



CONNECTIONS

March 2024 Volume 23 Issue 6

Newsletter of the
Structural Engineers
Association of Oregon

SEAO
9220 SW Barbur Blvd.
No. 119
PMB #336
Portland, OR 97219
Phone: (503) 753-3075
E-Mail: jane@seao.org
Website: www.seao.org

IN THIS ISSUE: PAGE

■ President's Message	2
■ March Chapter Meeting Info	3
■ SEAOC Awards Update, Ask A ?, & Past President Correction	4
■ 2024 SEAOC/SEA NW Conference, Mass Timber Conference	5
■ Seattle URM Project Webinar, SEAOSF Trade Show & Ad Space	6
■ YMF & SEER Updates	7
■ NCSEA Webinars	8
■ Employment Opportunities	9
■ Web Steel Buildings Northwest Flyer	10
■ Golf Tournament Flyers	11-12



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

Upcoming SEAOC Meetings and Events:

Tuesday, March 12, 2024: SEAOC Chapter Lunch Meeting

Topic: Hyatt Regency Hotel Walkway Collapse

Speaker: Marc Sokol, MS, PE, SE

Location: Old Spaghetti Factory, 715 S Bancroft Street, Portland, OR

Time: 11:30 am Check-in/Lunch; Noon-1 pm Program

Cost: \$35 Members; \$45 Non-Members; \$20 Students

PDH Credit: 1

See Page 3 for additional information and links to register.

Thursday, March 21, 2024: Seattle Unreinforced Masonry Project Virtual Webinar

Topic: Seattle's Voluntary Seismic Retrofit Ordinance and Technical Standard

Speaker: Amanda Hertzfeld, Seattle URM Project

Location: Virtual

Time: 12:00 pm—1:00 pm

Cost: FREE; PDH Credit: 1

See Page 6 for additional information and links to register.

Tuesday, March 26—Thursday March 28, 2024: International Mass Timber Conference

Location: Oregon Convention Center, Portland, OR

See Page 5 for additional information.

Tuesday, April 9, 2024: SEAOC Trivia Night (SAVE THE DATE)

Tuesday, May 14, 2024: SEAOSF Trade Show and Seminars

Trade Show Time: 5 pm to 6:30 pm

Dinner : 6:30 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 SEAOC Attendees

See Page 6 for more information.

Wednesday, August 2, 2024: SEAOC/OACI Golf Tournament

Location: Langdon Farms Golf Club, 24377 Airport Road, Aurora, OR

Shotgun Start: 1:00 pm; Social Hour 6:00 pm; Dinner & Awards 6:30-7:30 pm

See pages 11 and 12 for registration and sponsorship information.

September 4—September 5, 2023: SEAOC Convention & SEA NW Conference

Location: Hyatt Regency at the Oregon Convention Center, Portland, OR

See Page 5 for more information.

Tuesday, November 12, 2024: SEAOC Structural Engineering Awards Banquet (SAVE THE DATE)

See Page 4 for more 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:

9220 SW Barbur Blvd.
No. 119
PMB #336
Portland, OR 97219

PRESIDENT'S MARCH MESSAGE

BY: JARED LEWIS, PE, SE

Greetings and welcome to March 2024!

I am looking forward to the advent of spring, warmer weather, maybe some golf and hopefully some sunnier days! I'm also looking forward to Marc Sokol's presentation on **March 12, 2024**, when he will review the outcomes of the forensic investigation of the 1981 walkway collapse at the Hyatt Regency Hotel in Kansas City. Unknown fact about me, but I read about this in Reader's Digest as a 4th grader and it likely propelled me into the field of structural engineering. It is a fascinating review of the critical role structural engineers play in the built environment and how the simplest of decisions can be so very consequential. Registration is open on the SEAO website. I look forward to seeing you there! If you haven't already, please mark your calendars for the following events affiliated with SEAO:



BOARD OF DIRECTORS 2023/2024

President
Jared Lewis
catena consulting engineers
Ph: 503.467.4980
jared@catenaengineers.com

Vice President
Christopher Carroll
SSOE Group
Ph: 1.360.440.1071
ccarroll@ssoe.com

Secretary
Nisarg Mehta
nisargmehta39@gmail.com

Treasurer
Kylean Gunhus
Miller Consulting Engineers
Ph: 503.246.1250
kylean@miller-se.com

Director
Sarah Johnson
Akana
Ph: 503.440.9368
sarah@mstructural.com

Director
Elyssa Adams
Holmes Structures
Ph: 503.971.1050
elyssa.adams@holmesstructures.com

Past President
Peder Golberg
James G. Pierson, Inc.
Ph: 503.226.1286
peder@jgpierson.com

Executive Secretary
Jane Ellsworth
SEAO Staff
Ph: 503.753.3075
jane@seao.org

1. The 2024 Mass Timber Conference occurs **March 26 - March 28**. It will be the largest conference yet taking over the Convention Center. This event is not only about mass timber as a building material but also about timber policy, modular building concepts, sustainable building practices, and creative ways projects can be funded. Add it to your calendar if you can and register here: <https://masstimmerconference.com/register>.
2. Back by popular demand is the SEAO Trivia Night! Please save the date for **April 9, 2024**!
3. The 2024 SEAO Excellence in Structural Engineering Awards initial qualifications submissions are due **April 30, 2024**. Get your project names and photographs submitted to have the opportunity to submit final entries by **June 30, 2024**. We look forward to seeing your submittals at all levels of the project criteria. Please direct questions or comments to Brynn Adkins (badkins@tmrippey.com) and JoMarie Farrell (jomarie@equilibriumllc.com).
4. SEAO elects a new board each year. If you are interested in participating at the board level, please consider submitting for positions you're interested in when the board positions open in April. Look for more information on our website.
5. The joint SEAO/ACI golf tournament occurs on **August 7, 2024**, at Langdon Farms. If interested in sponsorships or golfing, please contact Jane Ellsworth (jane@seao.org).
6. SEAO is excited to offer stipends to cover the cost of admission for up to three (3) deserving young structural engineers within the SEAO organization. Formal applications and criteria will be made available via the SEAO website by April 15, 2024. The SEOAC Convention and the Northwest Convention are combining forces next September and offers an opportunity for Engagement with our fellow structural engineering peers both in the Pacific Northwest and California to help the Planning Committee! The joint convention will be held at the Convention Center **September 4-7, 2024**.

I have mentioned our upcoming survey of membership in past monthly messages. The board has been working hard to solidify our questionnaire for members. We will be launching an anonymous survey this month. We've limited the number of questions to respect your time. Our goal is to hear from as many of our members as possible. We will post the results of the survey on the website and begin organizing the results into strategic planning efforts. Please look for the survey in your inboxes and consider responding to help us develop SEAO's vision for the future.

Thank you all in advance for supporting SEAO in any way you are able. SEAO is only strengthened through your continued efforts and involvement!

Thank you,
Jared Lewis
2023/2024 SEAO President

SEAO COMMITTEES

CODE ADVISORY COMMITTEE

Seismic
Jonathan Knudtsen
jknudtsen@wje.com

Wind
OPEN CHAIR

Snow Load
Andy Stember
andy@jasenginc.com

Code
Eric Watson
eric@miller-se.com

Vintage Building
OPEN CHAIR

Special Inspections
Eric Watson
eric@miller-se.com

Sustainability
Jo Ann Offill
joffill@mcknze.com

STRUCTURAL ENGINEERS EMERGENCY RESPONSE (SEER)

David Tarries
David.tarries@portlandoregon.gov

PROGRAM COMMITTEE

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

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

MARCH CHAPTER MEETING TUESDAY, MARCH 12, 2024, 11:30 AM–1:00 PM

Topic: Hyatt Walkway Collapse

Description: This presentation will provide a summary of the forensic investigation of the July 17, 1981 walkway collapse at the Hyatt Regency in Kansas City. The presentation includes:

- Overview of the Structural Framing of the Walkways
- Field Investigation of the Collapse
- Review of Design/Construction Documents
- Testing of Walkway Components
- Destructive Testing of Mockup Box Beam Connections
- Determination of Walkway Loads at Time of Collapse
- Building Code Analysis of Connection Design
- Evolution of the Connection Detail
- Responsibility and Contributing Human Factors

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: The Old Spaghetti Factory, 715 S Bancroft Street, Portland, OR

Parking information: Free Parking Lot with Validation Provided During Meeting

Time: 11:30—Check-in
Noon—Lunch & Program

Cost: \$35 Prepaid Members
\$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/mar2024/hyatt-walkway-collapse> before end of day, Friday, March 8. 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: 1 PDH has been recommended for this program.

Questions: Contact Jane Ellsworth at jane@seao.org

2024 SEAO EXCELLENCE IN STRUCTURAL ENGINEERING AWARDS

The SEAO Awards Committee received too few entries to hold the awards banquet in February. SEAO is in the process of re-grouping to allow more time to enter member projects on the SEAO website. Projects must have been completed in 2021, 2022, or 2023. **Submission deadlines will include a two-step process.** The **first step** is to submit your project's name and a few photos. That deadline will be **April 30, 2024**. The **second step** is to complete your entries, filling in all text boxes on the web site. That deadline will be **June 30, 2024**. Members may also fully submit their entries anytime between now and June 30, 2024, but at a minimum by April 30, they are to submit their project title and a couple of photos.

Award categories include:

- New Buildings Under \$10M
- New Buildings \$10M to \$40M
- New Buildings Over \$40M
- Renovation/Retrofit
- Special Use Structures

The awards banquet will be held on **Tuesday, November 12, 2024**. Visit <https://www.seao.org/committees/advocacy/awards-committee> to see the Awards Committee web page and to begin your submission(s). Don't forget to login to access the web-site to start your submission. For ease on the submission process, you can start, stop, and save your work as you create your submission. Eligibility requirements include:

1. Project must have completed construction during the calendar years of 2021, 2022, or 2023.
2. At least one member of the design team, research team, or a principal of the firm responsible for entry must be a member of SEAO.
3. Entries may be of any size, type, and location.
4. Projects may be submitted into one category only. SEAO reserves the right to reassign the category, should it meet the criteria for more than one category.
5. Each company may submit up to two projects per category (10 projects total).

We especially encourage small firms to submit their projects. Remember to submit as much technical information as possible. The judges are looking for your engineering challenges and creative structural ideas. We want to see what you have been working on! Start thinking about a project or projects you want to submit for consideration or visit the link above to begin your submission(s).

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.

SEAO PAST PRESIDENTS (CORRECTION)

2021-2022	David Linton
2022-2023	Peder Golberg

2024 SEAOC CONVENTION & SEANW CONFERENCE
LEARNING FROM THE PAST, BUILDING THE PRESENT, SHAPING THE FUTURE
SEPTEMBER 4–7, 2024
HYATT REGENCY AT THE OREGON CONVENTION CENTER, PORTLAND, OREGON

SEAOC and the 2024 SEAOC Convention Committee are happy to announce that SEAOC's signature annual event this year will be September 4–7, at the Hyatt Regency at the Oregon Convention Center in Portland—our first-ever convention in this beautiful and dynamic city. This year's Convention Committee from SEAONC, our Northern California association, is working in partnership with the structural engineering associations of the Pacific Northwest, and this year's 2024 SEA Northwest Conference will be part of this year's convention. The Technical Program will include concurrent technical sessions, an opening plenary presentation by Dr. Erica Fischer from Oregon State University, and a special closing plenary session featuring a panel of distinguished members of the SEAOC College of Fellows.

Exhibitor Booths – Available now! Contact SEAOC2024@seaoc.org to reserve your spot!

Sponsorship Opportunities – Available now! Contact SEAOC2024@seaoc.org for available opportunities.

Key Dates:

- Call for Program Abstracts: Closed 3/1/2024; Notification of Selection: On or Before 4/30/2024
- Pathways Program Applications Open: 3/4/2024; Notification by 5/6/2024
- Event Website and Registration Launch: 5/6/2024
- Early Bird Registration through: 5/24/2024
- Hotel Rooms Available to Book: 5/6/2024

**INTERNATIONAL MASS TIMBER
CONFERENCE**
OREGON CONVENTION CENTER
MARCH 26-28, 2024

The International Mass Timber Conference is the largest gathering of mass timber experts in the world, covering the entire industry supply chain. Over 2,000 attendees from 27 countries have registered to attend so far.

Explore cross-laminated timber (CLT), nail-laminated timber, glulam, mass plywood panels, dowel-laminated timber, and laminated veneer lumber; and the opportunities and obstacles in global design, construction, development, manufacturing, and more.

Visit: <https://masstimberconference.com/> to find out more information on the conference and to register. Note that hotels associated with conference are sold out, but there are still plenty of hotels close by. Visit: <https://www.travelportland.com/plan/lloyd-hotels/> and <https://www.travelportland.com/plan/downtown-hotels/> for other hotels within walking distance or a short MAX ride from the convention center.

SEATTLE URM RETROFIT TECHNICAL STANDARD WEBINAR

THURSDAY, MARCH 21, 2024, 12:00 PM–1:00 PM

In October 2023, Seattle City Council adopted [Resolution 32111](#) that supports the development of a voluntary seismic retrofit ordinance that will establish a minimum seismic safety standard for the retrofit of unreinforced masonry (URM) buildings. Seattle has 1,100 URM buildings and an 86% chance of experiencing a damaging earthquake in the next 50 years. Adopting a mandatory URM retrofit ordinance continues to be the City's long-term goal. However, adding a short-term goal to adopt a voluntary URM retrofit ordinance provides assurance to URM building owners that by retrofitting to the established standard, they will be compliant with future mandatory requirements.

SDCI published the [2023 Draft URM Retrofit Technical Standard](#), an update from the 2012 draft, that will inform the future voluntary retrofit ordinance. The updated standard includes a clearer scope of retrofit and testing requirements to qualify for using the Alternate Method for retrofit. Additionally, the update establishes criteria for recognizing previous seismic retrofits, which will help URM building owners understand how future mandatory retrofit requirements may impact them. This presentation will cover development of the retrofit technical standard and the two retrofit methods for URM building owners, the Code-Based Method or the Alternate Method.

2024 SEAOSF TRADE SHOW

MAY 14, 2024, STARTS AT 5 PM

Save the Date! The 2024 SEAOSF (Scholarship Foundation) trade show will be held on May 14, 2024 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: 6:30 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. Look for information in future newsletters for additional information on trade show, and mini-seminars.

About the Presenter & Collaboration Team:

Amanda Hertzfeld from the Seattle URM Project will present on Seattle's recent progress towards mandating seismic retrofits of URM buildings.

The Seattle Department of Construction and Inspections (SDCI) developed the 2023 Draft URM Retrofit Technical Standard in collaboration with a team of local structural engineers who are familiar with regional practice related to URM evaluation, design, and retrofit methodology. This team was formed in 2022 to update the previous 2012 Draft Retrofit Standard to reflect the current understanding of regional seismic hazards and building codes. The SDCI Team is comprised of Kai Ki Mow, P.E., S.E., Principal



Engineer; Nathalie Boeholt, P.E., S.E., Technical Codes Manager; Kevin Solberg, P.E., S.E., Structural Plans Engineer; Dennis Pradere, P.E., S.E., Structural Plans Engineer; and Amanda Hertzfeld, URM Program Manager, the only non-engineer on the team, with a background in urban planning and emergency management.

Cost: FREE

PDH Credit: 1 PDH

Register at: <https://www.seao.org/events/mar2024/seattle-urm-project>.

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.

YMF UPDATE



In late February, a few SEAO YMF members participated in the Engineers Week High School Program. This program has been going on for 60 years and gives students the opportunity to attend seminars to help them prepare for college, visit the exhibit hall, chat with different types of engineers, and have lunch with practicing engineers.

Our YMF members came prepared with a shake table and some tools of the trade and were able to educate over 225 students about what structural engineers do. We had an incredibly busy booth and one student even told her friend that we were her favorite out of all of the tables. If you're interested in participating next year, reach out to the YMF co-chairs at ymf.seao@gmail.com.



SEER UPDATE

There is a WAsafe Building Safety Evaluations (ATC 20/45 Plus) training opportunity in the Tri-Cities on March 15.

Location: Meier Architecture Engineering
12 W Kennewick Avenue
Kennewick, WA

Date & Time:
Friday, March 15, 2024
8 am to 4:30 pm

Cost: \$155 (includes lunch & light refreshment)
Add-Ons: ATC-20-1 & ATC-45 Available for Purchase
PDH: 7.5 PDH Credits Available

More details and registration can be found at the following website: lp.constantcontactpages.com/ev/reg/wk7mj5z?source_id=3f8c1d76-95ee-46bc-941b-41a1782294a6&source_type=em&c=IXwvQ1N9dcLJRQd2QDB2eYqQr3t7OpRaUYi7EB-Hpolj3mWrnMxuEA==.

This could be a good opportunity for Oregon engineers in the Northeast side of the state to get into WAsafe if they are interested. OrSAP training also has reciprocity with the WAsafe program so there is that option as well.

NCSEA UPCOMING LIVE WEBINARS

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

March 7, 2024, 10 am Pacific Time (Fee for Webinar)

Concrete Slender Wall Design and Its Out-of-Plane Anchorage

Speaker: John Lawson, S.E., Professor Architectural Engineering, Cal Poly, San Luis Obispo

The design of slender concrete walls out-of-plane, also known as tilt-up construction, is based on a combination of theoretical and experimental evidence; however, the concepts behind the provisions in ACI 318 are often misunderstood and sometimes improperly applied. This presentation will explain the basis of many of the provisions with some seismic design examples. Additionally, the importance of out-of-plane wall anchorage will be highlighted with a summary of the anchorage design and load flow modeling. (1.5 PDH)

March 12, 2024, 10 am Pacific Time (Fee for Webinar)

The Circular Economy in Construction—An Introduction to the Topic and the Boulder Community Hospital Case Study

Speakers: Dan Bergsagel, Sustainability Lead, Schlaich Bergermann and Andy Paddock, P.E., KL&A Engineers and Builders

Dan Bergsagel from sbp will introduce the principles of a Circular Economy in the construction industry. He will touch on how structural engineers can maximize the reuse of material in their work through designing for deconstruction, working with clients to deconstruct their projects to salvage material, and designing with reused materials in mind for new construction. Andy Paddock from KL&A will present a detailed steel reuse case study of the Boulder Community Hospital and associated local projects, including lessons learnt and important considerations for the future of structural steel reuse. (1.25 PDH)

March 14, 2024, 10 am Pacific Time (Fee for Webinar)

Design and Detailing of Steel Reinforced Concrete Buildings in SDC C

Speaker: David Fanella, P.E., S.E., Senior Director of Engineering, Concrete Reinforcing Steel Institute

This presentation provides a summary of the design and detailing requirements for steel reinforced concrete buildings in accordance with ACI 318-19. Presented are the ACI 318 requirements along with the structural systems commonly used in SDC C, design aids, and recommendations and guidelines on how to size and detail the structural members for constructability. (1.5 PDH)

March 21, 2024, 10 am Pacific Time (Fee for Webinar)

Designing Hospitals for Seismic Design Category C

Speaker: Brent Bandy, P.E., S.E., Senior Principal, Walter P Moore
Special seismic detailing is routine for West Coast engineers, but for many engineers in the rest of the country, we spend our time designing structures in Seismic Design Category A and B. However, in some areas and conditions, the high Risk Category of buildings such as hospitals tip the structure into Seismic Design Category C. What does this mean for code requirements, special detailing, extra design time, material quantities, coordination with other design team members? (1.5 PDH)

March 26, 2024, 10 am Pacific Time (Fee for Webinar)

FRP Collector Strengthening in a California Hospital

Speakers: Erik Moore, S.E., Associate, Degenkolb Engineers and Sarah Outzen, P.E., Composite Strengthening Systems Field Engineer, Simpson Strong-Tie

Seton Medical Center is hospital south of San Francisco, CA, that had fallen behind in meeting state-mandated seismic performance milestones and was under a tight deadline to ensure the building could safely remain open for patients. After various stops and starts, the retrofit moved forward with a combination of traditional materials and fiber-reinforced polymer (FRP), which was initially specified to enhance seismic shear on columns. Simpson Strong-Tie joined the project team as FRP manufacturer and engineer-of-record for the composite system after building full-scale column mock-ups to address constructability concerns. Simpson's composites development team then value engineered steel collectors to FRP, leveraging Simpson's certified Tyrell Gilb Laboratory in Stockton, CA, to perform several rounds of testing to validate high load-carrying capacities of the collectors, and satisfy many unique field constraints on the project. (1.25 PDH)

April 4, 2024, 10 am Pacific Time (Fee for Webinar)

Changes in ASCE 7-22 Wind Load Provisions for Components and Cladding (C&C)

Speaker: William L Coulbourne, P.E., F.SEI, F.ASCE

The C&C wind load provisions adopted for ASCE 7-16 introduced several changes that increased the C&C wind pressures in some roof zones of flat, gable, and hip roofs. Roof zones were added, usually increasing the number of zones from 3 to 6. There were some zones where the effective wind areas (EWA) were reduced to less than 10 sq. ft, thus increasing the C&C pressures. These complications were removed in ASCE 7-22 thus usually reducing the wind pressures but more importantly making the provisions easier to use. These changes will be covered in this webinar. (1.25 PDH)

April 25, 2024, 10 am Pacific Time (Fee for Webinar)

Wind Loads on Irregular Buildings

Speakers: Todd Clapp, P.E., S.E., Project Engineer at Martin/Martin Consulting Engineers and John O'Brien, P.E., S.E., Director of Engineering at PES Structural Engineers

The ASCE 7 Standard provides prescriptive provisions for determining wind loads on regular shaped buildings. Practitioners are tasked with designing a wide variety of building structures that don't always fit exactly within the provisions of the standard. This session will provide guidance on applying the wind provisions to a variety of building shapes and components by understanding how wind pressures and pressure coefficients relate to wind flow around a building. Additional design guides will be discussed, and examples will be presented. This presentation was developed by the NCSEA Wind Engineering Committee. (1.25 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>.

EMPLOYMENT OPPORTUNITIES

OTAK

Bridge/Structural Engineer
Redmond, WA

Otak is hiring a Bridge/Structural Engineer to join our team for our Redmond, WA office! 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.

Otak employees enjoy no-cost medical, dental, vision, life and disability insurance; 401(k)-retirement match (100% vested immediately); Paid Time Off (PTO) accrual based on industry experience and more!

Please apply at: [Otak Bridge/Structural Engineer](#)

KURT FISCHER STRUCTURAL ENGINEERING

Structural Engineer
Portland, OR

Kurt Fischer Structural Engineering (www.kfseng.com) is looking for entry-level or experienced structural engineers to join our Portland office. KFSE provides innovative and creative solutions for the built environment. We are looking for passionate and ambitious structural engineers to join our versatile, progressive, and experienced firm. Current projects include: historic non-ductile concrete and URM seismic rehabilitation, mid-rise office buildings, residential apartment and mixed use complexes, luxury residential, and a mid-rise luxury hotel.

We highly value our employees and strive to foster a positive and energetic work environment by providing engineers with the tools, resources, and mentoring to further their knowledge and career. There is ample opportunity for upward mobility within our firm, and we invite you to talk with us about exciting opportunities at KFSE.

Contact/send resumes to: LT@kfseng.com

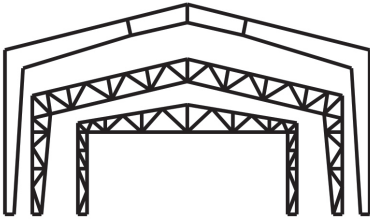
MACKENZIE

Director of Project Management
Portland, OR

Mackenzie is a multi-disciplined architecture and engineering firm with offices in Portland, Vancouver, and Seattle. We are home to architecture, interior design, landscape architecture, planning, and structural, civil and transportation engineering disciplines all in-house. The role of PM Director is an exciting leadership opportunity, encompassing all three of our offices and crossing all our design and engineering disciplines. Director will be responsible for developing, managing, and overseeing project management standards, execution, training, and mentorship. Candidates should have leadership traits, strong communication skills, be highly organized and emotionally intelligent. Demonstrated experience should reflect both team and project management with preferred experience in the architecture, engineering, or construction industry.

For full job post, visit: <https://mackenzie.inc/job/administration-64>

Salary: \$120,000 to \$170,000
Equal Opportunity Employer



Web Steel Buildings Northwest LLC

**YOUR LOCAL
MANUFACTURER
OF CUSTOM
PRE-ENGINEERED
METAL
BUILDINGS**

**WSBNW.COM
503-668-7211
Sandy, OR**



2024 SEAO / OACI GOLF TOURNAMENT



**\$20,000
HOLE IN ONE
PRIZE!**

AUG. 7TH, 2024
Langdon Farms Golf Club
1:00 PM SHOTGUN START!

WHEN:

DATE: Wednesday, Aug. 7th, 2024
SHOTGUN START: 1:00PM
SOCIAL HOUR: 6:00PM
DINNER & AWARDS: 6:30–7:30PM

WHERE:

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

TOURNAMENT:

4-Player Team Scrambles

DINNER:

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

EVENT DETAILS:

For 2024, OACI and SEAO will be returning to the premier Portland area golf club, Langdon Farms!

Langdon Farms Golf Club remains, as stated at the entrance, "Public Only." For several 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 18-hole "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.

Appropriate "Country Club" attire is required:

- Collared Shirts
- No Denim
- Shorts must have a 6" inseam
- Soft spikes only

CONTACT:

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

REGISTRATION:

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

****** NO REFUNDS FOR CANCELLATIONS AFTER JULY 24th ******

(Player Fee includes **2 raffle 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

\$225

\$ _____

☐

☐ SEAO ☐ OACI

\$225

\$ _____

☐

☐ SEAO ☐ OACI

\$225

\$ _____

☐

☐ SEAO ☐ OACI

\$225

\$ _____

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

2024 SEAO / OACI GOLF TOURNAMENT



AUG. 7TH, 2024
Langdon Farms Golf Club
1:00 PM SHOTGUN START!

SPONSORSHIP FORM

Company Name: _____

Contact Name: _____

Phone: _____ Fax: _____

Email: _____

HOLE SPONSORSHIP *(choose any or all of the following)*

☐ **HOLE SPONSORSHIP - \$300**
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 sponsors)

☐ **DINNER SPONSORSHIP - \$3,000**
Join the SEAO and OACI by sponsoring the on-site barbacue dinner! Includes tournament registration for a team of four, and distinct recognition from SEAO/OACI at the on-site dinner.

ADDITIONAL SPONSORSHIPS *(choose any or all of the following)*

☐ **LD/KP/Long Putt Hole Sponsor \$150**

☐ **On Course Drink Refreshment Sponsor \$500**
(Host drink cart for one beverage per participant to be redeemed during play)

☐ **Tee Off Sponsor \$300**
(Host keg of Micro-brew)

☐ **19th Hole Sponsor \$300**
(Host keg of Micro-brew)

☐ **Golf Cart Sponsor \$500**
(Host the golf carts with a sign in each cart with your company name)

SPONSORSHIP
SUB-TOTAL:

\$

TEAM REGISTRATION

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

TEAM:

Player Names

Membership

Fee

Payment Enclosed

☐

☐ SEAO ☐ OACI

\$225

\$ _____

☐

☐ SEAO ☐ OACI

\$225

\$ _____

☐

☐ SEAO ☐ OACI

\$225

\$ _____

☐

☐ SEAO ☐ OACI

\$225

\$ _____

***Included with every team registration: 4 (four) Mulligans total (1 per player) and 1 (one) Five-Foot String, per Team.**

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