

Newsletter of the Structural Engineers Association of Oregon

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# Linked in

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

# CONNECTIONS

March 2025 Volume 24 Issue 4

Upcoming SEAO Meetings and Events:

#### Tuesday, March 11, 2025: SEAO Chapter Lunch Meeting

Location: The Old Spaghetti Factory, 715 S Bancroft Street, Portland, OR 97239 Time: 11:30 pm—Lunch, Noon — Program Topic: Embodied Carbon and the Role of the Structural Engineer PDH Credit: 1 PDH See Page 3 for more information and how to register.

#### Tuesday, March 25—Thursday March 27, 2025: International Mass Timber Conference

Location: Oregon Convention Center, Portland, OR Registration is Now Open for Early Bird Pricing through February 19, 2025. Visit: <u>https://masstimberconference.com/register/</u> to register. Visit: <u>https://masstimberconference.com/</u> for event information

### Wednesday, July 9, 2024: SEAO/OACI Golf Tournament

Location: Langdon Farms Golf Club, 24377 Airport Road NE, Aurora, OR Shotgun Start: 1:30 pm; Social Hour 6 pm; Dinner & Awards 6:30—7:30 pm See pages 8 and 9 for registration and sponsorship information.

# Thursday, September 25 - Friday, September 26, 2025: SAVE THE DATE 2025 SEA NW Conference E

Location: DoubleTree by Hilton Hotel Spokane City Center, 322 N Spokane Falls Court, Spokane, WA See Page 4 for more information

See Page 4 for more information.

# Tuesday, October 14 - Friday, October 17, 2025: SAVE THE DATE NCSEA 2025 Structural Engineering Summit

Location: New York Hilton Midtown, 1335 6th Avenue, New York, NY Look for information and registration information in future newsletters. See Page 5 for Call for Speakers information. 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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# BOARD OF DIRECTORS 2023/2024

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#### PRESIDENT'S MARCH MESSAGE BY: CHRISTOPHER CARROLL, PE

Dear SEAO Members:

I hope this message finds you well. As we continue to advance our profession and strengthen our community, I am pleased to share some exciting updates and opportunities with you.



I am excited to announce a special Lunch-and-Learn session on "Embodied Carbon and the Role of the Structural

Engineer", which will take place on March 11, 2025, at The Old Spaghetti Factory. This event will provide valuable insights into sustainable engineering practices and the critical role structural engineers play in reducing embodied carbon in construction.

In addition, we are actively seeking participants to join our Programs Committee. Members of this committee will be involved in the planning and organizing of our lunch-and-learn events. Joining the Programs Committee offers several benefits, including the opportunity to enhance your leadership and organizational skills, connect with fellow engineers and industry leaders, and play a key role in shaping our professional development programs.

We are also looking for volunteers to help support our website. Your participation would be greatly appreciated as we strive to keep our online presence informative and up-to-date. This is a great opportunity to contribute to our community and ensure that our digital resources remain valuable and accessible to all members.

As always, thank you for your dedication and contributions. Together, we are building a stronger community. For suggestions or involvement, please reach out.

Thank you, Christopher M Carroll 2024/2025 SEAO President

#### **SEAO COMMITTEES**

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

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Sustainability *Jo Ann Offill* joffill@mcknze.com

SE3 *William Locke* william.locke@coffman.com

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*Amit Kumar* Amit.kumar@portlandoregon.gov

#### MARCH CHAPTER LUNCH MEETING TUESDAY, MARCH 11, 2025 11:30 AM-1 PM

#### Topic: Embodied Carbon and the Role of the Structural Engineer

The SEAO Sustainable Design Committee will lead a discussion on embodied carbon in structural systems and the structural engineer's role in minimizing impacts on the built environment. The presentation will explore current research and key findings that highlight the significance of embodied carbon in a building's total carbon impact, emphasizing the need for engineers to take an active role in reducing carbon in their projects. Various strategies for reducing embodied carbon will be explored at both the material level and whole-building levels, with an emphasis on the critical impact of early design decisions. A case study comparing mass timber construction to functionally equivalent steel and concrete buildings is used to demonstrate the impact of various structural systems on carbon emissions.

# Speakers:

#### Jo Ann Offill, Structural Designer at Mackenzie



Jo Ann has over 9 years of experience in the industry. She currently works as a structural designer at Mackenzie where she leads the department's sustainability efforts, including its commitment to the SE 2050 Program. She serves as chair of the SEAO Sustainable Design Committee and is an active member of the Sustainable Design Committee for the NCSEA.

#### Matthew Pearson, Structural Designer at KPFF Consulting Engineers

Matthew Pearson has worked with KPFF since 2021 as a structural designer and actively contributes to the company's mission to fulfill the SE 2050 commitment. He also currently serves on the SEAO Sustainable Design Committee. Above all, Matthew values accountability and empathy, and recognizes how both are integral in pushing our industry forward to be more carbon conscious.



**Location:** Old Spaghetti Factory, 715 S Bancroft Street, Portland, OR 97239 Parking information: Free Parking Lot with Validation Provided During Meeting

Time: 11:30 am to Noon—Check-in a	& Lunch
Noon to 1 pm— Program	

Cost: \$35—Prepaid Members \$45—Prepaid Non-Members \$20—Student Members

**Reservations:** Pre-registration is required for all. **You can register and pay online at:** <u>https://www.seao.org/events/mar2025/embodied-carbon-and-role-structural-</u> <u>engineer</u> before end of day, Friday, March 7. You can also register with Jane Ellsworth via phone at (503)753-3075 or via email: <u>jane@seao.org</u>. Note: No-shows will be billed. It is expected that this event will sell out so **register early**.

**PDH Credit:** One PDH will be recommended for this program. **Questions:** Contact Jane Ellsworth at <u>jane@seao.org</u>.

#### 2025 SEA NW CONFERENCE SEPTEMBER 25-26, 2025 SAVE THE DATE

The annual 2025 SEA Northwest Conference will be held September 25-26, 2025 at the DoubleTree by Hilton Hotel City Center in Spokane, Washington. The conference will be hosted by the Spokane Chapter of the Structural Engineers Association of Washington.

More details are to come in future newsletters, including exhibitor/sponsorship opportunities, registration, and more.

Limited early pricing is available. To register early, please visit (<u>https://www.seaw.org/sea-nw-conference-</u>2025 for more information.

### NCSEES SEEKING LICENSED STRUCTURAL ENGINEERS

NCEES is seeking licensed structural engineers to participate in a professional activities and knowledge study, or PAKS, for the PE Structural exam. The results of this online survey will be used to update the content of the exam, a process that occurs every six to eight years.

NCEES requires a cross section of licensed professional engineers practicing structural engineering—including those working in industry, consulting, the public sector, and academia—to complete the survey. If you are a licensed professional engineer, we would appreciate your input. The survey can be completed in about 50 to 60 minutes.

Click here for access to the online survey: <u>ncees.org/</u> <u>STRPAKS</u>. The survey will be open until **March 10, 2025**.

NCEES sincerely thanks members who participate for their contribution to ensure that the PE Structural exam is reflective of the current practice of P.E.s. For more information, contact NCEES Exam Development Engineer Sonya Dawson, P.E., at <u>sdawson@ncees.org</u>.

#### SEER UPDATE BY: DAVID TARRIES, P.E., S.E.

SEER has continued to work with OrSAP to develop the program. OrSAP has a new deputy fire marshal in charge this spring, so SEER is working at getting the new leadership up to speed. There have also been a few Oregon legislature house bills passed around that are related to OrSAP and the disaster response community that SEER has been watching. Work continues and progress is slowly being made. There are a couple of SEER members that meet with OrSAP on an approximately guarterly schedule. If there are engineers (or architects) that are interested in being a part of this and helping to shape the program, please email David Tarries at david.tarries@portlandoregon.gov or at seer@seao.org.

If anyone is interested in becoming a trainer for Or-SAP, please email David Tarries for updates on what OrSAP determines this year on creating a list of qualified trainers.

Please also email David Tarries if you are interested in attending an OrSAP training. OrSAP is working on proving a training or two each year and there may be an SEAO training offered again in the fall. Anyone interested will be put on a contact list to be alerted when trainings are announced.

### ADVERTISING SPACE AVAILABLE

SEAO is pleased to provide full page advertising to members for \$500 and to non-members for \$600. That is the price to run the ad the entire year from September to August. If you'd like to advertise, please contact Jane at jane@seao.org.

#### NCSEA 2025 STRUCTURAL ENGINEERING SUMMIT CALL FOR SPEAKERS ENDS SUNDAY, APRIL 6, 2025, 10 PM

The <u>National Council of Structural Engineering Associations</u> (NCSEA) is seeking speakers for the 2025 Structural Engineering Summit, scheduled for October 14-17, 2025 in New York City, New York, at the Hilton Midtown.

Education sessions deliver pertinent and useful information that is specific to the practicing structural engineer, in both technical and non-technical tracks. Potential submission topics include (but aren't limited to):

- Structural Materials (Concrete, Masonry, Steel, and Wood)
- Best-design practices
- New codes and standards
- Recent project case studies
- Advanced analysis techniques
- Management and business practices
- Ethics
- Diversity and inclusion
- Resilience
- Sustainability
- Technology updates (AI, new platforms, etc.)

Presentations are sought for topics that would appeal to seasoned engineers or younger engineers new to their careers (or both). The goal of Summit presentations is to provide structural engineers with tools, techniques and tips that will help them and their firms operate more efficiently and effectively.

Submissions will be reviewed by the Education Committee, and speakers will be notified if they have been accepted by early June. Speakers will be provided with required speaking guidelines after acceptance of their submission.

**NOTE**: NCSEA does not pay for any meeting-related costs for accepted presenters including hotel travel or registration fees. If you are chosen to be a presenter, *you are required to register and pay to attend the conference.* NCSEA does provide a reduced registration fee for selected speakers.

#### DEADLINES

NCSEA reserves the right to change and revise the following deadlines. All deadlines are in effect at 11:59 PM (central) on the day it is posted.

- Speaker Submission Deadline: Sunday, April 6, 2025
- Selected/Non-Selected Notifications Sent: June 2025

Questions about the abstract process or the Summit? Contact Amelia Moony, Education Manager, at <u>amoony@ncsea.com</u>.

### 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 <u>jane@seao.org</u>, 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.

#### March 11, 2025, 10 am—11:30 am Pacific Time (Fee for Webinar/ Not Included in Webinar Subscription Package) <u>Components and Cladding (C&C)</u>

Speaker: John O-Brien, P.E., S.E., Associate & Director of Engineering at PES Structural Engineers

This session provides a deep dive into Components and Cladding (C&C) wind loads, distinguishing them from MWFRS loads and explaining their significance in building performance. Attendees will learn calculation methodologies for C&C loads and explore design considerations such as corner and edge zones, parapets, and effective wind areas. Using SEAOC Wind Design Manual examples, the session will demonstrate best practices for designing cladding, roofing, and façade elements to withstand wind loads. (1.5 PDH)

#### March 13, 2025, 10 am to 11 am Pacific Time (FREE) 2025 SEE Awards Webinar Series

#### New Buildings Over \$200 Million: Perelman Performing Arts Center

Speaker: Ron Klemencic, P.E., S.E., MKA's Chairman & CEO

Pushing the envelope for new possibilities in multiform performance spaces, this nine-story performing arts venue in Lower Manhattan's World Trade Center site offers three seamlessly interchangeable theater spaces and dedicated areas for rehearsals, back -of-house operations, and public amenities. From small black-box venues of fewer than 100 people to one theater large enough for 1,200 people, the facility operates as a "machine" with massive guillotine doors allowing multiple configurations. Built above subway tracks and loading docks below grade, the venue acoustically isolates the three theaters from each other, the primary building structure, and the envelope, with the interior boxes sitting on rubber-and-steel bearing pads to prevent noise and vibration. Existing below grade constraints also forced the structure to span between only seven limited capacity "super column" support points. This presentation covers MKA's solutions to these challenges as well as the history and vision of this iconic new building. (1 PDH)

#### March 18, 2025, 10 am—11:30 am Pacific Time (Fee for Webinar/ Free to Webinar Subscribers)

#### NCSEA-SEAOC Wind Design Webinar Series Day 4: Non-Building Structures

Speaker: Jordan Jarrett, Ph.D., P.E., Teaching Assistant Professor in the Civil & Environmental Engineering Dept at Colorado State University

The wind provisions in ASCE 7-22 cover numerous non-building structures, and this presentation will overview these current requirements and highlight changes in ASCE 7-22 compared to earlier versions. The non-building structures that will be discussed include freestanding walls and signs, rooftop structures and equipment, silos and tanks, rooftop solar panel systems, parapets, canopies, and more! The presentation will also provide background on the development of these code provisions and the intent of the code to aid engineers in the implementation of these provisions, particularly for structures that are not directly addressed. (1.5 PDH)

# March 20, 2025, 10 am—11 pm Pacific Time (Fee for Webinar/Not Included in Webinar Subscription Package)

#### <u>Unlock the Power of AI/ML in Structural Engineering—A Hands-on</u> <u>Tutorial</u>

# Speakers: Ayush Singhania, P.E., AI Software Engineer and Sheng Zheng, P.E., Martin/Martin Consulting Engineers

Join a structural engineer and a software engineer who actively integrate AI/ML into day-to-day structural engineering work for a hands-on webinar designed to make artificial intelligence accessible to engineers of all skill levels. Whether you're new to AI or looking to enhance your technical expertise, this session will guide you through:

- **Al/ML 101:** A beginner-friendly introduction to artificial intelligence and machine learning.
- Setting Up Your System: Learn how to configure your computer to run large AI models (LLMs, LVMs) and explore the pros and cons of using on-prem versus cloud services like Microsoft Azure, GCP, AWS.
- **Running Al Models:** Step-by-step guidance on deploying language and image-based AI models locally.
- Training ML Models for Structural Engineering: Discover how to build and fine-tune machine learning models for industry-specific tasks.

No prior AI or coding experience is required—just curiosity and a willingness to explore! This session will be helpful for structural engineers who want to understand the details of running an AI model, and will help beginner coders get a jump start with practical tips for tackling real tasks.. (1 PDH)

#### March 25, 2025, 10 am—11:30 am Pacific Time (Fee for Webinar/ Free to Webinar Subscribers)

#### NCSEA-SEAOC Wind Design Webinar Series Day 5: Beyond the Code Speakers: Dr. Roy Denoon and Gregory Kopp, Ph.D., Professor of

Civil & Environmental Engineering at Western University

This concluding session explores advanced and emerging topics in wind design, including performance-based wind design (PBD), wind tunnel studies, computational fluid dynamics, and digital tools. Attendees will gain insights into designing for irregular structures, an area that has historically lacked guidance, and will learn about recent research findings. The session will also discuss the integration of AI, computational fluid dynamics (CFD), and digital tools into wind design workflows. Updates on wind tunnel testing will be provided. This session will conclude with an interactive panel discussion featuring leading experts in the field. (1.5 PDH)

There are also recorded webinars that can be purchased for professional development hours (PDHs) online at <a href="https://www.ncsea.com/education-events/calendar/">https://www.ncsea.com/education-events/calendar/</a>

#### MACKENZIE Structural Engineer Portland, OR

Mackenzie has an opening for an EIT (Master's preferred) in the structural engineering department in our Portland office. This full-time position is available to qualified applicants who have graduated from an accredited program in civil engineering or architectural engineering with interest in designing buildings in a collaborative multi-discipline environment.

The position is open immediately and all resumes from qualified candidates will be considered. Mackenzie offers competitive wages and benefits. See website for additional information.

At Mackenzie, we work a hybrid model that combines both work-from-home and in-office work schedules.

We are an Equal Opportunity Employer.

Apply via: Structural EIT

Send questions to: <u>HR@mcknze.com</u>

Visit Mackenzie's Website at: <u>Mackenzie | Architec-</u> ture, Engineering, Design, Planning

#### <u>GREEN MOUNTAIN STRUCTURAL ENGINEERING</u> Structural Engineering Manager Vancouver, WA

Green Mountain Structural Engineering is a small firm that specializes in providing structural engineering services for residential builders. Located in East Vancouver, Washington, we work with many quality home builders and designers in the region. Green Mountain has deep relationships with the building community and is passionate about providing efficient and common-sense solutions. We work in many jurisdictions across Washington and Oregon.

We are looking for a structural engineering manager. The main responsibilities include working with our team to manage projects through completion of construction documents. This includes performing or overseeing gravity and lateral analysis of residential wood-framed structures and creation of structural plans for permitting. Other important aspects of the job include collaborating with home builders, designers, and architects as well as dealing with plan reviews and construction issues.

A bachelor's degree in Civil Engineering is required with an emphasis in structural engineering. PE licensed in Washington and/or Oregon is required. Six years minimum post -graduate structural engineering experience in low to mid rise structures is preferred. The ideal candidate should be proficient in wood design as well as concrete and steel. A working knowledge of AutoCAD, structural analysis software and Bluebeam is also required. Strong technical writing skills for creating clear documents and reports is also required.

This position can provide future ownership opportunities. We are looking for candidates that can lead this successful company into the future while retaining our long-standing relationships with a great group of home building clients. If you are passionate about the home building industry and eager to contribute to the American Dream, we encourage you to apply.

The position is full-time, with a flexible Friday option. Green Mountain offers competitive wages with paid vacation, holidays, insurance, and 401K.

To apply, please send resume to: info@greenmountainse.com



## H Farms Golf landon SHOTGUN

# WHEN:

DATE:	Wednesday, Ju	Jly 9 <sup>th,</sup> 2025
SHOTG	GUN START:	1:30PM
Socia	L HOUR:	6:00PM
DINNE	r & AWARDS:	6:30-7:30PM

# NHERE:

Langdon Farms Golf Club 24377 Airport Rd NE Aurora, OR 97002 Phone: (503) 678-4653

# TOURNAMENT:

4-Player Team Scrambles

A catered dinner will be served after the tournament on-site.

# **EVENT DETAILS:**

For 2025, OACI and SEAO will be returning once again to the premier Portland area golf club, Langdon Farms!

Langdon Farms Golf Club remains, as stated at the entrance, "Public Only." For several

#### Appropriate "Country Club"attire is required:

- → Collared Shirts
- $\rightarrow$  No Denim
- → Shorts must have a 6" inseam
- → Soft spikes only

years, the course hosted the local US Open qualifier where the lowest all-time score was 67, 4 under par. In 1995, noted architects Bob Cupp and John Fought designed Langdon Farms with dynamic mounding, strategic bunkering, and well-placed water features that make their links-style golf course stand out. The 18hole "Langdon Farm" course features 6,935 yards of golf from the longest tees for a par of 71. The course rating is 73.3, and it has a slope rating of 125 on Blue grass.

## CONTACT:

Jane Ellsworth

ph: (503) 753-3075 em: jane@seao.org

## REHEALKUT

**RETURN THIS ENTRY FORM BY JULY 7th TO:** SFAO PO BOX 2958 Vancouver, WA 98668

# \*\*\*\* NO REFUNDS FOR CANCELLATIONS AFTER JUNE 25<sup>h</sup> \*\*\*\*

(Player Fee includes 2 raffle tickets, 2 drink tickets, green fee, golf cart, driving range, dinner, and Team items\*) \*Included with every team registration: 4 (four) Mulligans total (1 per player) and 1 (one) Five-Foot String, per Team.

TEAM:	Player Names	Membership	Fee	Payment Enclosed
		□seao □oaci	<b>\$250</b>	\$
		□seao □oaci	\$250	\$
		□seao □oaci	\$250	\$
		□seao □oaci	\$250	\$
Pay By MAIL:	Check Included	TOTAL:	\$	
Name: As it appears on Credit Card		Contact Phone #:		
Credit Card #:				
Credit Card Exp Date:	3-Digit Code: On back of Credit Card	Billing Zip Code:		

# **JULY 9<sup>TH</sup>, 2025** Langdon Farms Golf Club 1:30 PM Shotgun Start!

# **SPONSORSHIP FORM**

TOURNAMEN

Ηſ

Company Name:		
Contact Name:		
Phone:	Fax:	
Email:		
<b>HOLE SPONSORSHIP</b>	(choose any or all of the following)	
Comes with individual tee signage and recognition at the on-site dinner.	PAR-3 SPONSORSHIP - \$750 Set your company up near the tee at one of 4 available, 3-par holes and also receive recognition at the on-site dinner. (Only available to 4 sponsers)	
ADDITIONAL SPONSORSHIPS	(choose any or all of the following)	
LD/KP/Long Putt Hole Sponsor \$150	Tee Off Sponsor Golf Cart Sponsor \$300 \$500	
On Course Drink Refreshment Sp \$500	19th Hole Sponsor	1
(Host drink cart for one beverage per participant to be redeemed during pl		

### **TEAM REGISTRATION**

### SPONSORS WILL HAVE UNTIL MAR. 1st, 2025 TO GUARANTEE TEAM REGISTRATION

(Player Fee includes 2 raffle tickets, 2 drink tickets, green fee, golf cart, driving range, dinner, and Team items\*)

TEAM:	Player Names	Membe	rship	Fee	Payment Enclosed
				\$250	\$
				\$250	\$
				\$250	\$
				<b>\$250</b>	\$
	rery team registration: 4 (four) Mulligans toto ) and 1 (one) Five-Foot String, per Team.	11	PLAYER/TEAM SUB-TOTAL:	\$	
Pay By MAIL:	Check Included		TOTAL:	\$	
Name: As it appears on Credit Card			Contact Phone #:		
Credit Card #:					
Credit Card Exp Date:	3-Digit Code: On back of Credit Card		Billing Zip Code:		
Please Return This Form A.S.A.P. to: SEAO, PO BOX 2958, Vancouver, WA 98668					