

June | 2023



June 2023 Equilibrium

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June 2023 Issue

1. SEAW Seattle Chapter's Annual June Social and Awards
2. "Being a Part of the Conversation" YMG Happy Hour Series
3. Engineer's Notes from Afield: Kahramanmaraş Earthquake Disaster Response
4. 2021 Construction Code Delays
5. Check out the Bellevue Hilton, venue for the Northwest Conference
6. SEFW Receives Feedback from Donors, Shares Ways to Get Involved
7. Volunteers Needed for NCEES PE Structural Exam Cut Score Panel
8. SBCC TAG Representative Needed
9. Updates in Progress for Bellevue Kzt Map, ATC 60 Wind Code Provisions
10. Calendar
11. Member Notices
12. Employment Postings

SEAW Seattle Chapter's Annual June Social and Awards

2023 Turkey Earthquake Reconnaissance – Observations and Lessons Learned

The series of earthquakes that occurred on February 6, 2023 in southern Turkey resulted in over 50,000 deaths, 1.5 million displaced from their homes, and is estimated to have caused over \$100 billion in damage. Degenkolb Engineers sent two reconnaissance teams to observe the damage. The presentation will review the seismic hazard in Turkey and how it compares to Washington State, discusses typical construction observed in Southern Turkey, and look at examples of performance for various construction types including residential, schools, and hospitals. We will conclude with what lessons we can learn from the Turkey earthquake that can provide insight into our design practices and planning.



Speaker: David Sommer, PE, SE

David Sommer is an Associate Principal at Degenkolb Engineers with over 14 years of

Date: Tuesday, June 20, 2023

Time: 5:00 PM - 9:00PM PST

- 5:00 No-Host Cocktail Hour
- 6:00 Buffet Opens
- 6:30 Introductions, Welcome, and Awards
- 7:15 Program

Location:

- Imperia Lake Union
(3119 Eastlake Ave E,
Seattle, WA 98102)

Cost per person

- Members - \$55
- Non-Members & Guests - \$75
- YMG & Students - \$40
- SEAW Life & Honorary Members - FREE

experience focused on seismic retrofit of existing structures. He has managed projects for school districts around the state and at the University of Washington. David's projects include new construction and existing building retrofit using all primary building materials.



**Register
Now!**

David serves on the board of The Masonry Society (TMS), and currently chairs the Design Practices Committee. He is a voting member of the TMS 402-28 committee and is the secretary of the Seismic and Limit Design subcommittee. He also serves on the ASCE 41 masonry subcommittee for seismic evaluation and retrofit of structures.

“Being a Part of the Conversation” YMG Happy Hour Series

By Anand Mourougassamy, YMG



SEAW Younger Members socialized after the second “Being Part of the Conversation” lecture at the Holmes & RBHU office space in April. Photo courtesy Anand Mourougassamy.

On May 18th, Holmes and RBHU hosted the SEAW YMG for a Happy Hour as part of the “Being a Part of the Conversation” series for 2023. A well-attended event by members from all over made for some thoughtful conversation and a worthwhile experience. Thank you to all for your attendance and a special thanks to Holmes and RBHU for serving as our most gracious hosts!

Keep on the lookout for our next event this month!

"BE A PART OF THE CONVERSATION" HAPPY HOUR SERIES

— presented by —

SEAW YOUNG MEMBERS GROUP



APRIL 26

Magnusson Klemencic Associates

1301 Fifth Avenue, Suite 3200 | Seattle, WA 98101

5:30 pm – 7:30 pm



Holmes



MAY 18

Holmes / RBHU

810 Third Avenue, Suite 350 | Seattle, WA 98104

5:30 pm – 7:30 pm

JUNE 21

Arup

1191 Second Avenue, Suite 400 | Seattle, WA 98101

5:30 pm – 7:30 pm

ARUP

AECOM

JULY 26

AECOM

1111 Third Avenue, Suite 1600 | Seattle, WA 98101

5:30 pm – 7:30 pm

SEPTEMBER 6

Mackenzie

500 Union Street, Suite 410 | Seattle, WA 98101

5:30 pm – 7:30 pm

M.



OCTOBER 18

Swenson Say Faget

2124 Third Avenue | Seattle, WA 98121

5:30 pm – 7:30 pm

NOVEMBER 15

DCI

818 Stewart Street, Suite 1000 | Seattle, WA 98101

5:30 pm – 7:30 pm

EDCI
ENGINEERS

Food and beverages will be served at all events.

Scan the QR code to sign up!

For queries, reach out to seawymg@gmail.com



Engineer's Notes from Afield: Kahramanmaraş Earthquake Disaster Response

By Paul A. Brallier, PE, SE, WAsafe Coordinator

HOOK: Someone asked, "What kind of work are you doing?" "We are helping others. That is not work to us, it is what we like to do."

DISCLAIMER: This article is focused on the humanitarian aspects of the disaster. For a more technical report, come to the SEAW Summer Social on June 20 with David Sommer of Degenkolb or see the links at the end of this article.

SET SCENE: People within the WAsafe Coalition of building safety evaluators, namely Scott Douglas, SEAW, and Brian Johnson, AIA, saw the call for volunteers from All Hands and Hearts (AHAH) for Kahramanmaraş, Turkey. Both Scott and Brian had volunteered doing building safety evaluations after the earthquake in Haiti in 2010. There was now an opportunity to do the same in *Türkiye*.

I'd like to focus on one city to help you visualize the personal effects of the disaster. Kahramanmaraş had a population in 2021 of 550,000, but after the earthquake, 120,000 people left the city to live elsewhere and 100,000 were displaced from their homes and living in tents. About 25,000 tents were erected in camps and in every open lot around the city. The shallow M7.5 and M7.8 earthquakes with Severe to Violent shaking both within 24 hours were similar to a Seattle Fault Scenario. In fact, the resulting damage could be similar to what might be seen here. "The consequences of such major earthquakes were exacerbated due to: a) many aging buildings that were constructed prior to the introduction of modern seismic design principles [and] b) severe to extreme shaking from the two shallow earthquakes...."(1)

The first step to recovery is getting people back into safe buildings and that is what those of us with AHAH aspired to do. Alas, AFAD (Turkey's equivalent to FEMA) did not want outside evaluators. They are focused on building damage assessments to estimate the costs for rebuilding. "People who were living in heavily and moderately damaged buildings will need to be provided alternative housing until such buildings are strengthened or reconstructed."(1)

Also, AFAD did not post placards on buildings to clearly inform the public of their findings. Instead, inquiries are made "by making an address query with its identification number from the ... government web address."(1) This led to confusion about the status of buildings. For instance, there was no public understanding if the damage is repairable, or non-structural or structural. This lack of transparency – and the trauma of experiencing shaking so hard that a jar of tomato sauce would fly off the shelf and break against the opposite wall – made people reluctant to re-enter buildings. Rebecca Hix Collins reported, "We even saw a two-story school and heard that there had been minor, non-structural repairs, but the parents were afraid to allow their kids back into the building. All the aftershocks added to the fear."



View of Kahramanmaraş from the All Hands and Hearts base camp. Photo courtesy Paul Brallier.



Volunteers work on constructing a women's and infants' commons area, with an existing school in the background (which was evaluated for safety). Photo courtesy Paul Brallier.

DISASTER RELIEF ACTIVITIES AND STORIES: Aspirations aside, this was an opportunity to experience in person the human impacts of a disaster and see the actual damage, but more importantly this was an opportunity to help people in need.(2)

One of the efforts I worked on in Kahramanmaraş was a women's and infants' commons area. It was designed by Turkish Architecture for All (known as *HiM*) and located in a Syrian refugee neighborhood where 4,000 people were living in tents.(3) I did a structural safety evaluation of a school in the commons area, pictured in the accompanying photo. I found the school structure undamaged with limited non-structural repairs and strengthening needed, but even with thorough analysis, the Turkish government is resistant to allowing buildings to be reoccupied.

Also at this school yard is a soup kitchen and bakery funded by grassroots volunteer group of musicians from Istanbul (known as *KAF*)(4). The head baker is 14 or 15 years old. He came from a family of bakers and his father died in the earthquake. Several other organizers/managers of the soup kitchen and food distribution were teenagers. Hassan, the most vibrant, was pulled from the rubble of a collapsed building. He is a talented soccer player and is said to have received a call from Barcelona FC. We chastised Hassan for smoking, saying "Coach Xavi does not want you to smoke." One day Hassan pulled me aside and said, "I started smoking the day of the earthquake."

A 34-year-old Syrian joined AHAH. Ramy lived in a Syrian refugee camp in 2012. He had a textile import/export business, but volunteered to help build the commons building. He wanted to give back for the help he received back then. For now, Ramy lives in a tent in a Red Crescent displaced persons camp with his wife and brother. His home was severely damaged in the earthquake. He lost eight relatives, including both sets of grandparents. Ramy saved my back while I was trying to dig holes in wet clay and mixing concrete for the commons' foundations. He offered to let us use their family hot shower tickets because he noticed we did not have hot showers at the AHAH base camp.

Other activities by AHAH included sorting and reboxing truckloads of donated materials, refurbishing prefab housing, constructing a "proof of concept" portable prefab housing kit, erecting and dismantling emergency shelter tents, chopping vegetables for the soup kitchen, distributing food, packing breakfast meals to be handed out at night, and organizing activities for children.

To support these activities, AHAH established a spartan base camp with tents, pit toilets, and blue-tarp-surrounded showers. Lodging and even suitable open space for a base camp is in short supply in Kahramanmaraş. A base camp site was found and developed in an agricultural area on the mountainside above the city. It was a site surrounded by olive and pecan groves where several herds of goats and sheep were driven past our encampment daily. The glorious views of the mountain and city almost made up for the lack of hot showers.

SOCIAL SCIENCE OF DISASTER DISTRIBUTIONS: An interesting question came up: Why spend day after day sorting donated materials like clothes? Distribution at a camp must balance dignity and risk with structure and effectiveness. Dignity relates to the ethicality of how individuals are being treated and how much freedom and respect is offered to those who need the distributed items. Structure relates to the implementation of safety rules and the clarity in ensuring goods are evenly distributed. For example, volunteers must:

- Sort donated sweatsuits by color, size, and sex, and rebox them so volunteers can quickly grab them and hand them out. A slow-moving line will make recipients frustrated and decrease the level of dignity offered. Queuing for a handout is dehumanizing.
- Keep the lineup straight and orderly. This promotes a sense of fairness and prevents recipients from queue jumping. While it does reduce risk, it also has the capacity to make people feel they are being herded like cattle, which reduces dignity.
- Only distribute items if there is enough for everyone. If there are only 70 of an item and 500 people are in the queue, distributing the 70 items will create a sense of unfairness and risks fights, anger, and a breakdown of trust.
- Check used donated items to make sure they work. A winter coat with a broken zipper can have a devastating effect on mental health for a recipient. A receiver might feel that they are only worth as much as a broken item. This is not dignified and a horrible outcome from lazy quality checking.

Losing one's home and living in a tent without proper food, water, and heat is dehumanizing enough without piling on insults to dignity. Tensions can rise and result in disputes that can quickly get out of hand.

IN CONCLUSION: Working alongside other engineers, architects, and building officials as volunteers with All Hands and Hearts ultimately strengthened our relationship. While building safety evaluations are often needed in a disaster zone, we found that AHAH also appreciated the can-do build-it confidence that we brought to the whole deployment. Additionally, having this experience in a disaster zone can help us better understand what to expect if this happens here at home. Seeing building damage first hand is valuable for our engineering practice. And, most importantly, we were able to help others which personally benefits us more than we can say.

WAsafe volunteers that volunteered with All Hands and Hearts:

Brian Johnson, AIA; Paul Brallier, SEAW; Hoyt Jeter, WABO; Tim Nordstrom, SEAW; John Laplante, ASCE; Stephen Fairchild, SEAW; Peter Sturtevant, American Red Cross.

Special Thanks:

Baki Ozturk, Ph.D., Assoc. Prof. of Civil Engineering, Hacettepe University, Ankara, Turkey; Rebecca Hix Collins, P.E., S.E., Coughlin Porter Lundeen; Reid Zimmerman, P.E., S.E., KPFF; Joyce Lem, P.E., S.E., WAsafe Coalition

REFERENCES:

- *Global Rapid Post-Disaster Damage Estimation (GRADE) Report, February 6, 2023*
Kahramanmaraş Earthquakes, World Bank and Global Facility for Disaster Reduction and Recovery.

- AHAH – All Hands and Hearts

[All Hands and Hearts | Volunteer-Powered Disaster Relief](#)
[Türkiye-Syria Earthquake Updates | All Hands and Hearts](#)

- HiM – Herkes İçin Mimarlık Derneği Architecture for All Association, Istanbul

[About – Herkes İçin Mimarlık \(Architecture For All\) \(herkesicinmimarlik.org\)](#)
[A Collective Playground Design For Earthquake Survivor Kids — The Circle \(thecircle-o.com\)](#)

- KAF Kolektif –

[Kaf Kolektif \(@kaf.kolektif\) • Instagram photos and videos](#)
[Help KAF Kolektif support earthquake survivors in Kahramanmaraş \(refugeworldwide.com\)](#)

KAF Kolektif is part of a network of grassroots organizations working to provide basic needs like food and shelter to those who need them. Founded just after the devastating earthquake that struck Turkey and Syria on February 6 this year, the group has quickly become a vital support structure for around 5,000 people living in Kahramanmaraş, Turkey.

TECHNICAL & NEWS LINKS:

- EERI [The 2023 Kahramanmaras, Turkey, Earthquake Sequence | M7.8, M7.5 \(learningfromearthquakes.org\)](#)
- BBC [Turkey earthquake fault lines mapped from space - BBC News](#)
- BBC [Turkey earthquake: How survivors cope with trauma - BBC News](#)

2021 Construction Code Delays

The Washington State 2021 Construction Codes effective date of July 1, 2023 is delayed to **October 29, 2023**. The Washington State Building Code Council (SBCC) vote to delay the code adoption took place

on May 24, 2023. This delay is related to energy requirements but affects all portions of the code. More information can be found at [the SBCC web site](#).

To align with the Washington State code, the 2021 Seattle Construction Codes effective date of July 1, 2023, is delayed to no sooner than October 29, 2023. The Seattle Construction codes were originally delayed to October 2, 2023, to accommodate a City of Seattle legislative review process which is longer than anticipated this code cycle. Please visit SDCI's [Code Adoption web site](#) for continued updates on the code adoption. During the period from July 1, 2023, through Oct 1, 2023, SDCI will accept applications using either the 2018 or 2021 suite of codes. Use of the 2021 Codes must be accompanied by a Code Modification or Alternate Request. SDCI will post the proposed 2021 Seattle Code Amendments once the entire package has been formally approved by CCAB.

The 2021 Seattle Construction Codes consist of:

- 2021 Seattle Building Code
- 2021 Seattle Existing Building Code
- 2021 Seattle Residential Code
- 2021 Seattle Elevator Code
- 2021 Seattle Energy Code
- 2021 Seattle Mechanical Code
- 2021 Seattle Fuel Gas Code
- 2021 Seattle Plumbing Code
- 2021 Seattle Wildland Urban Interface Code
- 2023 Seattle Boiler and Pressure Vessel Code
- 2021 Seattle Fire Code (Note: this code is submitted to council under a separate ordinance)

Please reach out to SEAW with any questions!

Check out the Bellevue Hilton, venue for the Northwest Conference

Have you registered yet for the Northwest Conference in September? We are looking forward to coming together as structural engineers from Washington, Oregon, Idaho, Montana, and British Columbia! There will be 10 technical speakers, 6 vendor speakers, and an impressive exchange of information. Join us!

This year's Northwest Conference will be at the [Bellevue Hilton](#), at 300 112th Avenue SE in Bellevue, Washington. Have you visited this venue before?

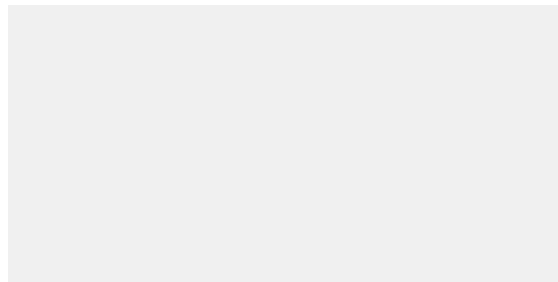
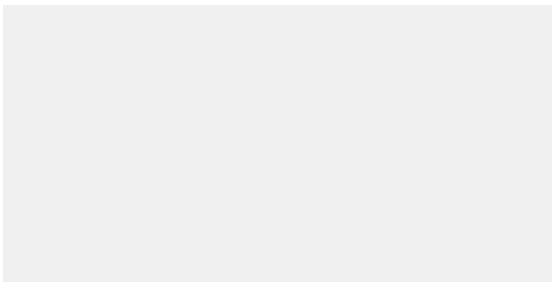
The hotel includes a business center, fitness center, and seasonal outdoor pool (with hot tub!), which will be open through October. Out-of-town attendees can stay in one of 338 rooms with free Wifi; self parking is free for both overnight and day use for all conference attendees, and EV charging is available. Additionally, pets up to 25 pounds are also permitted in the rooms for a \$50.00 non-refundable pet fee. The hotel is non-smoking and that includes e-cigarettes as well.

The hotel features 12 meeting rooms for a total of more than 57,000 square feet of conference space. The Northwest Conference will take place in the Hilton's four-part Grand Ballroom and the Skyview Ballroom. We are fortunate that the vendor exhibits and session spaces will all be on the same floor in adjacent spaces.

Just off I-405, the hotel is in the heart of Bellevue's business district, within a mile of the Bellevue Botanical Garden and Downtown Bellevue Park. If you have extra time during your visit, check out the Bellevue Art Museum, Bellevue Aquatic center, or Mercer Slough Environmental Education Center.

Out-of-town visitors might also enjoy visiting downtown Seattle, a 37-minute express bus ride from the Bellevue Transit Center (just five blocks from the Hilton). Attractions in Seattle include Pike Place Market, Amazon Spheres, and Seattle Center – featuring the Space Needle (with its new glass floor), the Museum of Pop Culture (affectionally called *MoPOP*), and the Chihuly Garden and Glass. Lastly, the Seattle Mariners are playing the LA Dodgers at T-Mobile Park Friday and Saturday evenings and Sunday afternoon after the conference.

[Register for the conference](#) and start planning your visit today!





The Bellevue Hilton is in the heart of Bellevue business district, a short walk away from Bellevue attractions and a short bus ride away from Seattle attractions. Photo from Hilton.com.



The Northwest Conference will take place at several locations in the Bellevue Hilton, such as the pictured Skyview Ballroom. Photo courtesy the NWC Steering Committee.

SEFW Receives Feedback from Donors, Shares Ways to Get Involved

By Angela Gottula Twining, SEFW

The Structural Engineers Foundation of Washington was pleased last month to hold its second Donor Appreciation Meeting, to both express appreciation for donor support in recent years and solicit feedback on the SEFW accomplishments, mission, and goals.

The SEFW Board funded the event, which was held at the Center for Architecture in Seattle and included a box lunch for all attendees. Melissa Verwest, current Chair of SEFW, welcomed the attendees, which included board members, past SEAW scholarship recipients, corporate donors and partners, and individual donors. It was a diverse group of young and seasoned professionals, some structural engineers but also many other A/E/C professionals and partners.

Howard Burton, past SEAW president who founded the SEFW in 2010, gave a short history of the organization and outlined a few accomplishments in SEFW's 13-year history. Then Herb Ahten, current board member, led a discussion among attendees to learn impressions and thoughts of SEFW's "past." Some comments included:

- One attendee invited his neighbors and neighbors' children to a Forum; they learned a lot and it is a positive thing that Forums reach beyond the SE community to the general public
- One non-structural engineer is impressed with the educational and outreach efforts, as it is critical to inspire younger people to pursue these careers to replace those who will be retiring.
- One individual emphasized how important it is that charitable non-profits work to be good stewards of donated funds, and SEFW works hard to fulfill that responsibility.

Next, board members Shana Kelley and Cale Ash presented a few things SEFW has "in the works," including a formal legacy giving program, work promoting structural engineering to all areas in the state (with all SEAW chapters), and opportunities to support diversity and equity with the SEAW DEI committee. After their comments, another group discussion was held to discuss SEFW "future" efforts. Comments included:

- Several attendees suggested a larger social media presence, with SEFW being a premier source for structural engineering news
- Several attendees suggested building relationships with other SEA-foundations around the country, including NCSEA Foundation
- One attendee suggested formalizing the intent to fund "research," and what kind of opportunities exist there, as research can be costly and hard to quantify success.

Another highlight of the event was that three past SEAW scholarship winners were invited to share their stories, such as their passion for the profession, their career journey, and how the SEAW scholarship helped them. In this way, donors could see a personal face to the scholarship fund. Invited recipients were Carolyn McCann (2019), who works for KPFF and gives back as an ACE mentor, Benjamin Terry (2022), who works for Degenkolb and participates with the SEAW DEI committee, and Francesa Renouard (2013), who works for Swenson Say Faget and shared a compelling story about being mentored by Dan Say, discovering structural engineering, and working to outnumber the architects at her family dinner table. It was a remarkable experience to hear from these younger professionals!

The event concluded with Executive Director Angela Gottula giving a call to action, encouraging attendees to continue to support SEFW and get involved. Ways you can get involved include:

- Advocate for SEFW, have an elevator speech prepared to share

- Volunteer for a committee, join the board
- Donate individually and with your firms
- Contribute ideas – how would you promote structural engineering if you had the funding?

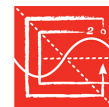
Thank you to everyone who has supported SEFW since 2010! We are well into our second decade and there are surely great things in store!



Francesca Renouard, SEAW Scholarship Recipient from 2013, addresses a group of SEFW donors and supporters at the SEFW Donor Appreciation Meeting in May. Photo by Angela Gottula.

Volunteers Needed for NCEES PE Structural Exam Cut Score Panel

NCEES is in the process of assembling panels of licensed structural engineers and licensed professional engineers to participate in a series of two-day meetings (September 18-19 and September 20-21) to determine the cut score, or establish the pass point, for the 2024 Principles and Practice of Structural Engineering exam. This process requires a cross-section of engineers from various employment positions and technical specialties. NCEES asks that you consider volunteering to assist with this important work. We hope you'll be able to help. Click [here to learn more](#).



NCEES

SBCC TAG Representative Needed

The State Building Code Council, SBCC, is looking to fill a position on its Building Code Technical Advisory Group, TAG, representing the structural engineering community. The Building Code TAG is the subcommittee that considers, in detail, the model codes along with any proposed amendments. This committee then forwards its recommendations onto the full SBCC for approval. Meetings are currently held virtually, are typically 2 hours long and there are about 6-10 meetings a year depending on where they are at in the adoption process. If you are interested in this position, please email [Roger Herringa](#).

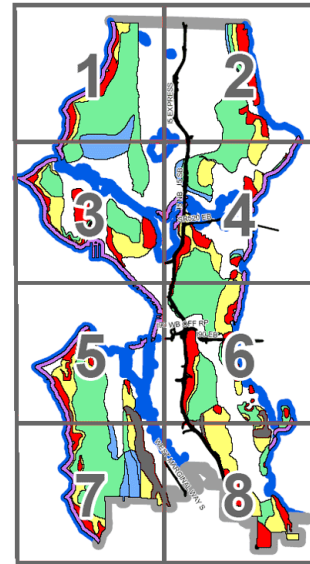
Updates in Progress for Bellevue Kzt Map, ATC 60 Wind

Code Provisions

By Scott Douglas, SEAW WEC Chair

The SEAW Wind Engineering Committee submits the following report for June:

- **City of Bellevue Kzt Map** – The SEAW WEC is continuing work on a Kzt Wind Load Factor map for the City of Bellevue's consideration. It will replicate the existing City of Seattle Wind Load Factor Map Wind Load Factors - SDCI | seattle.gov. If adopted the map will facilitate an alternate conservative method for rapid determination of Kzt factors and shoreline exposure in the City of Bellevue.
- **Update to the 2004 SEAW commentary on wind code provisions (ATC 60)** – The NCSEA CAC Wind Engineering Subcommittee has begun this update effort. Additional authors and reviewers are needed for this update. If interested in either being a primary update author or a reviewer of a final draft of an updated commentary chapter, please contact Scott Douglas sdouglasscott@gmail.com.
- **Washington/Columbia Special Wind Regions (SWR) Study** – The SEAW White Paper WEC #3-2023, ASCE 7 Special Wind Regions in Washington State, is now posted on the SEAW website [Structural Engineers Association of Washington \(squarespace.com\)](https://www.structuralengineers.org/washington). The recommendations in White Paper WEC #3-2023 will now be submitted for adoption by the Washington State Building Code Council. The recommendations, along with recommendations for the State of Oregon SWR's, will be submitted to the ASCE 7-28 Subcommittee on Wind Loads for balloting.
- **Participation** – All SEAW members, whatever their experience, are encouraged to participate in WEC meetings. Please contact the WEC chair, Scott Douglas sdouglasscott@gmail.com, to join the SEAW WEC and receive additional information and announcements on Committee activities and actions.
- **Next Meeting** – Friday June 23 from 12:00 noon to 1:00 pm. Meeting will be virtual via the following Zoom link: <https://us02web.zoom.us/j/87606078450?pwd=bVVGcDVRTVp2Rno0RjQ1REpzNUZuUT09>
- Meeting ID: 876 0607 8450 | Passcode: 936908



The WEC is working on a Wind Load Factor map for the City of Bellevue that would replicate the current City of Seattle Wind Load Factors map (pictured). Graphic from City of Seattle.

Calendar

Tuesday June 20

SEAW Seattle Chapter's Annual June Social
Imperia Lake Union, 5:00 PM

Wednesday June 21

"Be A Part of the Conversation"
Arup, 5:30-7:30 PM

Friday June 23

Wind Committee Meeting
ZOOM, 12:00 PM

[Register to Attend!](#)

September 14-15, 2023

2023 SEA NW Conference

"Innovation in Structural Engineering"

Hilton Bellevue

300 112th Ave SE | Bellevue WA 98004



Welcome New SEAW Members!

Welcome

John Siino

SE Member, Spokane Chapter

Tomo Tsuda

PE Member, Seattle Chapter

Jake Mann

SE Member, Seattle Chapter

Terry Baldwin

SE Member, Seattle Chapter

Sung Cho

PE Member, Seattle Chapter

Carl Misra

PE Member, Seattle Chapter

Trushit Karkhanis

Associate Member, Seattle Chapter

Derek Imperial

Associate Member, Seattle Chapter

Matthew Straume

Associate Member, Seattle Chapter

Emily Worthy

Student Member, 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](#).

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.

Seattle
Structural

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.

Please address inquiries to:

Lisa Wipplinger
 Seattle Structural PS Inc.
 3131 Elliott Avenue Suite 600A
 Seattle, WA 98121
LWipplinger@SeattleStructural.com

Simpson Strong-Tie CSS Field Engineer - Seattle

For over 60 years, Simpson Strong-Tie employees have fostered a collaborative workplace where team members are engaged in creative thinking to make things better and do it right. If career growth is important to you, [come join us!](#)



THE JOB:

- Partner with external customers and team members to identify opportunities and provide consultation in the areas of design, testing, development, and implementation of Simpson Strong-Tie's (SST) Composite Strengthening Systems (CSS) products to meet project needs
- Identify sales opportunities and work closely with the sales team to support closing of sales opportunities.
- Conduct technical presentations for individuals, groups and associations involved in structural repair and rehabilitation.
- Be a jobsite presence; attend pre-bid job walks and intermittent site visits to support installer partners
- Develop and foster relationships with engineers, contractors and engineering firms

DESIRED EXPERIENCE:

- **Washington P.E. license required**
- B.S Civil/Structural Engineering
- 4 years minimum commercial design experience
- 1-year sales or design experience with fiber reinforced polymer (FRP) strengthening systems a plus
- Design experience with retrofits, FRP, concrete repair and strengthening desired
- Other helpful skills: customer focused attitude, self-motivated, great communication skills, enthusiastic approach and ability to work well with others

INTEGRUS

Structural Engineer-In-Training (EIT)

Integrus (based in Seattle, Spokane, and Portland) is currently seeking highly motivated, technically skilled, collaborative individuals to join our structural engineering group. We foster a supportive team environment focused on communication and collaboration.

Integrus is looking for a Structural Engineer-In-Training (EIT) to work within comprehensive building project teams to integrate structural engineering into our architectural endeavors.

Position Requirements

- 0-3 years' experience working with building structures.
- BS or MS in Structural, Civil/Structural, or Architectural Engineering.
- EIT Certification.
- Seismic design experience/education.
- Experience/education in designing and detailing steel, wood, masonry, and concrete buildings.
- Proficiency in (or interest in learning) Revit.

Position Preferences

- Strong emphasis on communication skills.
- Creative technical problem solving.
- Solid engineering skills and knowledge.
- Specific interest in architectural collaboration.

- Experience/education in evaluation and retrofit of existing structures is a plus.

Salary Range: \$72,000- \$91,000 per year

Benefits

- 100% Employer paid insurance for staff, including medical, dental, vision, life, and disability.
- 3 weeks' vacation plus sick leave, 9 paid holidays including 2 "flex" days.
- FSA plan for dependent care and transportation costs.
- 401k retirement plan with employer matching.
- Annual profit sharing.
- Support in obtaining licensure, professional development, and continuing education.

[Visit this link to apply.](#)

Project Engineer (PE)

Integrus (based in Seattle, Spokane, and Portland) is currently seeking highly motivated, technically skilled, collaborative individuals to join our structural engineering group. We foster a supportive team environment focused on communication and collaboration.

Integrus is looking for a structural focused Project Engineer (PE) to work within comprehensive building project teams to integrate structural engineering into our architectural endeavors.

Position Requirements

- 4+ years' experience working with building structures.
- PE license.
- BS or MS in Structural, Civil/Structural, or Architectural Engineering.
- Seismic design experience.
- Experience in designing and detailing steel, wood, masonry, and concrete buildings.
- Proficiency in (or interest in learning) Revit.

Position Preferences

- Strong emphasis on communication skills.
- Creative technical problem-solving.
- Solid engineering skills and knowledge.
- Specific interest in architectural collaboration.
- Experience in evaluation and retrofit of existing structures is a plus.

Salary Range: \$85,000- \$108,000 per year

Benefits

- 100% Employer paid insurance for staff, including medical, dental, vision, life, and disability.
- 3 weeks' vacation plus sick leave, 9 paid holidays including 2 "flex" days.
- FSA plan for dependent care and transportation costs.
- 401k retirement plan with employer matching.
- Annual profit sharing.
- Support in obtaining licensure, professional development, and continuing education.

[Visit this link to apply.](#)

Structural Engineer (SE)

Integrus (based in Seattle, Spokane, and Portland) is currently seeking highly motivated, technically skilled, collaborative individuals to join our structural engineering group. We foster a supportive team environment focused on communication and collaboration.

Integrus is looking for a senior Structural Senior Engineer (SE) to work within comprehensive building project teams to integrate structural engineering into our architectural endeavors.

Position Requirements

- 6+ years' experience working with building structures.
- SE license.
- BS or MS in Structural, Civil/Structural, or Architectural Engineering.
- Seismic design experience.
- Experience in designing and detailing steel, wood, masonry, and concrete buildings.
- Proficiency in (or interest in learning) Revit

Position Preferences

- Strong emphasis on communication skills.
- Creative technical problem-solving.
- Solid engineering skills and knowledge.
- Specific interest in architectural collaboration.
- Experience in evaluation and retrofit of existing structures is a plus.

Salary Range: \$96,000 - \$148,000 per year

Benefits

- 100% Employer paid insurance for staff, including medical, dental, vision, life, and disability.
- 3 weeks' vacation plus sick leave, 9 paid holidays including 2 "flex" days.
- FSA plan for dependent care and transportation costs.
- 401k retirement plan with employer matching.
- Annual profit sharing.
- Support in obtaining licensure, professional development, and continuing education.

[Visit this link to apply.](#)

Fossatti Pawlak Structural Engineers is a small, boutique firm based in Seattle, WA.



We are expanding our operations and have opportunities to join our dynamic and diverse team. We are looking to add team members that share our passion for engineering and design solutions. We have open positions for project engineers, project managers, and BIM technicians/managers to start immediately.

Minimum skill set required:

- BS in an engineering discipline from an accredited university with an emphasis on structures/structural analysis. M.S. or M.E. preferred.
- All experience levels are invited to apply. 3+ years and P.E. licensure preferred.
- Must be eligible to work in the U.S.
- Experience designing structures with a variety of materials including wood, masonry, concrete, and steel.
- Working knowledge of recent and current building (IBC, IEBC, ASCE) and material (AWC, TMS, ACI, AISI) codes.
- Skilled in the use of software including AutoCAD, Revit, Risa, RAM, Office 365, Bluebeam, etc.
- Strong written and verbal communication skills.
- The ability to collaborate effectively with other engineers, architects, and clients in a proactive and positive manner.

We offer a competitive salary and complete benefit package including 401k match, medical, dental, vision, and up to four weeks of PTO.

Pay determined on experience from \$65k - \$120K.

For immediate consideration please send your resume and cover letter to info@fossatti.com along with examples of your recent projects, your role in the design, and the materials used. Please provide references with your resume.

Seattle Department of Construction and Inspections (SDCI)

The Seattle Department of Construction and Inspections (SDCI) is currently seeking qualified Structural Engineers to join a team of professionals dedicated to building a safe, livable, and inclusive Seattle. This is a unique opportunity for a structural engineering professional to be part of the City of Seattle's future.

There are three position types available:

- Structural Plans Engineer, Journey (3+ years of experience)
- Structural Plans Engineer, Senior (5+ years of experience, PE required)
- Structural Plans Engineer, Senior, Unreinforced Masonry Program (URM) Focused (5+ years of experience, PE required)

Structural Plans Engineers will ensure building designs are in compliance with the building code. This will require review of plans, reports, and calculations for a variety of project types. The URM-focused position 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.

Please visit <http://www.seattle.gov/jobs> for more information and to apply. The closing date for these positions is July 4th, 2023.

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

SEAW | 5727 Baker Way NW, Suite 200, Gig Harbor, WA 98332

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