeavor to build on. The meeting was sold-out and we appreciate the return to being able to visit with one another at our SEAO Chapter meetings. See Page 3 for information on the March Chapter meeting and how to register to attend.



NCSEA AWARDS JUDGING OPPORTUNITY

SEAO has been asked by NCSEA to provide the judging for this year's NCSEA awards. SEAO need to provide 15 to 20 judges and are looking for volunteers.

Proposed Time Frame

Start reading submissions and scoring projects on June 19 and meet in person for final discussions the week of June 26-30, 2023.

Judging Process

NCSEA typically get about 100 projects and a group of NCSEA Past Presidents narrows down the list to approximately 60% of the list. There are eight categories and five areas for the judging criteria

scoring. We split up the judging so no one has to read/score more than about 20 projects. It is an online judging system. It typically takes between 4 to 6 hours to do the reading/scoring and we meet for approximately 4 hours.

If you are interested, please reach out to Peder Golberg at ped-er@jgpierson.com.

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.

CITY OF GRESHAM

Structural Engineer
Gresham, OR

The City of Gresham is seeking a qualified Structural Engineer to join our Building Development Division within the Community and Economic Development Department. This position plays a prominent role in promoting the City's organizational value of public service through continuous interaction with the public concerning complex structural plan review activities for the construction, alteration, or repair of residential, commercial, and industrial buildings.

Salary: \$86,407 - \$112,335/annually

Minimum Qualifications:

- A Bachelor's degree or the equivalent experience in Civil Engineering
- Three to six years of increasingly responsible structural engineering experience
- Must have a current and valid driver's license.
- Must have a good driving record according to our driving matrix (see link below to review matrix online)
- Oregon Professional Engineering license (PE) with demonstrated experience designing concrete, timber, masonry and steel structures.

Apply online at: <https://GreshamOregon.gov/jobs>

OTAK

Senior Bridge Structural Engineer
Vancouver, WA
or Salem, OR



Otak is hiring for a Senior Bridge/Structural Engineer to join our growing team! Come lead our Business Development efforts for Bridges and Structures in Oregon. The successful candidate will have a diverse background with strong design and management experience. We are a multi-discipline AE firm — well rounded, focused on project delivery and employee professional growth. Please reach out to us; we would enjoy the opportunity to speak with you!

This position may be based out of our Vancouver, WA or Salem, OR office.

To apply, please visit:

Vancouver, WA: <https://otakinc.hrmdirect.com/employment/job-opening.php?req=2297227&&&...>
Salem, OR: <https://otakinc.hrmdirect.com/employment/job-opening.php?req=2266768&&&...>

Send resumes to: Craig.meunier@otak.com.

EMPLOYMENT OPPORTUNITIES (CONT.)

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>

MILLER CONSULTING ENGINEERS

Associate Engineer
Portland, OR



Miller Consulting Engineers (MCE) is a structural engineering firm seeking an experienced Engineer to join our team in SW Portland. MCE's collaborative team of professionals includes a wide range of experience levels – from recent college graduates to seasoned engineers.

We believe that teamwork and company culture are critical aspects for the success of our firm. We work with a variety of clients on diverse projects using a wide range of materials.

MCE offers continuing education, training and comprehensive benefits:

- Competitive salary, 401K, vacation, sick
- Flexible working hours, some remote work allowed
- Paid medical, dental, vision, life, & disability

Qualifications:

- Bachelor's Degree in Civil Engineering
- PE license with 4+ years of experience

Please visit our website at www.miller-se.com and submit your cover letter and resume in the Careers section.



STRUCTURAL ENGINEERS ASSOCIATION OF OREGON

2023 ANNUAL TRADE SHOW

WHAT: Annual Trade Show to benefit the SEAOSF 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:

SEAOSF 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:

Contact Name:

Phone Number:

Email Address:

Total To Bill:

Pay By Credit Card:
MAIL or EMAIL

☐

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

- OR - Pay By Check:
MAIL ONLY

☐

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

Credit Card #:

Credit Card Exp Date:

3-Digit Code:

On back of Credit Card

Billing Zip Code:

OREGON BEAM BREAK



PORTLAND, OREGON
SATURDAY MARCH 25, 1:00PM PST



REGISTRATION NOW OPEN

Come break a 2x4 with the SEA Oregon Young Members Forum and compete to see which team can best push lumber to its limits!

RULES

Teams of up to (5) specify loading and hole drilling patterns for a flat 2x4 span

Points are awarded for adding more weight/holes

Larger weight increments/hole diameters earn more points

Join us in Portland or attend virtually to watch and compete live!

Register your team at tinyurl.com/seaobeambreak

Just want to watch?

Spectators register at tinyurl.com/watchbeambreak

Teams registered by March 17th will receive their competition booklet, including:

- Lumber material specification for 2x4
- Load/hole pattern submission form
- Scoring rubric for weights/holes



\$20 registration fee per team

Each chapter may register multiple teams

Questions? Reach out to YMF.SEO@gmail.com