

May 2024



May 2024 Equilibrium

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Seattle Chapter's May Dinner Meeting :

Generational Roundtable, Structural Engineering Past, Present, and Future

Date: Thursday, May 30, 2024

Time: 5:30 - 8:00 PM

Location: Center for Architecture & Design

1010 Western Ave, Seattle, WA 98104

Event Agenda:

5:00pm – 5:30pm Registration/Networking
5:30pm – 5:40pm Welcome/Announcements
5:40pm – 7:00pm Panel Discussion
7:00pm – 7:45pm Socializing with Panelists

Registration Fees (includes appetizers and refreshments):

- Students: \$25
- SEAW Member -\$45
- Non-Members - \$65

Join us for a discussion of structural engineering with a panel of engineers at different stages of their careers from the Seattle area. From the days of slide-rules and log-tables, through the turmoil of COVID, to the next decade and beyond, we invite our panel to discuss how they got here and where they see the profession going.

Register Today!

Panelists:

Paolo Bourdeau (MKA)

Paolo is a design engineer at Magnusson Klemencic Associates with 3 years of experience focused on new and existing office structures. His technical interests include steel design and resiliency. Originally from Port-au-Prince, Haiti, Paolo attended the University at Buffalo where he graduated with his Master of Science in Civil Engineering. Paolo strives to become an active and impactful member of project design teams and looks forward to sharing his experiences thus far in the structural engineering industry.



Emily Carlip, PE, SE (Holmes)

As an Associate Principal with Holmes, Emily is driven to deliver equitable community sports facilities. Emily has led the structural engineering on the Seattle Storm Center for Basketball Performance and the University of Washington's ICA Basketball Training Facility. Originally from Los Angeles, Emily studied at Cal Poly San Luis Obispo before obtaining her graduate degree from the University of Washington. Beyond her projects, Emily participates in Holmes' DEI Action Group, coaches younger engineers, and broadens access to the profession via the ACE Mentor Program of Seattle Women in Engineering committee.



Owen Kohashi, PE, SE (Seattle City Light)

Owen is the Structural Engineering Supervisor at Seattle City Light and the Interim Civil & Mechanical Engineering Manager. The Structural Engineering Group performs structural and civil engineering design for many teams throughout the utility to ensure the safety of SCL's hydroelectric dams, powerhouses, transmission lines, distribution infrastructure, substations, and facilities. Owen has been at SCL for 13 years and prior to that worked in building consulting structural engineering for 20 years. He is currently the SEAW Seattle Chapter Vice President and the SEAW State Board Treasurer.



Marjorie Lund, PE, SE

Marjorie has been practicing structural engineering for 46 years, including managing mega projects at large firms and founding her own company. Marjorie is currently a board member for the Board of Registration for Professional Engineers and Land Surveyors. She works on the structural licensing exam at a national level and is actively maintaining the quality of our state's professional licensing. After navigating a near half-century of changes in codes, materials, and technology, Marjorie's perspective of the workplace has evolved from the career she envisioned as a new grad.



SEAW SW Chapter Rainiers Baseball Game

Date: Wednesday, June 5, 2024

Time: 6:05pm

Location: Cheney Stadium -
2502 S Tyler St, Tacoma, WA 98405

Price: \$35 per ticket
(includes dinner and drinks)



Register Today!

Join us as we cheer on our Tacoma Rainiers as they face the Reno Aces! We have reserved the 3rd base side party deck and we'll have dinner and plenty of drinks and snacks too. Please note that there is limited space so sign up early! Hope to see you there!

SEAW/ASCE Meeting Details King County Tunneling Project

By Doug McArthur, Seattle Chapter

Last month, the SEAW Seattle chapter cohosted their meeting with the ASCE Seattle section. It was a great night at Ivar's restaurant on the Seattle waterfront socializing and hearing about the Ship Canal Water Quality Project by Keith Ward of Seattle Public Utilities. Keith is the project executive spearheading the \$650 million megaproject along with the King County Wastewater Treatment Division. The project is expected to be completed in 2027 and includes an underground storage tunnel to significantly reduce the

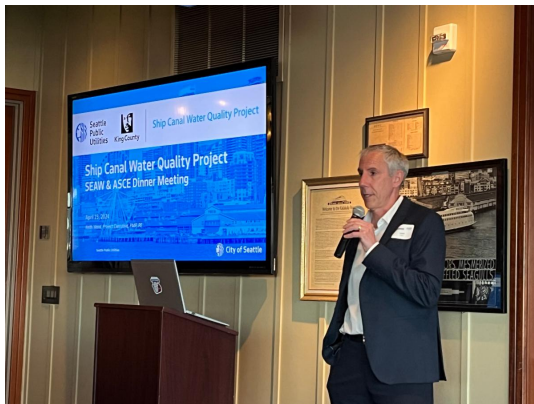
amount of polluted stormwater and sewage that flows into the Lake Washington Ship Canal, Salmon Bay, and Lake Union from our sewer system.

The project began planning in 2014 and started construction in 2019. After some challenges during the pandemic, the Tunnel Boring Machine (TBM), nicknamed “Mud Honey,” began its 2.7-mile journey, creating an 18-foot-10-inch diameter tunnel from Ballard to Wallingford. In addition to the 29-million-gallon storage tunnel, this project includes multiple conveyance structures, an 80-foot-tall pump station in Ballard, and an 8-foot-diameter tunnel underneath the ship canal connecting Queen Anne stormwater and sewage to the system.

The presentation detailed the many challenges faced by the design team led by Delve Underground from Seattle. One of the first was developing a more cost-effective method of constructing the Ballard drop shaft with deeper slurry walls than required. This allowed the 14-foot-thick slab at the bottom of the shaft to be installed more efficiently with less impact from the adjacent groundwater. Another hard challenge (literally) hit the project when the Mud Honey TBM encountered what the project team called the “Megaboulder” in April 2022. This 12-foot boulder temporarily stopped tunneling and required repair and replacement of some cutter heads, which was not easy while under 70-feet of water pressure.

While the project is not over yet, Keith mentioned some of the challenges and lessons learned that come with a project of this size. That included the complexities of coordinating a project with active construction in five neighborhoods at the same time, creating accurate cost and schedule estimates that were greatly affected by the pandemic, and working in areas with old and unknown infrastructure.

Lastly, we heard about the importance of the project team creating a meaningful team culture which allowed them to develop great relationships and focus on the key principles of the project. Overall, this project will be a great benefit to our city and the critical waterways that contribute to a healthy environment while maintaining our public infrastructure.



Keith Ward from Seattle Public Utilities presents to the combined SEAW and ASCE meeting in April. Photo by Doug McArthur.



“Mud Honey” is a tunnel boring machine which made a nearly 19-foot hole for 2.7 miles underneath multiple Seattle neighborhoods. Photo courtesy Keith Ward.

SEAW/AIA/CSI Experience the New 7 Seas Brewing

By Leah Cate, Southwest Chapter



Attendees at the SEAW SW chapter meeting in April got a first-hand look at the beautiful architecture and structure of the new 7 Seas Brewing location in Gig Harbor. Photo by Evan Olszko.

SEAW Southwest joined with AIA SWW and CSI Mt Rainier at 7 Seas Brewing in Gig Harbor for our yearly combined meeting in April. The social gathering and tour of newly opened 7 Seas Brewing was well attended with around 60 participants. The weather was perfect and those in attendance had plenty to talk about. Thank you to Steffany Touhy and Ben Ferguson from Ferguson Architecture, plus Ryan Reichman from Swenson Say Fagét, who shared information about the finished project.

The building structure is nestled in a beautiful location, boasting waterfront scenery and views of Mt. Rainier. To make the vision of this building a reality, many hurdles were overcome, including the square foot limitation (6,000 square feet total was allowed), maximum height permitted, and land use permitting, which took several years. The steel ordinary moment frames and concrete-filled metal dovetail decking are left exposed to view, celebrating the structural components. The structure does a great job of blending into the residential transitional area and yet is beautiful in its simplicity and modern style. The project utilizes SIP panels for high energy efficiency and Thermory wood siding for warm accents. The building layout offers a mix of comfortable indoor and outdoor gathering spaces to relax while enjoying the view.

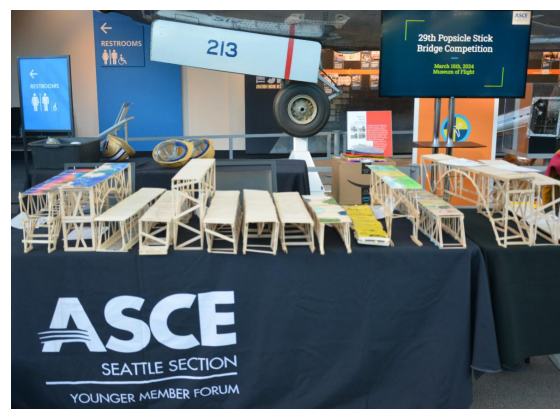
A special thanks to AIA SWW for hosting and for those that made this event a priority in their busy lives. Socializing with our friends and colleagues is always a great time. See you at the next event!

SEFW Supports the ASCE Popsicle Stick Bridge Competition

By Katie Bohocky

The Structural Engineers Foundation of Washington was pleased to support the [ASCE Seattle Section Younger Member Forum](#) who hosted its 29th annual [Popsicle Stick Bridge Competition](#) on March 16 at the Museum of Flight. This year, 14 student bridges and 2 corporate bridges were tested to failure. Twelve schools were represented, including the ACE Mentor Program. Prizes were awarded for aesthetics, efficiency, strength, and overall scores, as well as t-shirt design and teamwork. The strongest bridge was named The Trinity Project from O'Dea High School and held 215 pounds!

SEFW was pleased to sponsor the prizes for the



competition. As part of this sponsorship, Pete Barlow of the SEFW Board of Directors was invited to give a short presentation about SEFW, structural engineering, and his career. It was a fun event!

Sixteen total bridges were entered into 29th Annual ASCE Popsicle Stick Bridge Competition, which SEFW was able to help fund. Photo courtesy ASCE.

SEFW is always looking for opportunities to support outreach in our communities. If you have ideas of ways to bring structural engineering to students, community groups, or the public, please let us know by emailing admin@sefw.org.



SEFW supports the ASCE Popsicle Stick Bridge Competition to introduce Puget Sound students to structural engineering principles. Photo courtesy ASCE.

Calendar

May 23, 2024

Spokane Chapter Vendor Social, (@Dry Fly Distillery, Spokane, WA)

May 23, 2024, 5:30 PM

SEAW Seattle YMG Happy Hour, (@Lund Opsahl)

May 30, 2024, 5:30 PM

Seattle Chapter May Dinner Meeting, (@Center for Architecture and Design, Seattle, WA)

June 5, 2024, 6:05 PM

SEAW Southwest Chapter Social, (@Rainiers Baseball Game)

September 3-6, 2024

SEA Northwest Conference (@Hyatt Regency Portland at the Oregon Convention Center)

November 5-8, 2024

NCSEA Summit (@MGM Grand, Las Vegas, NV)

Employment Opportunities

Are you currently seeking employment as a structural engineer, senior manager, or a senior engineer technician? Check out our job board for [current employment opportunities](#).

Opportunities for Mid-level Structural Engineer and Senior Project Manager:

Seattle Structural is a downtown Seattle firm looking for qualified structural engineering professionals to join our talented team practicing across several different industries. Seattle Structural offers an excellent opportunity to work on a variety of public and private institutional, healthcare, educational, and commercial projects. Specialty areas include waterfront, scoreboards and large display systems, and construction support. We offer a competitive salary and a relaxed, collaborative work environment. Work is on-site in our Belltown office near the waterfront. Benefits include medical, transit reimbursement, and retirement matching. Seattle Structural is a firm that makes it easy to become personally invested in the achievements of your company.



Telecommuting or working from home is not compatible with our workflow and we will not consider your application if you are unable to be physically present in our office during regular business hours. This is a full-time on-premise employee offer only. Contract engineers and remote work will not be considered. Seattle Structural is an Equal Opportunity Employer.

We are filling two positions. Candidates must meet the following requirements:

- Mid-level Engineer: 5+ years' experience.
- Senior Project Manager: 10+ years' experience.
- BS or MS in Structural, Civil/Structural, or Architectural Engineering.
- Experience in steel and concrete buildings, aluminum structures, lateral analysis, deep foundations, and marine projects are desired.
- Working knowledge of CAD and Revit preferred.
- Strong emphasis on client service.
- Excellent communication skills.
- Strong technical skills.

To apply, please email a cover letter along with your resume which includes your professional references.

Please address inquiries to:

Lisa Wipplinger

Seattle Structural PS Inc.

3131 Elliott Avenue Suite 600A

Seattle, WA 98121

LWipplinger@SeattleStructural.com

Structural Engineer – Senior Project Manager Kirkland, WA

Structural Project Managers at Dibble Engineers, Inc. (DEI) are provided opportunities to enhance their management and leadership skills by training and mentoring junior staff. PMs are challenged to strive for their SE licensure, Team Lead and Associate-level positions, and are encouraged to assist in business development, client retention, and company growth initiatives.

Description and Details:

If you are a creative, proactive, and detail-oriented leader with the desire to manage your own projects from beginning to end, further advance client retention and referral strategies, and help grow our business, you could be a great fit for our learning culture. Our team works collaboratively to enhance the structural design and construction process; however, if you also enjoy mentoring and educating junior staff to build confidence in independent research of complicated engineering issues, we will provide you the chance to grow your leadership and people management skills. If you enjoy a good laugh and a fun working environment yet possess excellent technical skills and uncompromising work ethic and quality standards, we will highly value your contributions to our growing team.

Interested in joining us? Send your resume with cover letter to info@dibbleengineers.com

Apply Now!

Nursery Construction Project Coordinator, CPC3

**Company: Washington State Department of
Natural Resources**

Location: Tumwater, WA



**WASHINGTON STATE DEPARTMENT OF
NATURAL RESOURCES**

**Want to join something GREAT and make a
difference?**

This position is responsible for managing facilities and infrastructure construction projects for DNR's Webster Forest Nursery and Seed Programs. Webster is one of the premier state forest seedling nurseries in the country. Our staff has grown and shipped over 950 million seedlings since the nursery was established in 1957. These seedlings have been planted on public, private, and DNR-managed forest lands throughout Washington and nearby states. We have consistently invested in our infrastructure in the last 15 years and are now accelerating our efforts by undertaking numerous facilities maintenance, replacement, and expansion projects. This is a fantastic opportunity to support facility improvements for a highly functioning program that provides a critical public service into the next decade.

Apply Now!

Applying or Renewing your Membership in SEAW

SEAW is organized into the membership categories and their corresponding dues structures listed below. Select the membership category that best fits your status.

Your contact information is shared with our foundation, SEFW.
In order to “opt-out” please [contact](#) the association office. [Click here](#) for our privacy policy.

Join or Renew Today

Please consider making a line-item donation to [SEFW](#) as part of your dues renewal. Special designation can be placed on the donation, so it can be applied to scholarships, disaster preparedness or research opportunities. SEFW fulfills its mission with the assistance of donations from individuals and corporations. More information on SEFW and its mission to promote structural engineering can be found at www.sefw.org. Thank you for your support!

Structural Engineers Association of Washington

info@seaw.org | **206.338.7376** | www.seaw.org

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