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February 2024

February 2024 Equilibrium

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SEAW Seattle & WA ACI Chapter Joint Meeting:

WJE Presentation - Collapse Investigation of Champlain Towers South, Surfside, FL

Date: Tuesday, February 20th, 2024
Time: 5:45 - 7:45 PM

Location: Glendale Country Club
13440 Main Street
Bellevue, WA 98005

Registration Fees:
Early Bird Registration (through February 1, 2024)

- SEAW, ACI Members - $75
- Non-Members - $95

Register Today!

Network with your ACI colleagues at the joint meeting in February! SEAW Seattle held a webinar in March 2022 by Professor Dawn Lehman of UW, which provided a look at the initial investigations and theories of the cause of failure based on early evidence. This presentation by WJE reflects a more holistic investigation of the collapse and presents additional evidence. The presentation includes the history of the building, the various

design changes that occurred during its lifespan, analyses performed, and salvaged structural elements that helped WJE reach their conclusion. As a structural engineer, you do not want to miss this presentation!

Join us to welcome Dr. Matthew Fadden, Associate Principal, WJE, as he shares their forensic findings and outlines what led to the horrific collapse of at least half of the 136-unit structure.



Southwest Chapter Dinner Meeting

Date: Wednesday, February 28th, 2024
Time: 4:00 - 6:30 PM

Location: Basalite Concrete Products
3299 International Pl, DuPont WA 98327

Registration Fees:
- ASCE and SEAW Members - $5
- Non-member - $10
- Students or Retired - FREE

Guests are welcome

Agenda
4:00 - 5:00 pm Tour
5:00 - 6:30 pm Dinner and Presentation

Register Today!

- Carbon Reduction through Resilience in Masonry;
- Explain the concept of resilient building design;
- Describe the inherent attributes and advantages of concrete masonry construction for resilient design;
- Identify steps that can be taken to reduce GWP of concrete masonry wall systems;
- Comprehend the principles of carbon sequestration.

February Chapter Check-In

SEATTLE, by Jessica Jenness:

The Seattle Chapter presents the following report:

- **Programs Committee:** We're mid-year and in full-swing. Attendance at in-person meetings has been fantastic and we've had great feedback about the new venues we've tried. Be on the lookout for announcements of upcoming meetings and more new venues the next few months.
- **Younger Member Group:** Anand and the whole YMG board continue to exemplify great leadership. They organized the January dinner meeting and are currently coordinating more social events, as well as YMG meetings at local firms. Be sure to check out the January meeting recap article in this Equilibrium.

- **Mentoring Program:** The YMG approached the board with interest and examples of other SEAs around the country with strong mentor programs. A few board members have jumped in and said "Yes! How can we help?" We've had a few great discussions about how to set this program up for success. The YMG will be sending a survey out soon to identify an initial group of mentees. The board will help identify and pair them with mentors and pilot that group through Spring 2024 with hopes to increase participation by Fall. If you have any interest in either being a mentor or participating in the planning of this program, please email jessica.jenness@bnbuilders.com with subject line "SEAW Mentoring Interest."



The Seattle Chapter is starting a mentoring program. Please contact the Chapter leadership with interest in participating. Graphic from Washington State University.

SOUTHWEST, by Jared Plank:

The Southwest Chapter is excited to continue our programs into 2024! We just had a combined meeting

with CSI Mt. Rainier about Bryant Montessori School and had a great time. We are planning some great presentations and site visits for the rest of the 2023-2024 year.

We hope our members and guests will make it a priority to attend our events this new year. See below for some brief updates on what's going on with the Southwest Chapter and we hope to see you ALL at our next event!!

- **Next Event**: Feb 28th, Basalite Concete Products presentation and tour, a combined event with ASCE Tacoma-Olympia
- **Open Board Positions**: We have a handful of openings for next year on the board. Please reach out to Jared Plank or Evan Olszko if you are interested in serving on the board or helping with activities.

Lastly, mark your calendars for these future events:

- **Combined AIA SWW/CSI Event:** April 18th
- **End of Year Social Event Rainiers Baseball Game:** June 5th

Hoping your New Year's Resolutions included getting great technical content and social time with SEAW SW Chapter! This is a group that is worthy of prioritizing! Hope to see you at our next event!

2024 Proposed Bylaw Amendment for Review

The SEAW State Board of Directors (Board) is proposing revisions to Article X Amendments ofthe Bylaws. The main revision is about the total number of members required to approve proposed changes to the Bylaws, which is currently "2/3 of the current members in good standing." This language means that over 300 members would need to approve proposed changes. The Board has deemed this unrealistic and overly constrains SEAW from making future improvements or necessary changes to the bylaws.

The Board recommends approving this amendment.

Current Bylaw
Section 1.
Amendments to these bylaws may be initiated at any meeting of the Board and sent to the membership for review. At least twenty (20) days prior to balloting. Upon ratification by two-thirds (2/3) of the current members in good standing amendments will be considered ratified.

Proposed Bylaw
Section 1.
Amendments to these Bylaws may be proposed by a Board member. Proposed amendments shall be sent to the membership for review at least twenty (20) days prior to balloting. Upon approval by two-thirds (2/3) of the members voting, Amendments will be ratified and shall become effective immediately, or unless noted otherwise.

A voting ballot will be sent to all PE and SE members in good standing on February 12, 2024 and will be open for 10 days.

University Students Share Research, Experiences with Seattle Chapter

By Spencer Machinski (YMG Seattle University Liaison)

Seattle University was happy to host the Seattle Chapter's January dinner meeting and the chapter's 2024 Annual Student Showcase. There were four fantastic presentations showcasing the work that both graduate and undergraduate students are doing in the structural engineering field.

Presentations, in order of appearance:

- *Diablo Powerhouse Bridge Inspection Platform by Marc Abella, Edward Aurick Candra, Emmanuel Castellon, Jedd Concepcion, Ifrah Khalif, and Ella Scales*
- *Structures, Composites, and Additive Manufacturing: A Study into the Design and Development of Marine Energy Technology by Miguel González*
- *2024 SU ASCE Steel Bridge Design by Nicolas Chantorn, Helene Babalis, and Harold Nguyen*
- *Engineers in Action: University of Washington Chapter by Anna Klein and Sofia Lim*

The night began with a networking event set up to get facetime between design firms and students. There was a great student turnout and lots of interactions between companies and students. Following the network event, an hour-long dinner allowed for additional conversation. Additionally, the SEAW Seattle Chapter made some general announcements including nominations for board positions.

The first presentation was from six Seattle University seniors who have been working with Seattle City Light to design a under bridge inspection platform for one of the utility's bridges at the Diablo Powerhouse. They are designing a unique solution to solve the accessibility issue as the bridge spans above the dam's outflow.

Miguel González, a PhD candidate from the University of Washington, next presented on his six years' effort in researching bend-twist coupling to increase structural performance of open-source marine turbine blades. His work directly contributed to a weight savings of ~50% compared to traditionally designed turbine blades.

Next, three members of Seattle University's Student Steel Bridge Competition presented on their design process and next steps to get the team ready for competition in the spring. They spoke of the challenges of continuing the resurrection of the school's bridge team post-COVID.

The final presentation of the night was from the UW's Engineers in Action. Born from the Bridges to Prosperity program, Engineers in Action partners with colleges to build pedestrian bridges in rural communities abroad. Students get hands on experience with bridge design, project management, and construction. The UW chapter is a new chapter and it is looking for industry mentors; if you are interested, please connect with them at eiabridges@uw.com.

Thank you to everyone who came out and supported the next wave of structural engineers. It was great to hear from the students about the great work they are doing in school!



Students and professionals were able to connect during dinner before the Student Showcase presentations. Photo courtesy Spencer Machinski.



Miguel Gonzalez from the University of Washington presents his research on structural performance of marine turbine blades. Photo courtesy Spencer Machinski.

Project Team Presents Bryant Montessori Project to SEAW Southwest Chapter

By Evan Olszko (SEAW SW)

Thank you to all who joined the SEAW SW Chapter and CSI Mt. Rainier Chapter joint dinner meeting on January 11th.

Attendees arrived at the meeting only to discover each name tag had someone else's name on them. This was CSI's creative plan for a fun ice breaker, encouraging every attendee to meet folks and socialize before introducing the other person to the group (it was great to meet you, David!). After getting to know the South Sound professionals a little better and enjoying a dinner catered by the staff at the Tacoma La Quinta Inn, the attendees were treated to a presentation on Bryant Montessori School. Attendees heard from several perspectives about what made this project unique, challenging, and successful.

Brian Ho, Principal at TCF Architecture, and Steve Wachtler, Principal/PM at TCF Architecture, started things off with an overview of the project site, challenges, and client needs for the project. The building being replaced was an aging 1960s building in Tacoma's Hilltop area on a site with 10 feet of grade difference from one corner to the other and limited site access. Because of the limited access, no on-site parking, and narrow neighborhood streets, daily school drop off and pick up created congestion in and around the school, with parents and buses often in or crossing the right of way.

Next, Jim Dougan, Program Manager with Parametrix and Owner's Rep for Tacoma Public Schools, discussed the Progressive Design Build experience from the owner side. Jim went through the differences of PDB as compared to Design Bid Build, GC/CM, and Traditional Design Build delivery methods. He emphasized several key benefits of the PDB delivery method, including removing project risk from the owner, faster overall project delivery, and better project cost control. TPS has been using this delivery method to successfully complete projects on budget for years, both before and during the recent periods of higher project cost variability. This project is turning into another success with a $37M budget from 2020 bond dollars.

After Jim, Margot vanSwearingen, Project Executive with Skanska, went over the PDB experience for this project from the perspective of a general contractor. Margot began her talk with specifications, noting that they are initially very limited up to an early GMP at 60% design. Keeping limited specifications early allows for opportunities for diverse partners and gives the contractor the ability to guide the project to improve performance, material availability, cost, and constructability. This is what ultimately led the team to select the structural system for the project. In particular, a lack of available skilled union carpenters led the team to pursue cold-form steel ("CFS") vertical and lateral systems. Skanska was able to self-perform much of the construction, saving the project substantially on schedule and construction costs.

Brian and Steve from TCF then covered the design team response to the site and project constraints as well as the needs from TPS and the school. The team chose an "L"-shaped layout with an entry on the high end of the sloping site. This allows the staff to have maximum visibility to supervise during school hours. The team was also able to add dedicated parking and drop-off areas, as well as relocate a much-loved school garden area to a better and more connected location for the students. The exterior of the building uses a subdued color palette and draws from residential forms but includes bay windows to create visual interest. Inside, the design emphasizes natural materials and small group gathering areas while allowing for views out to the neighborhood and school grounds.

Finally, Georgi Stefanov, Structural Engineer/PM with PCS Structural Solutions, rounded out the presentation by covering the structural approach. Georgi discussed some of the factors that led the team to choose the CFS vertical and lateral structural system, including the lack of union carpenters, the ability to frame in wet weather without issue, the resulting true/plumb structure, and the increased speed of construction for the system. In addition to CFS bearing walls with wood sheathing, the project utilized pre-engineered light-gauge trusses with plywood sheathing on the floors and concrete topping for durability. The roof was framed with wood I-Joists and plywood sheathing. The resulting structure is the first two-story school constructed using CFS as the main gravity and lateral system in Washington and perhaps in the Pacific Northwest. Due to the limitations of CFS, the team still used some wood and steel elements in select locations. In addition, the team spent a large amount of time coordinating models for every stud to determine conflicts early and allow for panelized wall construction.

Overall, it was a great presentation showcasing the benefits of collaboration associated with the Progressive Design Build process and what can be achieved with a supportive team. Congratulations to the entire team and to Tacoma Public Schools for a successful project!



Georgi Stefanov from PCS Structural Solutions presents the Bryant Montessori School project to attendees from SEAW SW & CSI at the combined meeting January 11. Photo courtesy Evan Olszko.



The Bryant Montessori School, which recently topped out, was the subject of the combined SEAW SW & CSI meeting in January. Photo courtesy PCS Structural Solutions.

Save the Date!
2024 SEAOC Convention and SEANW Conference



2024 SEAOC Convention and SEANW Conference

Sept. 4-7, 2024
Hyatt Regency at the Oregon Convention Center
Portland, Oregon

SEAOC, the SEAOC Convention Committee, and the Pacific Northwest structural engineering associations are happy to announce that both the SEAOC Convention and the SEA Northwest Conference will be Sept. 4-7 at the Hyatt Regency at the Oregon Convention Center in Portland. This year, California state's Convention Committee is made up of individuals from SEAONC, or the Northern California association, and they are joining forces with the Northwest Conference Committee, made up of individuals from SEAO. This will be SEAOC's first-ever convention in Portland. 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.**

Please take note of these key dates:

- The call for Program Abstracts was until 1/16/2024; 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

We hope to see you then!



The 2024 Northwest Conference will be held in partnership with the SEAOC Convention, together at the Hyatt Regency at the Oregon Convention Center in Portland. Photo from TripAdvisor.

SEAW Seattle Chapter 2024 Nominating Committee

By Darrell Staaleson

A few years ago, I had the privilege to tour the United States Military Academy at West Point in New York state – the first engineer college in the United States. Standing at the overlook, we learned about the Great Chain across the Hudson River. We watched the Bayonet Drill Team present. We paid our respects at the West Point Cemetery. Standing there and remembering the stories I've heard from veterans of WWII, Vietnam, and Desert Storm, I realized I was looking at the memorial for General Stormin' Norman Schwarzkopf – and all around everywhere the memory of Citizens who were guardians and leaders of our Great Republic who answered the Call of Duty.

That evening we had a wonderful supper at the Thayer Hotel. Afterward, we sat on the balcony overlooking the Hudson River with a full moon reflecting off the water. Not so long ago, British War Ships tried (and failed) to make their way up the Hudson into the heart of America. Our conversation on that balmy autumn evening was only interrupted by the call of the whippoorwills and my brother-in-law slurping a tumbler of "Armored Diesel" – General Patton's favorite drink.



Learn more about General Schwarkzopf on What it Takes on Apple Podcasts.

General Stormin' Norman Schwarzkopf said "*There's nothing wrong with being afraid. And true courage is not not being afraid. True courage is being afraid, and going ahead and doing your job anyhow, that's what courage is.*"

ANNOUNCEMENT:
In accordance with our Bylaws, the Seattle Chapter Nominating Committee was formed by the Seattle Chapter President, Jessica Jenness. Darrell Staaleson was asked to serve as Chair. The Committee is composed of five to eight member SEs per our bylaws.

Committee Members:
Darrell Staaleson, Seattle Chapter Past-President (chair)

Chun Lau, Seattle Chapter Past-President

Tyler Winkley, Seattle Chapter Past-President

Mike Visser, Seattle Chapter Past-President

Peter Somers, Seattle Chapter Past-President

Shalini Prochazka, Seattle Chapter Past-President

Jessica Jenness, Seattle Chapter President (ex officio)

PURPOSE:
Select nominees for SEAW Seattle Chapter Leadership for recommendation to the membership.

PROCESS:
In accordance with our Bylaws and tradition, Darrell Staaleson, Chair, presented the Nominating Committee to the members present during the January 2024 Student Showcase Meeting at Seattle University on Thursday, January 25. Darrell gave a summary of the Nominating Committee's process and purpose to the membership in order to help increase awareness of how SEAW Seattle Chapter works. SE members attending were asked to make nominations for SE members to serve on the Nominating Committee. SE members attending were then asked to make nominations for leadership from the floor for the Nominating Committee to consider. There were no nominations for either.

The Nominating Committee for the Seattle Chapter will meet in February to develop a slate of candidates for Chapter Vice President and two board members.

Officer: The Committee will select candidates from among those who have actively served on the Board of Directors and have a good working knowledge of SEAW and recognized leadership skills.

Board of Directors: The Nominating Committee works to select members for the Board of Directors from a diverse cross section of our industry. We look closely at leaders coming from YMG.

BENEFITS:
Benefits of service and leadership in SEAW:

The State Board considers service in leadership in SEAW to be valuable part of our required profession development in Washington state.

Participation allows individuals to interact and develop friendships with fellow engineers in the Seattle area, Pacific Northwest, and across the country.

Board service brings experience in public speaking, running effective meetings, and presenting proposals, which can make an individual more valuable to clients and employers.

And what participants experience can be seen as invaluable – becoming part of our honored tradition of service in the structural engineering profession.

Register for WAsafe Building Safety Evaluation Classes

By Joyce Lem

We in the Pacific Northwest live with the looming risk of "The Big One," a catastrophic earthquake, and we see wildfires and flooding every year. To be ready to respond following a major natural disaster, the WAsafe Coalition was formed. WAsafe is the Washington State program that organizes and trains a cadre of engineers, architects, and other construction industry professionals so they can assist local jurisdictions in determining whether buildings are safe enough to occupy following a major disaster.

You can assist building officials assess their building stock and help your community by joining the WAsafe registry. In order to join, you can learn how to do post-disaster building safety evaluations by taking one of several WAsafe Building Safety Evaluation (ATC 20/45 Plus) classes offered in March:



After the 2001 Nisqually Earthquake, the Cadillac Hotel in Seattle (pictured) required appropriate building evaluations. To help with the next major seismic event, join WAsafe today. Photo courtesy City of Seattle.

In-person, full-day WAsafe BSE classes:

- March 15: Kennewick, WA. Register here for this class, taught by Jon Siu and Paul Brallier, sponsored by SEAW. Eligible for 7.5 PDHs.
- March 28: Lynnwood, WA. See the general information webpage WABO-AEI for the Annual Education Institute (AEI) of the Washington Association of Building Officials. Use the "Schedule" link on the webpage and navigate to March 28.

Online WAsafe BSE class, split into two half-days:

- March 5 & 6. The Seattle Chapter of the American Institute of Architects is planning to hold a WAsafe training. For details, go to AIA-Seattle.

Other classes and opportunities:

- Online Refresher course: If you're already a member of WAsafe, your enrollment expires five years after your last training. See your ID badge for the expiration date. Please take the online Refresher training within 12 months after your WAsafe enrollment expires. For more details and to register, use this link: Refresher.

- WAsafe BSE - Teacher Training session: If you are interested in joining our team of instructors, please email Joyce Lem at joyce.seaw@wasafecoalition.org for more information. This will be an all-day, in-person session on March 8.

For more about the WAsafe program, visit the website: wasafecoalition.org.

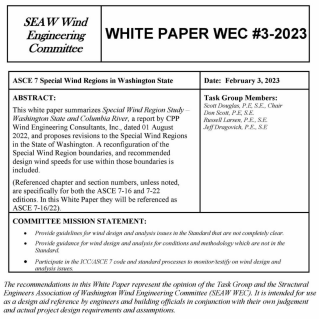
SEAW is a key member of the WAsafe Coalition. If you have any questions about the Disaster Prep/Response Committee or the WAsafe program, please send an email to joyce.seaw@wasafecoalition.org

White Paper Submitted to WSBCC for Adoption

By Scott Douglas, Wind Committee

The Wind Engineering Committee submits the following report for the February Equilibrium:

- State of Washington Special Wind Regions (SWR) – The recommendations in White Paper WEC #3-2023 have been submitted to the Washington State Building Code Council for adoption as an amendment to the Washington State Building Code. These recommendations for Washington will also be submitted to the ASCE 7-28 Subcommittee on Wind Loads for balloting. SWR recommendations for Oregon and California will be submitted as separate ASCE 7-28 ballots by their respective State SEA Wind Engineering Committees.



SEAW Wind Engineering Committee	**WHITE PAPER WEC #3-2023**
ASCE 7 Special Wind Regions in Washington State	**Date: February 3, 2023**
ABSTRACT: This white paper summarizes *Special Wind Region Study – Washington State and Columbia River*, a report by CPP Wind Engineering Consultants, Inc., dated 01 August 2022, and proposes revisions to the Special Wind Regions in the State of Washington. A reconfiguration of the Special Wind Region boundaries, and recommended design wind speeds for use within those boundaries is included. (Referenced chapter and section numbers, unless noted, are specifically for both the ASCE 7-16 and 7-22 editions. In this White Paper they will be referenced as ASCE 7-16/22).	**Task Group Members:** *Scott Douglas, P.E, S.E., Chair; Don Scott, P.E., S.E.; Russell Larsen, P.E., S.E.; Jeff Dragovich, P.E., S.E.*
COMMITTEE MISSION STATEMENT: • *Provide guidelines for wind design and analysis issues in the Standard that are not completely clear.* • *Provide guidance for wind design and analysis for conditions and methodology which are not in the Standard.* • *Participate in the ICC/ASCE 7 code and standard processes to monitor/testify on wind design and analysis issues.*	

The recommendations in this White Paper represent the opinion of the Task Group and the Structural Engineers Association of Washington Wind Engineering Committee (SEAW WEC). It is intended for use as a design aid reference by engineers and building officials in conjunction with their own judgement and actual project design requirements and assumptions.

"ASCE 7 Special Wind Regions in Washington State," authored by the SEAW Wind Committee in February 2023, is available on the SEAW website.

- Update to the 2004 SEAW commentary on wind code provisions (ATC 60) – Work continues on this effort by the NCSEA CAC Wind Engineering Subcommittee. There is a December 31, 2024 deadline for submittal to the NCSEA Publication Committee. Several SEAW WEC Members are involved in this Commentary revision.
- City of Bellevue Kzt Map – Work continues on the Kzt Wind Load Factor map for the City of Bellevue's consideration. It will replicate the existing City of Seattle Wind Load Factor Map found at Wind Load Factors at the SDCI website. If adopted, the map will facilitate an alternate conservative method for rapid determination of Kzt factors and shoreline exposure in the City of Bellevue.
- Participation – All SEAW members, whatever their experience, are encouraged to participate in WEC meetings. Please contact the WEC chair Scott Douglas at sdouglasscott@gmail.com to join the SEAW WEC and receive additional information and announcements on Committee activities and actions.

Next Meeting – Friday February 16, 2023, from 12 to 1 PM.

Meeting will be virtual via the following Zoom link:
https://us02web.zoom.us/j/89577690532?pwd=c1l0OXowVXRNVndZYjduTFRTckFTZz09

Passcode: 924784

SEFW New Leadership, New Year

By Angela Gottula Twining

In January, the Structural Engineers Foundation of Washington held its Annual Meeting, as decreed by the Articles of Incorporation and Bylaws, to confirm the Board of Directors terms and leadership for the year. All Board members are continuing their service, and Jhon Paul Smith from Seattle University has been added as a new Board member. The leadership presented and approved are Melissa Verwest (KnifeRiver Prestress) as Chair, Peter Somers (Magnusson Klemencic Associates) and Herb Ahten (Verco Decking) as Vice Chairs, and Cale Ash (Degenkolb) as Secretary/Treasurer.



Melissa Verwest, Chair



Peter Somers, Vice Chair



Herb Ahten, Vice Chair



Cale Ash, Secretary/Treasurer

The 2024 Leadership of SEFW. Images courtesy SEFW.

SEFW would like to extend a resounding word of gratitude to Ted Smith, retired from Smith & Huston, for his incredible support as Secretary/Treasurer since the founding of SEFW in 2010. Ted has been meticulous and thoughtful with the SEFW funds since inception, ensuring proper stewardship, investment, and transparency. Thank you Ted for all your years of service!

Also at the Annual Meeting, the Board discussed the successes for 2023, such as:

- Supporting outreach to K-12 students with the Mead School District popsicle stick bridge competition
- Supporting outreach to 9-12 students with the ASCE popsicle stick bridge competition
- Supporting the SEAW scholarship program and new diversity and equity scholarship program
- Supporting structural engineering students from the ACE Mentor Program
- Supporting SEAW members attending the Northwest Conference
- Holding a successful Fall Forum which reached 250+ individuals, including high school and college students and attendees from various industries in addition to A/E/C.
- The generous legacy donation from Cap Pearson to the SEFW scholarship fund.

The Board is excited about new efforts in 2024, including a renewed focus on social media presence and a formalized legacy giving program.

Additionally, SEFW is finalizing plans for an administrative transition, and more information on that will be available soon.

Anyone with any feedback on SEFW's mission and ideas for 2024, please contact us at admin@sefw.org. Have a great 2024!

Calendar

February 16, 2024, 12 - 1 PM
Wind Engineering Committee, *(@Zoom)*

February 20, 2024, 5:45 PM
SEAW Seattle Chapter and WA ACI Joint Meeting, *(@Glendale Country Club)*

February 28, 2024, 4 -5 PM
SEAW Southwest Chapter Meeting, *(@Basalite Concrete Products)*

March 5-6, 15, 28, 2024
WAsafe Classes, *(see Equilibrium article for details)*

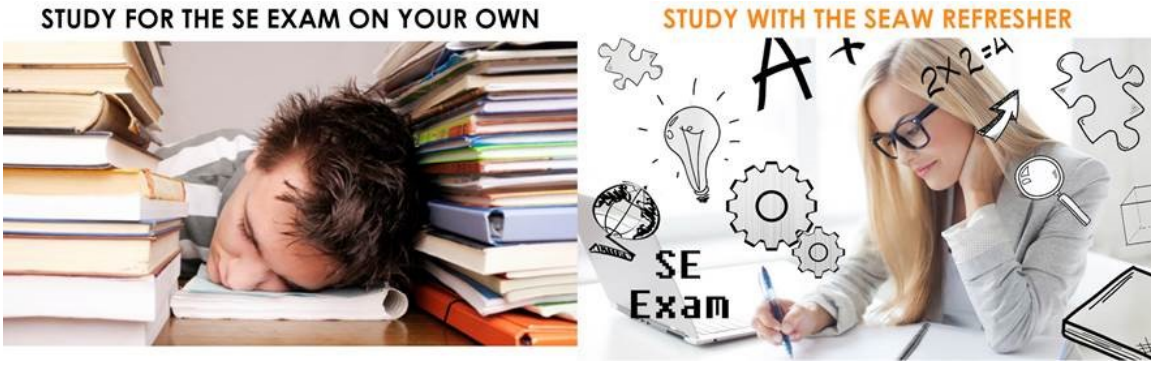
April 18, 2024
SEAW Southwest combined meeting with AIA SWW and CSI, *(TBA)*

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)*

SEAW 2024 Refresher Course



Date:
February 6 -March 26, 2024

Time: 6:30-8:30 PM

Webinar Access:
GoToMeeting

Registration Fees:
- SEAW & SEAO Members - $350
- Non-Members - $425

Notes Only:
- SEAW & SEAO Members - $150
- Non-Members - $200

Register Now!

SEAW will hold its annual Refresher Course on Tuesday and Thursday evenings from February 6th through March 26th.

The course instruction and PDF notes are designed to assist engineers preparing for the NCEES Structural Exam and for practicing engineers who want to review principles of structural engineering. Fifteen two-hour lectures will present information regarding Structural Analysis, Wind Design, Foundations & Earth Retaining Structures, Seismic Design I & II, Structural Steel Design I & II, Concrete Design I & II, Pre-stressed/Post-tensioned Concrete Design, Bridge Design I & II, Wood Design, Masonry Design, and Cold-Formed Steel Design.

Course presentations are exclusively offered online through GoToMeeting.

We would like to welcome Oregon SEAO members for the seventh year. SEAO Members may register at SEAW member pricing.

For those unable to attend the course, complete course notes of the most recent course are available via a download link for easy access at a price of $150 for SEAW members, and $200 for all others.

Course Schedule

Tuesday, February 6
Introduction & Analysis
Bruce Erickson, P.E., S.E.
KPFF Consulting Engineers

———

Tuesday, February 13
Structural Steel Design I
Mathew Wies, P.E., S.E.
DCI Engineers

———

Tuesday, February 20
Bridge Design I
Josh Pruitt, P.E., S.E.
KPFF Consulting Engineers

———

Tuesday, February 27
Seismic Design I
Mike Visser, P.E., S.E.
Visser Engineering

———

Tuesday, March 5
Concrete Design I
Alex Wiley, P.E., S.E.
Magnusson Klemencic Associates

———

Tuesday, March 12
Prestressed Concrete Design
Ron Mirahsani, P.E., S.E.
CKC Structural Engineers

———

Tuesday, March 19
Masonry Design
John Hochwalt, P.E., S.E.
KPFF Consulting Engineers

———

Tuesday, March 26
Cold-Formed Steel Design
Chris LeVan, PE SE
KPFF Consulting Engineers Inc.

Thursday, February 8
Wind Design
Russell Larsen, P.E., S.E.
Magnusson Klemencic Association

———

Thursday, February 15
Structural Steel Design II
Mathew Wies, P.E., S.E.
DCI Engineers

———

Thursday, February 22
Bridge Design II
Josh Pruitt, P.E., S.E.
KPFF Consulting Engineers

———

Thursday, February 29
Seismic Design II
Mike Visser, P.E., S.E.
Visser Engineering

———

Thursday, March 7
Concrete Design II
Alex Wiley, P.E., S.E.
Magnusson Klemencic Associates

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Thursday, March 14
Wood Design
Dick Hemmen, P.E., S.E.
DCI Engineers

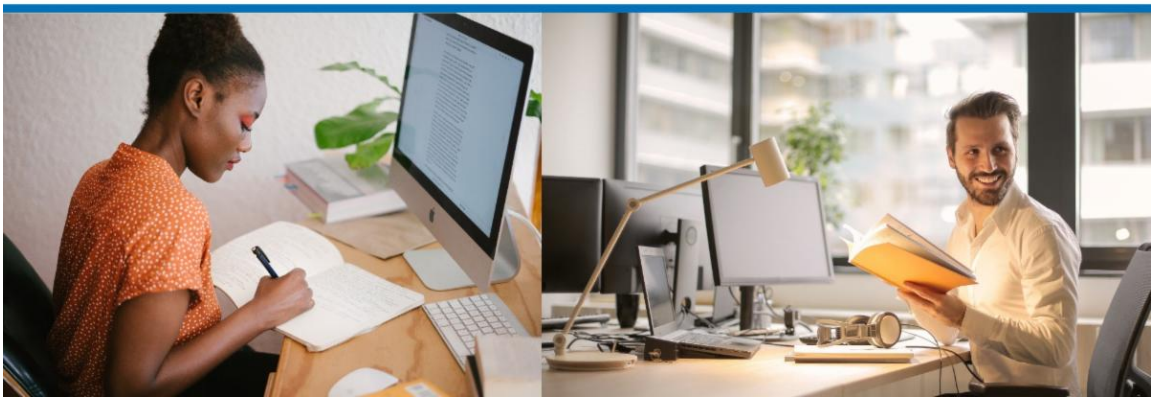
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Thursday, March 21
Foundations & Earth Retaining Structures (pre-recorded)
Andrew McGlenn P.E., S.E.
Jacobs Associates

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Register Now!

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Welcome New SEAW Members!



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Lund Opsahl
Associate – Seattle Chapter

Madeline Phillips
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Mohammed Turkmen
CKC Structural Engineers
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Drew Hopkins
GLR Engineers
PE – Spokane Chapter

Riley Stauffer
Brienen Structural Engineers
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Spencer Machinski
WSP
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Davis Wright
CKC
Associate – Seattle Chapter

Natalie Rogers
University of Washington
Student – Seattle Chapter

Jack Fontaine
WSP USA
SE – Seattle Chapter

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**.

Senior Structural Plan Engineer
Company: City of Seattle Department of Construction and Inspections (SDCI)
Location: Seattle, WA

City of Seattle

The Seattle Department of Construction and Inspections (SDCI) Engineering Services Division is hiring a Senior Structural Plans Engineer (Sr. SPE) to serve as part of our dynamic Unreinforced Masonry (URM) Program Subject Matter Expert (SME) team. This URM-focused Sr. SPE will serve as the primary technical resource, working with the URM Program Manager, for the development and implementation of a mandatory URM retrofit program. This program is currently in development and the successful candidate will play a primary role in the shaping of permit, plan review, and compliance processes. The anticipated impact of this program will be a milestone in Seattle's pathway to earthquake resilience, culminating in a mandatory URM retrofit program, the first of such program outside of California.

This Sr. SPE position is part of SDCI's Ordinance and Structural (O/S) review team. The successful candidate will also be participating and fulfilling the job responsibilities of a Senior Structural Plans Engineer including plan review and other related tasks. Please visit http://www.seattle.gov/jobs for more information and to apply. The position will remain open until filled.

Apply Now!

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Your contact information is shared with our foundation, SEFW.
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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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