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Reminder: Please pay your dues!

appreciate if you please pay it as soon as possible.

Please also verify your membership level and let us know if it should be corrected. The primary levels are:

- Member SE
- Member PE
- Associate non-licensed
- Student
- Affiliate industry partners

If you did not receive the invoice or need to correct your membership level, please email info@seaw.org.

Seattle February Dinner Meeting



Patrick Lindblom Seattle Chapter

Date: February 26, 2025 **Time:** 5:30-7:45 PM PT

Location: Ivar's Acres of Clams, 1001 Alaskan Wy, Ste. 102, Seattle, WA 98104

View on map

Have you heard about the newly published ACI 323-24 Low-Carbon Concrete Code and the new Sustainability and Resilience Appendix in ACI 318-25? Join us over dinner to learn about these two new exciting codes from people that were instrumental in their development. You'll also hear an overview of what is included in both codes and information about what adoption of each would mean for how you design and specify concrete.

We are fortunate to have two presenters who served on both the 323 Committee and 318 Sustainability Subcommittee: Nathan Forrest, PE, ENV S.P., and Shana Kelley, PE, SE.

Register Today!

Southwest Trade Show Meeting



Evan OlszkoSouthwest Chapter

Date: February 26, 2025 **Time:** 3:00-8:00 PM PT

Location: Emerald Queen Hotel & Casino, 5580 Pacific Hwy E, Fife, WA 98424

The SEAW Southwest Chapter invites you to join us for our annual trade show to benefit the SEAW SW scholarship foundation. The trade show provides an opportunity for professional engineers, architects, and those in the building construction industry to share and discover the latest in technology and design innovations. Visit the <u>SEAW Calendar Trade Show Event Page</u> for the latest information on the event program and speaker schedule.

The theme for the Trade Show seminars this year is *Code Updates*. Come hear from members of the ASCE 7 Subcommittees regarding ASCE 7-22, which is scheduled to be adopted in Washington State later this year:

- Snow Loads in ASCE 7-22 and Washington-proposed amendments
 - Presented by John F. Duntemann, P.E., S.E., Senior Principal at Wiss, Janney, Elstner Associates, Inc., and Chair of the ASCE 7-28 Rain and Snow Subcommittee
- ASCE 7-22 Flood Loads, Supplement 2 (currently planned for adoption in Washington alongside ASCE 7-22), ASCE 24-14 and the newly published ASCE 24-24 Flood Resistant Design and Construction.
 - Presented by Matt R. Gilbertson, P.E., S.E., Senior Technical Manager at Simpson Gumpertz & Heger, and a member of the ASCE 7-28 Flood Load Subcommittee

There will be raffle prizes throughout the trade show, including an Apple iPad! Attendees must be present to win raffle prizes.

Register Today!

FREE Attendee Registration through February 18, 2025

Sponsor Registration

Uncovered History Outlines Birth of SEAW in 1950



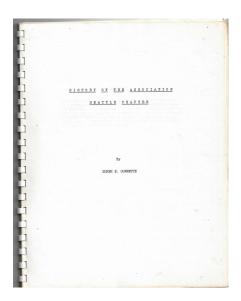
Scott Douglas Seattle Chapter

It's 2025, the 75th Anniversary of SEAW. This article is the first of continuing articles this year that will celebrate this milestone event in the Equilibrium.

The SEAW archives are currently sharing space in a self-storage facility with Smith & Huston materials. I met with Ted Smith and Ed Huston two weeks ago and brought home three boxes of potential SEAW historical information. This article will convey some brief history gleaned from those materials, in particular a fascinating 22-page *History of the Association Seattle Chapter* from 1949 to 1958 by Elmer E. Gunnette. One can read an excellent summary of early history on our SEAW Website History — SEAW. This article adds some additional information to that webpage.

The April 13, 1949, Olympia Earthquake resulted in numerous discussions and meetings among structural engineers. A year later, this led to acceptance by the Secretary of State on April 22, 1950, the Articles of Incorporation for the Structural Engineers Association of Washington. Homer Hadley was our first SEAW President, with \$25.00 yearly dues.

Permission was obtained by the Structural Engineers Association of California (founded in 1932) to use a similar seal (known by some as the "SEA tombstone"), so activities would appear to be emanating from a central organization, no matter what state it originated. The Structural Engineers Association of Oregon was established a couple months previously and did the same. This was a precursor to the NCSEA, established four decades later.



The cover of the SEAW history discovered among archive documents within the last month. Scan courtesy Scott Douglas.

In 1951, it was decided to extend invitations to Southwest Washington and Eastern Washington to establish chapters under the State Charter. The Spokane Chapter was formally started in 1953 with 20

members. Seattle Chapter's 1953 membership was 67 members.

In March of 1957, the first Pacific Northwest Structural Engineers Conference was held in Pullman, Washington. It was such a success that immediately the Seattle Chapter voted to co-sponsor such a conference annually, to alternate between WSU and the University of Washington. There was also a provision that eventually the Oregon Chapter might be included every third year.

This 75th Anniversary year the Northwest Conference will be in SpokaneSEA NW Conference — SEAW. The Spokane Chapter is planning to feature SEAW's 75th Anniversary over the two day conference including the Conference's social event.

Spokane Chapter's Emily Sackmann is chairing the SEAW State 75th Anniversary Planning Committee. Violeta Tihova and Lisette Terry are co-chairs of a Seattle area celebration event. Elmer Gunnett's History of the Association will be posted on the SEAW Website. For those wishing to write a 75th Anniversary related article for future issues of the Equilibrium please contact Scott Douglas at sdouglasscott@gmail.com.

Registration & Request for Abstracts for 2025 SEA NW Conference



Brian Parsons SEAW NWC



2025 SEA NW CONFERENCE

SEPTEMBER 25-26, 2025

DoubleTree by Hilton Spokane City Center | Spokane, WA

Registration is open for the 2025 SEA Northwest Conference! We look forward to seeing you all in Spokane! Please see the links below for early bird registration (25% discount) and hotel information. We are also excited to announce that CSi, Inc., will be hosting an unforgettable social event after the conference on Thursday evening that you won't want to miss! More information to come soon.

- Conference Website: https://www.seaw.org/sea-nw-conference-2025
- Registration: https://ami.jotform.com/243370837345157
- Hotel Information: https://www.hilton.com/en/attend-my-event/structuralengineeringassociationofwashington/

In addition to registration, the planning committee is also excited to announce our **Request for Abstracts**. Please submit information if you are interested in being a speaker. And please forward to anyone you think might be interested. All speakers receive free full conference registration and a \$500 travel/expense allowance.

• Request for Abstracts: https://app.smartsheet.com/b/form/435dbb8fc2324bd09f3324c2732b2ddc

Lastly, the NW Conference is also accepting applications for sponsorships and exhibitors. Please contact Matt Hoit at matt@hoitengineering.com for further information.

Become a SEAW Code Advisory Founding Member



Scott Douglas

Become a Founding Charter Member of SEAW's Newest Committee, the Code Advisory Committee! The CAC will replace SEAW's Snow Load Committee and address all loads and code related issues that do not involve other SEAW Committees, including SEAWs Earthquake Engineering, Wind Engineering, Existing Building, and Sustainable Design Committees. It will be similar in function to NCSEA's Code Advisory General Requirements Subcommittee (GRS).

CAC Initiatives will include:

- Consider a submission in conjunction with the NCSEA GRS for a code change proposal addressing guard loadings in over-crowded areas, similar to existing Australian/New Zealand, European, and Canadian codes.
- Provide input regarding snow load amendments to the Washington State Building Code.
- Review and input to NCSEA's General Requirement Subcommittee's work, including that on delegated design/deferred submittals, live loads, and trusses.

Kick-Off Meeting:

 All SEAW members, whatever their experience, are encouraged to become founding charter members of the SEAW CAC. Please contact the CAC temporary chair, Scott Douglas sdouglasscott@gmail.com, to join and receive additional information and announcements on Committee activities and actions and the first meeting agenda.

First Meeting – Tuesday February 25 from 12 to 1 PM. Meeting will be virtual via the following Zoom link: https://us02web.zoom.us/j/84793804502?pwd=kBuo0yHHiacW6baatyn9scftrb8Rvk.1

Meeting ID: 847 9380 4502 Passcode: 020058

Feedback Sought on Computer-Based SE Exam Testing



Jared Plank Southwest Chapter

The SEAW State Board wanted to give an update on concerns surrounding the new Computer Based Testing (CBT) for the Structural Engineer Exam and our actions. The exam is being offered by NCEES in testing centers currently around the country. Our members have provided non-proprietary feedback to SEAW about the exam and issues that they have had in the administration of the exam.



This new exam format has been in place for a year now. Results from the April and October depth sections of both the lateral and vertical sections have concerned the board as well as many of our members, in part because the pass rate has been so low. We want to ensure our members that we are working to provide feedback to NCEES and Washington State Board of Registration for Professional Engineers and Land Surveyors (BRPELS). We have been in contact with Illinois and California member organizations. We have also spoken with representative for NCSEA's Licensure Committee and, importantly, members of BRPELS. Representatives from these organizations have echoed our concerns for the current pass rate and testing environment. They are also actively working to make concerns known and to advocate for change where needed.

We will continue to advocate for our members and work towards a unified front with other SEA's and BRPELS. Our goal is to encourage SE licensure in our state and nationally. If you have taken the exam and have comments that you would like to pass along please use this link: <u>SEAW SE Exam Feedback</u> (Respond by February 28.)

See below for links to informational presentations/panels and additional information about the SE exam: SEAOC Webinar

SEAOI Tips and Tricks Webinar NCEES PE Structural Page NCEES YouTube Page

It is important to note that exam takers agree not to disclose any test questions or answers, and we have not asked for feedback of a proprietary nature.

Recent Exam takers please reach out via the survey above for feedback. For any others, please reach out to board members with comments or concerns.

NCEES seeks PAKS participants

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



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

Click here for access to the online survey: ncees.org/STRPAKS

The survey will be open until March 10, 2025. Please help us spread the word about this important study by sharing this email with any colleagues who are licensed structural engineers. NCEES sincerely thanks

you for your contribution to ensure that the PE Structural exam is reflective of the current practice of P.E.s.

For more information, contact NCEES Exam Development Engineer Sonya Dawson, P.E., at sdawson@ncees.org.

Upcoming WAsafe Building Safety Evaluation Trainings



Joyce Lem DPRC

SEAW members are invited to learn how to do post-disaster building safety evaluations at one of three inperson trainings in March 2025. All those who complete the training are invited to join the WAsafe registry to help building officials assess their building stock and help our communities.

- Spokane, March 5, 8:30 AM 5:00 PM.SEAW (instructors Paul Brallier and Greg Hensley) is teaching this class at Coffman Engineers' office. ATC Field Manuals can be ordered during registration and will be distributed at the class. Eligible for 7.0 PDHs. Registration fee: \$155. For more details and registration, see the second announcement on this webpage: <u>SEAW WAsafe</u> <u>BSE Training</u>
- Seattle, March 5, 8:30 AM 5:00 PM(with optional Happy Hour 5-6 PM). AIA Seattle is teaching
 this class at The Center for Architecture + Design. Eligible for 8 AIA LU HSW. Registration fees
 vary: \$170 for SEAW members. For details and registration, see: AIA WAsafe BSE Training
- Lynnwood, March 17, 8:30 AM 4:30 PM WABO is teaching this class during WABO's Annual Education Institute (AEI) at the Lynnwood Convention Center. Eligible for 0.7 ICC CEUs. The AEI is a 4-day event. Prices include lunch and snacks/coffee/tea. For more details, start here: AEI Homepage for general information about the AEI, registration fees and links. Use the link to the Schedule to find the description and details for the WAsafe BSE class.

(Note: Because each class is offered by a different organization representing different professions/specialties, the continuing education units are different. The organizations only offer the specified continuing education hours/units.)

WAsafe is the Washington state program that organizes and trains a cadre of engineers, architects, and other industry professionals so they can assist local jurisdictions with the field work following a major disaster, determining whether buildings are safe for occupancy.

If you're already a member of WAsafe, your enrollment expires 5 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, go to: Refresher Training. Alternatively, instead of the Refresher training you can take a WAsafe BSE class, such as any of the three classes above.

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



This one-story elementary school in Jojutla, Morelos, was heavily damaged by the 2017 Central Mexico Earthquake. WAsafe participants assist local jurisdictions in evaluating buildings such as this following a major disaster. (Photo courtesy Reid Middleton).

SEFW Adds New Board Members



Katie Bohocky SEFW

In January, the Structural Engineers Foundation of Washington held its Annual Meeting and affirmed the Board of Directors terms and leadership for the year.

SEFW welcomes two new Directors, Manny Golez, P.E., S.E., an Associate with KPFF Consulting Engineers, and Mark Whiteley, P.E., S.E., a Senior Principal with CKC Structural Engineers.

Other leaders include Melissa Verwest (KnifeRiver Prestress), continuing as Chair, Peter Somers (Magnusson Klemencic Associates) and Herb Ahten (Verco Decking) as Vice Chairs, and Cale Ash (Degenkolb) as Secretary/Treasurer.

SEFW would like to extend our gratitude to Shana Kelley, Associate with KPFF Structural Engineers, as her board term has ended. Thank you for your years of service, Shana!

SEFW would like to thank all our board of directors for their dedication to advance the profession of structural engineering through scholarships, education, research, and outreach!

Anyone with any feedback on SEFW's mission and ideas for 2025, please contact us atadmin@sefw.org. Have a great 2025!



Manny Golez, P.E., S.E.



Mark Whiteley, P.E., S.E.

SWR Report Moves Closer to SBCC, ASCE-78



Scott Douglas WEC

The Wind Engineering Committee submits the following report for the February 2025 Equilibrium:

State of Washington Special Wind Regions (SWR)—Washington State Building Code - SEAW's proposal for incorporating the recommendations in White Paper WEC #3-2023 Structural Engineers Association of Washington (squarespace.com) has cleared its first hurdle, acceptance by the Washington State Building Code Council (SBCC) Technical Advisory Group (TAG) Committee. The following steps remain in the process before it becomes part of the 2024 Washington State Building Code.



- The proposal will go to the BFRW (Building/Fire/Residential/Wildland Urban Interface) standing committee for review and approval.
- Once the SWR proposal is approved by the BFRW standing committee it will go to the main SBCC Committee for review and approval.
- After the proposal receives SBCC approval it needs to be posted for public comments.
- Once the public comment period has passed and any public comments have been
 resolved the proposal will be filed by SBCC staff for adoption by the Washington State
 Legislature. All proposals need to sit through one session of the legislature for the
 legislators to have time for consideration.
- After this involved process the updated SWR's for Washington State is expected to finally become an official part of the 2024 Washington State Building Code in November 2026.
- State of Washington Special Wind Regions (SWR) ASCE 7-28 The ASCE 7-28 Wind Load Subcommittee completed voting January 08 on incorporating the updated Washington State SWR's into ASCE 7-28. The SWR proposal ballot passed with 38 affirmative votes, 5 affirm with comment votes, and 1 negative vote. Persuasive comments will be incorporated and the ballot proposal will be forwarded to the ASCE 7-28 Main Committee.
- Update to the 2004 SEAW commentary on wind code provisions (SEAW/ATC 60) —Work
 continues on this effort by the NCSEA Wind Engineering Code Advisory Subcommittee. Several
 SEAW WEC Members are involved in this Commentary revision.
- City of Bellevue Kzt Map This effort is still on the WEC's agenda for 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 SDCI | seattle.gov. If adopted the map will facilitate an
 alternate conservative method for rapid determination of Kzt factors and justify use of a Shoreline
 Exposure C classification 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 <u>sdouglasscott@gmail.com</u>, to join the SEAW WEC and receive additional information and announcements on Committee activities and actions.

Next Meeting – Friday February 14 from 12 to 1 PM. Meeting will be virtual via the following Zoom link: https://us02web.zoom.us/j/81884044599?pwd=fWZZrx9KBgBCaW76bk4bmgWF54laNf.1

Meeting ID: 818 8404 4599

Passcode: 269296

SEAW January Student Showcase Features SU, UW students



Anand Mourougassamy Seattle Chapter

The SEAW Student Showcase at Seattle University brought together students and industry professionals

for an evening of knowledge sharing and networking. The event provided an excellent platform for aspiring engineers to present their research and projects while connecting with professionals from the structural engineering community. Before the presentations began, students had the opportunity to engage in meaningful discussions with representatives from local firms, making for a valuable networking experience.

The evening featured four student teams – two from Seattle University and two from the University of Washington – who showcased their research and project work in structural engineering.

Seattle University students presented two seismic evaluation studies. The first team – Nick Schmidt-Bailey, Shaelyn Yoshida, Keerthana Kalla, William Katsiotis, and Kian Khorrami – conducted a Seismic Evaluation of Villa Apartments, assessing the building's structural vulnerabilities in accordance with ASCE 41 provisions.

The second team – Helene Babalis, Harold Nguyen, Paola Binuya, and Nicolas Chantorn – focused on the Seismic Evaluation of North Service Center, analyzing the Seattle City Light facility's structural performance under seismic loads and identifying potential rehabilitation schemes to improve its resilience.

The University of Washington teams presented two diverse projects. Engineers in Action University of Washington chapter members introduced their 2024 Bridge Project, which involves designing and constructing a pedestrian bridge to enhance accessibility for an isolated community in Pocoata, Bolivia. Immediately following, Lily Swanson presented her research on the Impact of Local and Global Slenderness on Inelastic Deformation Capacity of Square and Round HSS Braces, shedding light into the buckling behavior of hollow structural section braces used as part of seismic braced frame applications.

The event was a resounding success, with strong student participation and enthusiastic support from the local engineering community. SEAW extends its appreciation to all the students who presented their work and to the industry professionals who contributed their time and expertise. SEAW would also like to thank the table sponsors for their generous monetary support that makes events like these possible. Events like these continue to foster collaboration and learning, bridging the gap between academia and professional practice.

This event was sponsored by CPL, KPFF, HDR, DCI Engineers, SSF, Mackenzie, Degenkolb, MKA, Kimley Horn and AUE.



Seattle University students present their project on Seismic Evaluation of Villa Apartments at January's Student Showcase. Photo by Xiao Xiao Wen.

TCC CILE Building Tour with CSI Mt. Rainier Chapter



Evan OlszkoSouthwest Chapter

On January 8, the SEAW Southwest Chapter had our joint

meeting with CSI Mt. Rainier Chapter. We toured the Tacoma Community College Center for Innovative Learning and Engagement (CILE). After the tour we had dinner at the Roy H. Murphy Community Center, in Fircrest, and heard from our three presenters: Stephen Murphy and Forrest Huff, both from Korsmo Construction, and McKell Bowen, from PCS Structural Solutions.

Some of the goals of the project included sustainability and a focus on student input. The project achieved LEED Gold certification and Salmon Safe certification. The CILE also incorporates several features requested by students, including large windows in the classroom spaces for daylight and with views across the campus.

The CILE building is a 3-story steel framed structure with slab on metal deck and a BRB lateral system. Some of the other features of the building design are rooftop PV panels and an impressive feature stair that was designed and detailed with close coordination between the architect and the structural engineer to incorporate mass timber treads and landings with steel risers and framing. The stair also features a custom stainless-steel handrail with recessed lighting.



Members of AIA SWW and SEAW SW Chapter tour the new Center for Innovative Learning Engagement at Tacoma Community College. Photo courtesy Evan Olszko.

It was great to hear from McKell on the structural side of things, as well as learning more from Stephen about Korsmo's experience with the GC/CM process. Forrest provided an interesting overview of the modeling, 3D imaging, and drone mapping used by Korsmo to assist in clash detection, fabrication, and construction.

Thank you to CSI for coordinating a great event, to our presenters and guides for a great tour and presentation, and to everyone who was able to make it out for the evening!

Also, **SAVE THE DATE!** We have set the date for our annual summer social with AIA SWW Chapter, which will be at the Tacoma Rainier's game on May 28. Please join us for the ballgame and to reconnect with our peers in our local AIA chapter.

Now Accepting Applications for the 2025 SEAW Scholarship



Kevin Solberg Scholarship Committee

The SEAW Scholarship Committee is now accepting applications for the 2025 SEAW Scholarship. The scholarship award is \$5,000. Please encourage current engineering graduate students or undergraduate seniors to apply. Applications are due on February 28, 2025. See https://www.seaw.org/seaw-scholarship for additional information and eligibility criteria.

For background information regarding the scholarship program, see the Winter 2023-2024 edition of Equilibrium. https://conta.cc/3NSyP8Y

For a list of past scholarship winners, visit https://www.sefw.org/scholarship



Kevin Solberg recognizes the 2024 SEAW Scholarship recipients this past June. The 2025 SEAW Scholarship application is now open.

CALENDAR



February 14, 2025, 12:00 - 1:00 PM Wind Engineering Committee Meeting (@Via ZOOM)

February 25, 2025, 12:00 - 1:00 PM Code Advisory Committee Meeting (@Via ZOOM)

February 26, 2025, 3:00 - 8:00 PM

SEAW SW Architectural & Engineering Trade Show (@Emerald Queen Casino, Fife)

February 26, 2025, 5:45 – 7:45 PM

SEAW Seattle + WA ACI Chapter Meeting (@Ivar's, 1001 Alaskan)

March 5 & March 17, various

WAsafe Building Safety Evaluation Training (@Spokane, Seattle, Lynnwood)

May 28, 2025, TBD

SEAW SW Summer Social at the Rainiers (@Cheney Stadium, Tacoma)

September 15-19, 2025

19WCSI (@University of California Berkeley)

September 25-26, 2025

SEA Northwest Conference / SEAW 75h Anniversary Celebration (@DoubleTree by Hilton, Spokane)

Please see the SEAW website for other event dates and information: https://www.seaw.org/calendar

MEMBERSHIP POSTINGS



Welcome New Members!

Sangameshwar Beemari

Seattle University
Student – Seattle Chapter

Shyam Umashankar

Seattle University
Student – Seattle Chapter

Courtney Maciolek

Facet
PE – Seattle Chapter

Maruthu S A

University of Washington Student – Seattle Chapter



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.

Structural Engineer GLR Engineers Spokane, WA

GLR Engineers is seeking applicants for a structural engineer position in our Spokane, WA office. The applicant shall have a minimum of 6 years of relevant experience in the field of structural consulting design. Desired experience shall consist of working with multiple types of building materials, project types and the ability to contribute on multiple projects and deadlines. The selected applicant will be expected to produce structural calculations required for permit submittals, work with GLR's in-house drafting department to produce construction drawings, coordinate with architectural clients and other design team members, and succeed in operating in a team environment. Knowledge of Revit modeling is a plus. Applicant must be self-motivated with a strong drive to learn and expand their knowledge base.

GLR Engineers is a structural engineering firm with offices in downtown Boise, ID and Spokane, WA. We work on a variety of project types across the country and offer a diverse range of design experience on a week-to-week basis. Work will be shared between both office locations, web-based communication skills are a must. We offer a competitive salary, excellent benefits, and flexible work hours.

Please send your cover letter and resume for review and consideration tojacob@glrengineers.com.

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 <u>SEFW</u> 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

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