CONNECTIONS

May 2025 Volume 24 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

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SEAO has a LinkedIn account and can be followed at SEAO LinkedIn Page.

Upcoming SEAO Meetings and Events:

Thursday, May 15, 2025: OACI Seminar—Blended Cement Workshop
Location: McMenamins Kennedy School, 5736 NE 33rd Avenue, Portland, OR
Time: 8 am to 5 pm
Cost: Early Bird Before April 25 = $225 (Non-Member); After April 25 = $250 (Non-Member)
To Register Visit: www.oregonaci.org
See pages 11 and 12 for more information.

Thursday, May 29, 2025: SEAO Seminar Updates Coming to 2024 I-Codes, ASCE 7-22, and More
Location: Sheraton Portland Airport Hotel, 8235 NE Airport Way, Portland, OR
Time: Registration 8 am, Seminar Presentation 8:30 am to 4:30 pm
See page 2 for registration information.

Wednesday, July 9, 2025: 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
SEAO is sold-out on golfing, but opportunities remain for sponsorships.
See page 7 for sponsorship opportunities that are still available.

Thursday, September 11, 2025: OrSAP Training—SAVE THE DATE
Location: Embassy Suites Washington Square, 9000 SW Washington Square Rd, Tigard, OR
Time: 8 am to 4 pm
More information will be forthcoming via the SEAO website and newsletter

Monday, September 15 - Friday, September 19, 2025
19th World Conference on Seismic Isolation, Energy Dissipation, and Active Vibration Control of Structures (19WCSI)
Location: University of California, Berkeley, Main Campus
See Page 4 for more information.

Thursday, September 25 - Friday, September 26, 2025
2025 SEA NW Conference E
Location: DoubleTree by Hilton Hotel Spokane City Center, 322 N Spokane Falls Court, Spokane, WA
See Pages 4, 9, and 10 for more information and registration link.

Tuesday, October 14 - Friday, October 17, 2025
NCSEA 2025 Structural Engineering Summit
Location: New York Hilton Midtown, 1335 6th Avenue, New York, NY
Registration is now open. See Page 3 for more information.

Wednesday, October 15, 2025: SEAO Seminar SAVE THE DATE
Topic: ACI 318-25
Location: Embassy Suites Washington Square, 9000 SW Washington Square Rd, Tigard, OR
Time: 8 am to 4 pm
More information will be forthcoming via the SEAO website & 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.
No. 119
PMB #336
Portland, OR 97219

SEAO SEMINAR: UPDATES COMING IN THE 2024 I-CODES, ASCE 7-22, AND MORE

Thursday, May 29, 2025
8 AM–4:30 PM

Topic: Updates Coming in the 2024 I-Codes, ASCE 7-22, and More

This seminar will cover many of the changes coming in ASCE 7-22, which will be adopted by the 2024 IBC and the 2025 OSSC. There are significant changes that have been made to the seismic, wind, and snow chapters that will have impacts on designs of all building types. Some of these changes include the new multi-period response spectra, non-structural anchorage design force equations, new snow load maps, and ASCE 7 hazard tool (now free). In addition, the seminar will cover changes to the 2024 IBC chapter 16 including some significant changes to the risk category table. The seminar will also highlight updates to the wind chapter including the new Tornado chapter and the completely re-written flood chapter which is part of supplement 3 (targeting the 2027 IBC adoption).

Speaker: Seth Thomas, PE, SE, KPFF Consulting Engineers

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

Location: Sheraton Portland Airport Hotel, 8235 NE Airport Way, Portland, OR

Time: 8 am — Registration
8:30 am to 4:30 pm— Seminar

Cost: $225 Member
$275 Non-Member
$65 Student
$25 Late Fee After May 22

Reservations: Pre-registration is required for all. **You can register and pay online at:** https://www.seao.org/events/may2025/updates-coming-2024-i-codes-asce-7-22-and-more. You can also register with Jane Ellsworth via phone at (503)753-3075 or via email: jane@seao.org. It is expected that this event will sell out so **register early**.

Lunch: A buffet lunch is included with your registration.
PDH Credits: Six (6) PDHs will be available for this program.
Questions: Contact Jane Ellsworth at jane@seao.org.

SEAO COMMITTEES

CODE ADVISORY COMMITTEES
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

STRUCTURAL ENGINEERS EMERGENCY RESPONSE (SEER)
David Tarries
David.tarries@portlandoregon.gov

PROGRAM COMMITTEES
Golf Tournament
OPEN CHAIR

Conferences
Kevin McCormick
kevin@miller-se.com

Monthly Meetings
Jared Lewis
jared@catenaengineers.com

ADVOCACY COMMITTEES
Awards
Brynn Adkins
badkins@tmrippey.com

Website
Seth Thomas
seth.thomas@kpff.com

Engineers Week
Michelle Juarez
michelle@miller-se.com

Young Member Forum
Walker Maddalozzo
YMF.seao@gmail.com

Sustainability
Jo Ann Offill
joffill@mcknze.com

SE3
William Locke
william.locke@coffman.com

CONTINUING EDUCATION COMMITTEE
Seminars
Andy Stember
andy@jasenginc.com

MEMBERSHIP COMMITTEES
Newsletter
JoMarie Farrell
jomarie@equilibriumllc.com

Roster
Jane Ellsworth
jane@seao.org

DELEGATES

NCSEA
Jared Lewis
jared@catenaengineers.com

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

WCSEA/NWC

Amit Kumar
Amit.kumar@portlandoregon.gov

PRESIDENT'S MAY MESSAGE
By: Christopher Carroll, PE

Dear SEAO Members,

I am reaching out to encourage greater member participation in our committees. Our organization thrives on the active involvement of its members, and your engagement is crucial for us to continue offering high-quality professional development opportunities.

We are currently seeking participants for our Programs Committee, which plays a vital role in organizing our lunch and learn sessions. This committee is responsible for identifying relevant topics, securing knowledgeable presenters, and coordinating the events. Your contribution to this committee will directly impact the success and quality of our professional development offerings.

I urge you to consider joining the Programs Committee. Your involvement will not only benefit SEAO but also enhance your professional growth and network within the industry. As Vince Lombardi wisely said, "Individual commitment to a group effort – that is what makes a team work, a company work, a society work, a civilization work."

Please reach out to Jane Ellsworth (jane@seao.org) if you are interested in joining.

Thank you,
Chris Carroll, PE
2024/2025 SEAO President

NCSEA 2025 STRUCTURAL ENGINEERING SUMMIT
October 14–17, 2025
SAVE THE DATE

Bright ideas in the Big Apple: The NCSEA Structural Engineering Summit is coming to New York City from October 14–17, 2025.

Be part of the action at the Midtown Hilton, where you'll connect with practicing structural engineers, industry leaders, and innovative thinkers from across the country. Join us to explore the latest advancements in structural engineering, building, and design codes through engaging education sessions. Collaborate on technical, business, and industry challenges, enhance your leadership skills, and expand your professional network in an inspiring setting.

Registration Is now open. Visit: https://site.pheedloop.com/event/NCSEASummit2025/home/ to register.

Those that are interested in exhibiting or sponsoring can visit https://www.ncseasummit.com/exhibit-hall-exhibitors for more information.

2025 SEA NW CONFERENCE
SEPTEMBER 25-26, 2025
REGISTRATION IS OPEN

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.

Registration pricing is as follows:

- SEA Members: $575
- Non Members: $675
- YMG (Young Member Group): $300*
- One Day Members: $325
- One Day Non Members: $375
- Students: $150

*Young Member Group registrants are SEA members of the age 35 and under.

The SEAW Spokane Chapter is also excited to announce the CSI, Inc. will be hosting an unforgettable social event on Thursday evening during the conference. It is an event you do not want to miss. For more information and to register, visit https://www.seaw.org/seanwconference. See pages 9 and 10 for a detailed conference schedule.

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.

19WCSI CONFERENCE
SEPTEMBER 15-19, 2025
UC BERKELEY, CA

The Pacific Earthquake Engineering Research Center (PEER) is pleased to announce the **19th World Conference on Seismic Isolation, Energy Dissipation and Active Vibration Control of Structures (19WCSI)** registration portal is now open.

PEER and Anti-Seismic Systems International Society (ASSISi) are co-organizing the conference at UC Berkeley, on **September 15-19, 2025**.

The conference series started in 1989 in San Francisco, and with 19WCSI returns to Northern California for the firsts time in 36 years.

Over 300 abstracts in 16 topic areas have been received from contributors from more than 30 countries, and a rich program of oral and poster/monitor presentations is being developed.

With keynote presentations by renowned international experts, a pre-conference bridge workshop, an exhibition of international seismic protection technology companies and technical tours, the conference is the premier global gathering for seismic isolation and energy dissipation.

To learn more information, please visit the conference website at https://19wcsi.org/ and please register here: https://19wcsi.org/registration/

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 UPCOMING LIVE WEBINARS

Register At: https://www.ncsea.com/education-events/calendar/

May 15, 2025, 10 am—11:15 am Pacific Time (Fee for Webinar/ Included in Webinar Subscription Package)

Truth & Consequences—What Happens If You Agree to Those Inadvisable Contract Provisions

Speakers: Karen Erger, Lockton and Eric Singer, Taft Law Firm

Your lawyer, broker, risk manager, or advisors tell you to avoid or reject certain contract clauses, but you are not in a position to follow that advice. What happens next? It is important to understand the possible consequences in order to make an informed business decision about accepting risk. Join construction lawyers Karen Erger and Eric Singer while they review the clauses you were warned about and illustrate the consequences of their acceptance. Karen and Eric will also discuss strategies for mitigating risks when you have no choice about the contract language. . (1.25 PDH)

June 5, 2025, 10 am to 11 am Pacific Time (Fee for Webinar/Included in Webinar Subscription Package)

Liquefaction: A Structural Engineer's Guide to Risk and Design

Speaker: Jeremy Butkovish, P.E., G.E., Shannon & Wilson

Liquefaction is a phenomenon that can have catastrophic effects on structures. The effects of liquefaction can range from massive flow slides and foundation failures to excessive settlements, ground oscillations, and buoyancy of buried structures. Mitigating liquefaction and its effects requires close collaboration between geotechnical and structural engineers. This webinar will describe the effects of liquefaction on structures, provide options for mitigating the effects, and describe design procedures that structural and geotechnical engineers should follow. (1 PDH)

June 12, 2025, 10 am to 11 am Pacific Time (FREE)

2025 SEE Awards Webinar Series

New Buildings < $30 Million: Fraser Mills Presentation Center

Speaker: Lukas Gispert, StructureCraft

As a showcase for innovative mass timber systems, the Presentation Centre at Fraser Mills uses cutting-edge engineering, computational design and an experienced team of carpenters to create a welcoming space for the larger development. Structurally, the project is expressed with a sweeping, ruled roof surface that runs through each of the 26 unique glulam frames. These frames span up to 70ft between short, cantilevered glulam columns and a pair of up to 33ft high splayed columns. (1 PDH)

June 17, 2025, 10 am—11:15 am Pacific Time (Fee for Webinar/Not Included in Webinar Subscription Package)

Insights from IBC 2021 & ASCE 7-22, Day 1, Design of Concrete Diaphragm, Chords and Collectors for Horizontal Irregularity

Speaker: Badri K. Pradad, S.E., OLMM Consulting Engineers, Inc.

Structural irregularities are not uncommon to encounter in buildings due to the issues that can arise from the coordination of the plan layout, aesthetics, space planning, and other details involved in completing any building configuration. Data from past earthquakes demonstrated that buildings with irregularities have performed poorly and suffered greater damage when compared with buildings having regular configurations. In regular structures, the seismic demands imposed on the structure by the ground motion generally tend to be well distributed which leads to the dispersion of energy dissipation and damage. However, for irregular structures, the seismic demands tend to concentrate in the zone of irregularity, resulting in major damage and failure of structural elements in these zones. The actual load paths may differ from those in the design analysis due to these irregularities. This presentation is based on the recently published "Guide to the Design of Common Irregularities in Buildings," focusing on designing concrete diaphragms for out-of-plane shear wall offsets in a four-story concrete building, addressing seismic design categories B and D. (1.25 PDH)

June 19, 2025, 10 am—11 am Pacific Time (Fee for Webinar/Not Included in Webinar Subscription Package)

Insights from IBC 2021 & ASCE 7-22, Day 2, Design of Concrete Diaphragm, Chords and Collectors for Horizontal Irregularity

Speaker: Rafael Sabelli, S.E., Walter P Moore

This is a continuation of webinar on June 17. See above for more information. (1 PDH)

June 26, 2025, 10 am to 11 am Pacific Time (Fee for Webinar/ Included in Webinar Subscription Package)

Unlocking the Essentials of MPCWT Design & Quality Control

Speaker: Marvin Strzyzewski, P.E., Trussing Engineering Company

This webinar is designed specifically for structural engineers looking to deepen their expertise in Metal Plate Connected Wood Truss (MPCWT) systems. We'll explore the industry-recognized design standards that govern MPCWT engineering, review the quality control protocols followed at truss manufacturing facilities, and examine the structural role of connector plates—including how allowable design values are determined and applied. Additionally, we'll cover the key guidance found in the Structural Building Components Association's (SBCA) BCSI document, which provides critical information on the handling, installation, and bracing of trusses in the field.. (1 PDH)

July 10, 2025, 10 am to 11 am Pacific Time (FREE)

2025 SEE Awards Webinar Series

New Buildings $30 Million to $80 Million: BCIT Tall Timber Student Housing

Speaker: Jamie Pabre Sullivan, P.E., S.E., Fast + Epp

The BCIT Tall Timber Student Housing project in Burnaby, British Columbia, is the first of the next generation of point-supported CLT structures and represents a significant advancement in tall, hybrid, mass timber construction. This project demonstrates that point-supported CLT systems are a cost-competitive alternative to traditional concrete structures, particularly for multi-unit residential construction. The insights gleaned from this project are already influencing the design and construction of future mass timber buildings, paving the way for more sustainable and efficient construction practices. (1 PDH)

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

EMPLOYMENT OPPORTUNITY

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

Or Email resumes to: Craig.Meunier@otak.com

2025 SEAO / OACI GOLF TOURNAMENT

JULY 9TH, 2025
Langdon Farms Golf Club
1:30 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.

ONLY 1 LEFT!

☐ **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)

☐ **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 ONLY 1 LEFT!
(Host drink cart for one beverage per participant to be redeemed during play)

☐ **Tee Off Sponsor**
$300 ONLY 1 LEFT!
(Host keg of Micro-brew)

☐ **19th Hole Sponsor**
SOLD OUT!
(Host keg of Micro-brew)

☐ **Golf Cart Sponsor**
$500
SOLD OUT!
(Host a sign in each cart with your company name)

SPONSORSHIP SUB-TOTAL: $

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	Membership	Fee	Payment Enclosed
☐		☐ SEAO ☐ OACI	$250	$_____
☐		☐ SEAO ☐ OACI	SOLD OUT!	$_____
☐		☐ SEAO ☐ OACI	$250	$_____
☐		☐ SEAO ☐ OACI	$250	$_____

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

PLAYER/TEAM SUB-TOTAL: $

TOTAL: $

Pay By MAIL: ☐ **Check Included**

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

ERICKSON STRUCTURAL
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STRUCTURAL PEER REVIEW SERVICES

NEED A SECOND SET OF EYES ON YOUR PROJECT?

Erickson Structural provides independent, customizable peer reviews for engineers working on existing buildings. Our reviews help reduce risk, improve efficiency, identify alternatives, and propose solutions. Peer reviews can be general or detailed, topic-specific, and tailored to fit your timeline and budget. Reviews can be conducted confidentially behind the scenes, so our involvement is not visible to the engineer's client, or transparently, so that all parties are aware of our role and recommendations, depending on project needs and engineer preferences.

We Provide Peer Reviews for:

✓ Engineering Reports for Complex Structural Projects
✓ Remediation for Structurally Distressed Buildings
✓ Structural Forensic Investigations

Flexible Review & Feedback Options:

Feedback can be provided verbally, in writing, through red-line markups, or other formats to meet project needs.

"I have been sending my structural reports to Erickson Structural to review for many years. I have had other engineers review my reports but have not encountered anywhere near the level of thoroughness, quality, frankness and technical feedback that I've received from Erickson Structural. I highly recommend their reviews to enhance the quality of your engineering product." - Marcor Platt, PE, SE

READY TO BEGIN? Start your peer review today at **ericksonstructual.com/peer-review**
QUESTIONS? Contact us at **info@ericksonstructual.com**

10000 NE 7th Avenue, Suite 130
Vancouver, WA 98685
P: 360-571-5577
www.ericksonstructural.com

Thursday, September 25th

7:00AM - 8:00AM	**Breakfast and Check-In, Vendors**
8:00AM - 8:15AM	**Welcome and Announcements**
8:15AM - 9:15AM	**CSI Keynote**
9:15AM - 10:00AM	**Session 1 | What's Shaking? ASCE 7-22 Updates and a Look Ahead** *Hamilton Puangnak - GeoEngineers*
10:00AM - 10:30AM	**Break, Vendors**
10:30AM - 11:15AM	**Session 2 | The Historic Waucoma Hotel Renovation** *Aaron Wegner - Coffman Engineers*
11:15AM - 12:00PM	**Session 3 | Solutions in Steel: Emerging Trends and Technologies Redefining the Industry** *Hannah Valentine - AISC*
12:00PM - 1:15PM	**Lunch, Vendors and 75th Anniversary Program**
1:15PM - 2:00PM	**Session 4 | Shaping the Final Piece, The Perelman Performing Arts Center** *Katie Rief - MKA Engineers*
2:00PM - 2:15PM	**Break, Vendors**
2:15PM - 3:00PM	**Session 5 | An Update on the SE 2050 Commitment Program** *Chris Jeseritz - PCS Structural Solutions*
3:00PM - 3:15PM	**Break, Vendors**
3:15PM - 4:00PM	**Session 6 | Recent Updates to Flood-Resistant Design Standards: ASCE 7-22 Supplment 2 and ASCE 24-24** *Matt Gilbertson - Simpson Gumpertz & Heger*
4:00PM - 6:00PM	**Break Between Sessions and Social Hour**
6:00PM - 10:00PM	**Social, CSI Party**

Friday, September 26th

7:00AM - 8:00AM	**Breakfast and Vendors**
8:00AM - 8:15AM	**Welcome and Announcements**
8:15AM - 9:15AM	**Session 7 | Revitalizing The Seminar 1 Building** *Heather Kline & Theresa Daniel - Integrus*
9:15AM - 10:00AM	**Session 8 | Floor Vibration Concepts and Design Applied to Mass Timber Floors** *Scott Breneman - Wood Works*

Friday, September 26th

10:00AM - 10:30AM	**Break, Vendors**
10:30AM - 11:15AM	**Session 9 | Snow Loads in ASCE 7-22** *John Duntemann - Wiss, Janney Elstner Associates*
11:15AM - 12:00PM	**Session 10 | Learn from the Experts: Significant Changes to ASCE 7-22 Seismic Provisions** *Seth Thomas - KPFF Consulting Engineers*
12:00PM - 1:15PM	**Lunch, Vendors**
1:15PM - 2:00PM	**Session 11 | Innovative Tall Towers Utilizing Performance Based Seismic Design** *Mark Whiteley - CKC Structural Engineers*
2:00PM - 2:15PM	**Break, Vendors**
2:15PM - 3:00PM	**Session 12 | Ground Improvement Considerations for Structural Engineers** *Alec Anderson - Geopier Northwest*
3:00PM - 3:15PM	**Closing Remarks**

OREGON ACI SEMINAR — MAY 15th, 2025

BLENDED CEMENTS WORKSHOP

WITH: Michelle Wilson (PCA), Michael G. Hernandez (ASCC), Jason Weiss (OSU), and More!

THURSDAY MAY 15TH 2025
8:00AM – 5:00PM

McMenamins Kennedy School
5736 NE 33rd Ave
Portland, OR 97211

Engineers receive 6 PDH's for Attending Seminar

Contractors receive 6 CEU's for Attending Seminar

$225.00 For OACI Members

$250.00 For Non-Members

SPACE IS LIMITED SO BE SURE TO REGISTER EARLY!!

EARLY BIRD DISCOUNT: *Register and Pay Before 4/25/25 For Additional* **$25 OFF!**

Cement is Changing for Good: Don't get left behind! Be on the leading edge and join us for a comprehensive, one-day workshop on Blended Cements including portland-limestone cement (Type IL) and other ASTM C595 cements, where industry experts will share insights through presentations, roundtable discussions, and a project showcase.

8:00AM–8:30AM	***WELCOME & CONTINENTAL BREAKFAST (M.Wilson)***
8:30AM–8:45AM	**ROADMAP TO CARBON NEUTRALITY *(M. Wilson)*** • *The Value Chain* • *Low-Carbon Cement and Concrete Protocol*
8:45AM–9:45AM	**FUTURE OF CEMENT *(M. Wilson)*** • *History of Modern Portland Cement* • *Evolving Cement Specifications*
9:45AM–10:00AM	***15 MINUTE BREAK***
10:00AM–11:00AM	**IMPACT OF CEMENT CHARACTERISTICS ON PERFORMANCE OF CONCRETE *(M. Wilson)*** • *Portland Cement Clinker* • *Blended Cement* • *SCMs*
11:00AM–11:30AM	**FRESH CONCRETE PERFORMANCE NEEDS *(M. Hernandez)*** • *Workability* • *Bleed Rate* • *Setting Time*
11:30AM–12:30PM	***1 hour LUNCH (Will Be Provided)***
12:30PM–2:00PM	**FUTURE BLENDED CEMENT RESEARCH NEEDS *(J. Weiss)***
2:00PM–2:15PM	***15 MINUTE BREAK***
2:15PM–3:00PM	**PROJECT SHOWCASE** • *Panel Discussion*
3:00PM–4:00PM	**ROUNDTABLE DISCUSSION**
4:00PM–4:15PM	**CLOSING REMARKS**
4:15PM–5:00PM	***Social Hour***

Left to Right: Michelle Wilson (PCA), Michael G. Hernandez (ASCC), Jason Weiss (OSU) - See Back page for Bios!

KEY TOPICS:

- Explore the history of modern cement and evolution of current specifications of blended cements, along with future prospects.
- Learn how different cement types and their characteristics influence the fresh and hardened properties of concrete.
- Discuss ongoing and emerging research priorities driving innovation in blended cement development.
- Review best practices in using blended cements in concrete construction.

WHO SHOULD ATTEND:

- Architects
- Engineers
- General Contractors
- Concrete Contractors
- Ready-Mix Producers
- Testing Laboratories
- Researchers and Academics
- Municipalities

BENEFITS OF ATTENDING:

- Networking Opportunities: Connect with industry leaders and peers.
- Knowledge Sharing: Gain insights from experts and share your own experiences.
- Professional Development: Stay updated on the latest trends and technologies.
- Collaborative Environment: Engage in collaborative problem-solving.

TO REGISTER, VISIT: *www.OregonACI.org*

OREGON ACI SEMINAR MAY 15th, 2025

BLENDED CEMENTS WORKSHOP

About Michelle Wilson (PCA):

Michelle L. Wilson, FACI, is Senior Director of Concrete Industry Outreach and Support at the Portland Cement Association. She has over 25 years of experience relating to concrete materials, specifications, performance, troubleshooting and repair.

Wilson is the primary author of PCA's ''Design and Control of Concrete Mixtures''. She is responsible for PCA's technical resources covering the entire spectrum of cement and concrete technology including industry outreach and support for PCA's Roadmap to Carbon Neutrality.

Wilson served on the Board of Direction of American Concrete Institute and is past chair of 301 Specifications for Concrete Construction. She received the 2008 ACI Young Member Award for Professional Achievement and became a Fellow of the Institute in 2010. She is also a member of ASTM International Committee C09 Concrete and Concrete Aggregates, and served on the C09 Executive Committee, and is current chair of Subcommittee C09.40-Specification for Ready Mixed Concrete.

Wilson received her BS in architectural engineering from Milwaukee School of Engineering, Milwaukee, WI, with an emphasis in structural engineering and concrete materials. She was awarded the 2022 Outstanding Alumna of the Year from MSOE.

Prior to joining PCA, she worked for Construction Technology Laboratories (CTLGroup), in Skokie, Illinois, specializing in concrete evaluation and troubleshooting, and repairs on various projects throughout the United States. And previous to CTLGroup, she worked as a field inspector performing quality control for STS Consultants, Ltd. in Milwaukee, Wisconsin.

About Michael Hernandez (ASCC):

Mike Hernandez is the Technical Director for the American Society of Concrete Contractors, ASCC. He Co-Chairs ASCC's Technical, Sustainability, Constructability and Finishing committees and oversees the technical content of ASCC, Decorative Concrete Council, and Concrete Polishing Council in support of concrete contractors. Mike serves on 14 ACI committees including Chair of 131-Building Information Modeling.

Prior to joining ASCC, Hernandez worked for 26 years in concrete construction as a project engineer for Mortenson, various roles over 18 years with Baker Concrete Construction, including operations manager and engineering/BIM manager. A senior project manager for Parsons Construction Group, and most recently project manager for All Phase Concrete.

Projects Mike has supervised include two terminal expansions at Miami International Airport, formwork design engineer for 83, 52 and 51-story high-rise buildings; a 223 tilt-panel distribution center; ~3,000-ft. interstate highway bridge; ~9,000-ft bridge for a heavy rail rapid transit system; concrete frame at the Denver Broncos stadium and other design-build bridges, tilt-up and commercial concrete building structures.

About Jason Weiss (OSU):

Jason Weiss is the Edwards Distinguished Chair in Engineering. Before joining Oregon State as the Head of the School of Civil and Construction Engineering (2015-2020) he was a faculty member at Purdue University for over 16 years where he held the position of the Jack and Kay Hockema Professor of Civil Engineering and Director of the Pankow Materials Laboratory. He earned a B.A.E. from the Pennsylvania State University and a MS and PhD from Northwestern University in 1997 and 1999 respectively. He is actively involved in research on cement and concrete materials specifically focused on early age property development, cracking, transport in concrete, and concrete durability. Specifically, he is known for research his group has performed in the areas of shrinkage and cracking reduction, the use of the ring and dual ring test, use of electrical resistivity and the formation factor, salt damage and oxychloride, use of internally cured concrete, and concrete pavement durability.

Dr. Weiss has taught courses in civil engineering materials, concrete materials, service life, building envelopes, repair and non-destructive testing. His primary research interests are in the area of early age shrinkage cracking and mitigation as well as service life sensing and prediction.

He is also a primary author of the durability tests for the Performance Engineered Mixtures/Performance Related Specifications programs underway at FHWA. He is currently the Editor-in-Chief of the American Concrete Institute's Journal of Materials, Associate Editor of the Transportation Research Record, and is the former editor in chief of the ASTM journal of Advances in Civil Engineering Materials and the RILEM journal Materials and Structures.

Dr. Weiss has authored over 425 publications with over 225 peer-reviewed journal articles. He is recipient of the NSF Career Award, the RILEM L'Hermite Medal, the ACI W. P. Moore, ACI Young Member, ACI Philleo, and ACI Wason Best Paper Award, ACI Arthur Anderson Award, the ESCSI Erskine Award, the TRB Burgraff, AFN040 section award, and Mather Awards for outstanding research and publications, the ACPA Knutson award, and the ASCE Huber Award. He is a fellow of ACI and RILEM and is also the recipient of the Wansik, Munson, Buck, and Burke award for outstanding teaching/advising in the School of Engineering, the Potter award for outstanding teaching in the College of Engineering, the University Murphy Award for undergraduate teaching, and has been inducted into the Purdue Teaching Academy.