



# STATEWIDE EQUILIBRIUM

annual summer newsletter of the  
Structural Engineers Association of Washington  
**SUMMER, 2015**

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## SEAW Statewide President 2015—2016

Let me start by saying what an honor it is to serve as this year's SEAW State President! Although my time in the profession has been relatively short, I have developed an immense respect for my colleagues and the profession we share. I look forward to serving my fellow structural engineers and would like to personally invite you get involved with the leadership and learning opportunities provided by SEAW.

To introduce myself...

I was born and raised in Spokane and graduated from Gonzaga University in 2006. My professional career began immediately after, at a local consulting engineering firm. Working as a consultant gave me a great base of experience while working on a wide variety of local projects. Towards the end of 2011, I started at a new position for a worldwide material handling equipment supplier. Working with foreign colleagues, building codes, and manufacturers to design and construct safe and reliable equipment opened the door to a whole new world of experience for me. With the global mining market getting turbulent and having recently passed the SE exam, I decided to get back into consulting engineering at the end of 2013 and joined my current employer, TD&H Engineering. I never would have guessed that I'd be so geographically boring (from high school, to college, to downtown Spokane is all of 2 miles), but I can't say I'd change it either.

Looking ahead at the year to come, SEAW is facing a rare time of transition. Our excellent Executive Director, Lynnell Brunswig, will be retiring this November. For the last 30 years, Lynnell has contributed immensely to the Seattle Chapter and State SEAW's success:



**Ted Bernards**  
2015-2016 SEAW Statewide President

- ◊ Our membership has grown from 300 to nearly 1,000
- ◊ She was honored with the Seattle Chapter's President's award in 1988, 1991, and 2012
- ◊ With our constant change in leadership, she has acted as the organizational memory for the association

I'm sure that many of you have had the pleasure of meeting or working with Lynnell at one time or another. The next time you see her, please take a moment to thank her for her years of support.

To make the transition as smooth as possible, the leadership of the Seattle Chapter has already been hard at work searching for a suitable replacement. They have met with multiple individuals and association management firms and will have a recommendation soon. This will be an exciting time for SEAW, as it will open the door to fresh eyes, new ideas, and new capabilities.

I hope that you all have a great summer and I'm looking forward to working with you all next fall.

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# Outgoing President's Message



2014-2015 SEAW State President

Tim Nordstrom

The old cliché is true: time flies. This past year went by fast.

Consider this cliché and volunteer. Volunteer to do a one-time event with our great organization: organize a monthly meeting or take on a task with a committee. The commitment and time spent is rewarding and the time passes quickly.

Next month I will be attending the SEA Northwest Conference in Boise, Idaho. I encourage SEAW members to attend this event and look forward to seeing you there; it will be great.

Over the past year I was able to attend at least one monthly meeting at each of the chapters here are the highlights:

March was a party with the South Central Chapter, celebrating their 20th Anniversary. The featured Speaker was Ed Huston who was also the first presenter at the South Central Chapter 20 years ago. Ed showed a history of Structural Engineering with many entertaining pictures.

April was the joint dinner meeting with Southwest Chapter being hosted by the Seattle Chapter. The program included a tour and presentation of the Link Light Rail extension to South 200th Street at Sea-Tac. I love tours and seeing how

structures are built.

May, I attended the Spokane Chapter's lunch meeting. The topic was presented by AISC on the Design Manuals. The meeting was well attended and I had several great conversations with several members of the Chapter.

This next year will be one of transition for me and SEAW. I look forward to helping incoming president Ted Bernards and SEAW start a journey with a new Executive Director.

I look forward to seeing you at the next SEAW event.

## 2015 SEAW & SEFW Scholarship Awards

SEAW and SEFW awarded two \$3,000 scholarships for 2015, to Hilary Tervet and Jonathon Waldrip. Scholarship committee chair Kevin Solberg made the presentations at the June 22<sup>nd</sup> Seattle Chapter Social and Awards Event.



**Hilary Tervet, EIT**, graduated in June 2015 with her BS in Civil Engineering from Seattle University. She plans to attend SU in the fall to begin her master's program. From Federal Way, Hillary graduated from Todd Beamer High School and also attended Highline Community College and Bryn Mawr College before SU. While at SU, she served as president of the ASCE student chapter, participated in the steel bridge and concrete canoe competitions, and was on the first-place team for the SEAW Student Competition. Hillary had in-

ternships at both Sound Transit and King County Metro, and was able to take a service trip to Nicaragua with Professionals Without Borders. She enjoys snowboarding.



**Jonathon Waldrip, EIT**, earned his BS in Civil Engineering from Washington State University in May 2014, and is now in the Structural Engineering Masters program at WSU, with an expected graduation of May 2016. From Port Angeles, he graduated from Crescent School in Joyce, WA, and participated in Running Start through Peninsula College. While at WSU, Jon participated in Engineers Without Borders and Bridges to Prosperity, designing a pedestrian bridge in north central Haiti. He interned at Zenovic & Associates in Port Angeles, and served as a research assistant and teaching assistant at WSU. His thesis topic is lateral stability and stiffness restoration in timber deck and porch struc-

tures. He played trumpet in the WSU concert band and led a gymnastics, dance, and martial arts club called FreeRunWSU. Hillary and Jonathon mark the 60<sup>th</sup> and 61<sup>st</sup> recipients of the SEAW Scholarship Award, which was instituted in 1985.

The Structural Engineers Foundation of Washington (SEFW) was formed in 2010 as a charitable organization to enable donations to the Scholarship Award program to be tax deductible.



### SEAW SCHOLARSHIP APPLICATION INFORMATION

Each December, announcements of the SEAW Scholarship program are distributed to engineering schools in the Western United States. Applicants must be U.S. citizens and residents of Washington State; as an undergraduate in their final year of study, or a graduate student; enrolled at the time of application in a program of study majoring in structural engineering; and having a commitment to making a career in the practice of structural engineering.

Scholarship application materials are posted under "Quick Links" on the web at [www.seaw.org](http://www.seaw.org)

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### SEAW Scholarship Fund

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# Annual Chapter Reports

## Seattle Chapter

-by Tom Corcoran

I hope everyone is enjoying the long, warm days of summer, and this newsletter finds you and your families happy and healthy. As your exiting Seattle Chapter president I would like to take a moment to review our accomplishments of the past year.

They say a good leader surrounds himself with great people and I don't know if the former is true but I do know that I was surrounded by some extraordinary, hard-working folks. We have accomplished so much more than I thought was possible when I began my term as president. I want to highlight a few of the successes we had this past year.

The first Student Competition was a huge success, primarily due to the efforts of Eduardo Avelar from the Southwest Chapter. He presented the Student Competition idea to the Seattle Chapter Board and it was approved. With the help of other SEAW members, two teams from UW and one team from Seattle University participated in a competition to build trusses and load test them in October of last year. The teams then presented at the January Student/Firm showcase, with Seattle University taking home the top prize. The Structural Engineering Foundation of WA contributed \$2000 of scholarship money for the event; all three teams received a portion of it. Not only has the Seattle Chapter decided to continue the competition as an annual event, the Spokane Chapter also plans to replicate the competition for universities in eastern WA.

When I look at all the hard work and commitment over this past year, the Northwest Conference epitomizes this level of dedication. In today's environment, in which competition for attendance is so great, Peter Somers and the group of folks who planned the event not only hosted over one hundred attendees, they also managed to make a profit.

The YMF had a terrific year improving their Happy Hour attendance, including inviting Board members and Committee Chairs to share their experience and knowledge with our next generation of leaders. The YMF has also been working with SEFW's STEM Outreach program providing mentors for high school STEM activities such as the Mountlake Terrace HS robotics and truss building classes/competitions. And I'm really excited that the YMF has joined with the ASCE YMF to host a Golf Tournament in August. I see this as a great opportunity to increase revenue to fund their functions, and to work with another outstanding engineering organization.

SEAW worked with the Puget Sound Engineering Council creating a formal list of SEAW volunteer mentors for the PSEC mentor nights. University students are given the opportunity to listen to engineers share stories of their particular profession, including structural engineering. This gives the students an inside look at the professions they are considering pursuing.

The Program Committee did a fantastic job organizing the monthly dinner programs this past year. I was impressed with the caliber of presentations given at each dinner meeting. We were provided not only with the technical aspects, but with a complete global understanding of the topic. For example, one of our presentations included a fascinating inside view of the Alaskan Way Viaduct Replacement Program. The presentation included insight into the engineering and the decision-making process leading up to the project. Another fascinating presentation that we were lucky enough to receive was on the Elwha Dam removal, a chronology of events from the time the dams were built to the time they were removed, including the current Elwha River restoration successes. These programs, and other programs enjoyed at the dinner meetings not mentioned here, provided a wealth of information for all who attended.

At the June Spring Social and Awards Banquet several people were recognized for their contributions to SEAW. I presented nine Presidential Awards to - Darrell Staaleson, Steve Pfeiffer, Paul Brallier, Ardel Jala, Adam Slivers, Kyle Steuck, Andy Taylor, Eric Pope, and Ted Smith. This year's recipient of the Engineer of the Year award is Peter Somers. Congratulations to all.

I couldn't consider this article complete without publicly thanking our Executive Director, Lynnell Brunswig. She saved me more times than I can count with her knowledge, expertise, and humor when it was most needed. Whoever said you can't teach an old dog new tricks hasn't met Lynnell. Thank you Lynnell for showing this old dog several new tricks. Lynnell will be retiring in November of this year. I am sorry for those who come after me that they will not have the privilege of working with her. All our best Lynnell, you'll be missed.

In closing I want to thank you for the confidence you have shown in electing me as your 2014/2015 SEAW Seattle Chapter President. It has been an honor and a privilege serving you. I leave you in the very competent hands of your new president Ted Smith.

So long for now....

## South Central Chapter

-by Daniel Sumerfield

- The chapter held a social event in August; a picnic at one of the member's homes. 10 members attended with their families. Good times were had by all.
- Our October meeting was our first official business meeting. Roland Wright from Hanson Structural Precast was the presenter.
- In November meeting, Roger Roatch presented on APA's new lateral bracing design tool that will be rolled out on their website soon. The meeting was intended to be geared for local building officials, to bring them up to date on prescriptive lateral bracing requirements for light-framed residential construction. Three building officials attended the meeting.
- The subject of our January meeting was the discovery, cause, and repair of the Wanapum Dam Cracking. Presentation was very well received by the group.
- The February meeting was presented by Spraylock Concrete protection. Meeting was well attended.
- In our February meeting, the idea of reserving one or two meetings a year for the SEAW committees to present to the chapter was discussed. The idea was well received.
- In late February, we were solicited by the Mid-Columbia Regional Science Fair to help sponsor their event in the Tri-Cities. Tony Vader volunteered to participate in the judging effort. He reviewed all of the entries and awarded cash prizes to four of the students whose projects involved the application of structural engineering principals.
- The March meeting was a banquet in honor of SC Chapter's 20th anniversary. Jill Shuttleworth and John Tate worked very hard to organize the event and invite attendees. Out-of-town guests included Tim Nordstrom, Cale Ash, Ed Houston, and Ted Smith. Ed Houston gave a presentation on the evolution of building design, from "Designers" to "Architects" to "Engineers."
- The April meeting was a joint presentation by Red-Built and Simpson Strongtie. Red-built discussed best practices for specifying open-web trusses. Simpson discussed new and updated products in their latest catalog.

(Continued on page 4)

# Annual Chapter Reports, cont'd

(Continued from page 3)

- In the May meeting, we showed an NCSEA seminar titled "Concrete with Little or No Shrinkage, Cracking, or Curling."
- Chapter elections were held during the May meeting. John Tate was elected President and Jill Shuttleworth elected Vice President.
- Daniel Sumerfield was selected as the Chapter Delegate for the 2015 Northwest Conference in Boise.
- South Central Chapter will meet again in September. The September, October, and November presenters have already been scheduled.

## **Southwest Chapter**

-by Tim Nordstrom

**Membership:** As of May 21, 2015 the SW chapter has 100 members, 62 of which are SE members.

### **Monthly Meetings**

**September:** Joint Dinner meeting hosted by the ASCE Tacoma chapter. Tour of the Basalite operation in DuPont WA. Well attended by members of both organizations, with interesting discussion ( $\pm 30$ )

**October, November, December :** No meetings were held.

**January:** Joint Dinner hosted by the Mt Rainier CSI chapter. Topic: Program Safe Haven, Vertical Evacuation in WA State. Ocosta Elementary School/Vertical Evacuation Refuge. Presenters: Cale Ash with Degenkolb Seattle, John Schelling, Washington State Emergency Management. Well attended, interesting topic with a lot of discussion afterwards ( $\pm 40$ ).

**February:** Lunch meeting (The Rock Pizzeria) Topic: Galvanizing Steel. Presenter: Randy Wells Galvanizers Company. Attendance ( $\pm 15$ ), held at a new location.

**March:** Lunch meeting (The Rock Pizzeria), Topic was structural engineering in Afghanistan. Presenter: Scott Douglas. Attendance ( $\pm 15$ )

**April:** Joint dinner meeting hosted by SEAW Seattle Chapter. Tour of the Link Light Rail extension to South 200<sup>th</sup> Street. The tour and dinner presentation, attendance ( $\pm 35$ )

**May:** Joint meeting hosted by the Tacoma-Olympia AIA chapter. The event was a full tour of Quest Stadium in Seattle ( $\pm 30$ )

### **Elections:**

Elections are underway for 2015-2016. It appears that we will fill all the positions except for secretary. Eduardo Avelar will be the next President of the SW Chapter.

### **Notes:**

This year, the SW Chapter gained a new Administrative Assistant, Jennifer Whipkey. This has been working out great especially for getting information out on time.

## **Spokane Chapter**

-by Ted Bernards

The success of the Spokane Chapter is a direct result of the active participation of our membership. Over the past year, the general meeting attendance has been strong again – averaging forty-five to

fifty participants. We should be proud of this as it represents nearly half of our total membership. If we take into account scheduling conflicts such as meetings, vacations, and deadlines, I suspect that over three-quarters of our members are actively involved. This year featured many informative presentations, including: Cost Estimating and Constructability Reviews; The AASHTO LRFD Bridge Design Specification; Unbonded Post Tensioning in Building Construction; and Harnessing the Power of the AISC Design Guides to name a few. All of the presentations were provided by leading experts in their respective field.

Looking ahead, there are many exciting opportunities to get involved with SEAW. The Spokane Chapter would like to increase its involvement with local schools. At the college level, we would like to bring the Student Competition to Gonzaga, WSU, and U of I (see the January Equilibrium). At the high school and middle school levels, we would like to continue to support local math and science programs, especially those receiving grants from SEFW (Structural Engineers Foundation of Washington). The Spokane Chapter would also like to increase its participation in the statewide committees. One idea to assist with this is to have a 'committee roadshow' visit Spokane. This will allow our members to meet the committee chair members in person and to hear what they are working on in the hopes that our Chapter will provide more active participants.

The annual change in leadership will be as follows:

Outgoing Past-President: Jeff Mitchell of Coffman Engineers

Past-President: Ted Bernards of TD&H Engineering

President: Kevin Cary of FLSmith

Vice President: Matthew Thomas of DCI Engineers

Treasurer / Secretary: Joe Scholze of LSB Engineers

Directors: Darcy Morden of Womer and Associates & Jeff Van Leuven of RSP Structural Systems

I hope that you all have a great summer and I'm looking forward to seeing you all again in the fall.

## **Call for Nominations: SEAW LIFETIME SERVICE AWARD**

Nominations for the SEAW Lifetime Service award may be made by any SEAW member to the State Board of Trustees by November 1st of each year. Qualifications of a nominee include: SEAW Member; service to SEAW on a statewide level; sustained, significant, multiple contributions; committee service; and nurturing and mentoring abilities. The award may be made posthumously.

If nominations have been submitted, the SEAW State Board will convene a selection panel consisting of the four most recent awardees (if possible) and a representative of each chapter to meet prior to the January State Board meeting.

The award will be presented at the appropriate chapter's year-end meeting or at the Northwest Conference. The award will consist of a unique trophy or plaque, a cash award, and a contribution in the awardee's name to the SEAW Endowment Fund.

Send your nomination by e-mail to the SEAW State Board of Trustees at [seaw@seaw.org](mailto:seaw@seaw.org).

# Structural Engineers Foundation

The Structural Engineers Foundation of Washington (SEFW), chaired by Dave Peden of Spokane, had an exciting 2014-2015 year.

The annual Fall Forum, SEFW's central educational event and fundraiser, was held in September 2014 at the Grand Hyatt in Seattle, in conjunction with the SEA Northwest Conference. The Forum featured Avery Bang, CEO, and Brooke Shore, Corps Engineers, of Bridges to Prosperity. Their presentation, "Build to Educate," highlighted their international nonprofit organization and their experiences building bridges in third-world countries. Since its 2001 inception, "B2P" has facilitated construction of more than 160 bridges in 18 countries. The Forum helped serve SEFW's mission to "enhance the profession of structural engineering" by showcasing an organization that uses structural engineering to serve people of the world.

At the Forum, SEFW announced a partnership with Washington STEM, a statewide organization that promotes science, technology and math subjects in Washington schools. The partnership allowed SEFW to fund field trips for 80+ high school students. In both April and May 2015, two groups of students from the Highline School District traveled to the Seattle Center where volunteers from DCI Engineers, the SEFW Board, and the SEAW YMF led a structural engineering-focused tour of the Pacific Science Center, Space Needle, and KeyArena. Students were introduced not only to the buildings themselves, but also to information about careers in structural engineering and associated technical fields such as CADD.

In November 2014, SEFW was the primary funding source for the first annual SEAW Student Competition, which included three teams of students from the University of Washington and Seattle University. They designed and built wood trusses with provided materials and tested them to failure. The students presented their experiences at the January 2015 Student Showcase event.

In January 2015, in response to an RFP seeking to fund programs that promote structural engineering,

SEFW funded a popsicle stick bridge building competition in the Mead School District in Spokane. More than 350 students in grades 9-12 at Spokane's Mead High School and Mt. Spokane High School designed and built 280 popsicle-stick bridges. After two rounds of load competitions, the winning bridge held more

than 400 pounds! SEAW-Spokane provided several member judges for the final event in February.

Also in response to the RFP, SEFW funded a similar program at Mountlake Terrace High School, a STEM school in the Edmonds School District. Using balsa wood, 90 students designed and constructed six-foot-long trussed bridges to bear a 400-pound load. Two local SEAW YMF volunteers served as mentors. The winning bridge held 600 pounds before failure!

Also at MTHS, SEFW provided funding and a YMF mentor for the FIRST Robotics team. Thoughtful structural engineering principles were applied to design the body and moving arms for the 120-pound robot. The team made it all the way to the state championship!

In total, in 2015, SEFW-funded activities helped 545 high school students from three different school districts learn about structural engineering.

In June 2015, two SEAW scholarship recipients were announced. Hillary Tervet, EIT, of Seattle University and Jonathan Waldrip, EIT, of Washington State University, each received a \$3,000 award funded by SEFW. Including this year, the SEAW scholarship program has presented \$131,000 in awards to a total of 61 structural engineering students.

SEFW's annual Fall Forum is planned for Tuesday, November 10, at Benaroya Hall in Seattle. The featured speaker will be Ahmad Rahimian of WSP Group, who will discuss his experiences working on the Freedom Tower on the World

Trade Center site in New York. His presentation will be a great opportunity to hear the challenges of designing such a culturally significant structure for the United States. In addition to A/E/C professionals, the lecture will be of interest to university students, high school students, and many others in the general public.

SEFW continues to seek new ideas and projects to help fulfill its mission. It is a great time to promote structural engineering. (And, check soon for SEFW's newly designed website!)



SEFW Vice Chair Mark D'Amato presents Washington STEM's Gillia Bakie with a grant to fund a partnership to promote structural engineering in Washington schools.



Several volunteers from DCI Engineers use images and a wooden model to explain the structural engineering of the Space Needle to several high school STEM students.



A Mead School District student in Spokane tests his popsicle stick bridge to failure in a competition funded by SEFW.

The Structural Engineers Foundation of Washington was founded in 2010. A 501(c)(3) charitable organization, its mission is to enhance public safety and advance the profession of Structural Engineering through Scholarship, Research, Education, and Outreach.

# Seattle Chapter Engineer of the Year



The Seattle Chapter of the Structural Engineers Association of Washington named Peter Somers as its Engineer of the Year Award for 2015. The award was presented by Ed Huston at the June 22<sup>nd</sup> Seattle Chapter Social and Awards Event, held at the Lake Union Café in Seattle.

Prospective Engineer of the Year awardees are considered for their visibility to the profession, technical expertise, ability to nurture the professional

development of others, and service to SEAW.

Peter Somers is a Principal with Magnusson Klemencic Associates in Seattle. A member of SEAW since 2001, Peter has just completed a long and successful term of service on the Seattle Chapter Board, which he began as a director in 2006-2008. He returned to the board as vice president and program chair in 2012, and went on to serve as Chapter president in 2013, and past president in 2014. He is a long-time member of the SEAW

Earthquake Engineering Committee, participated in the planning and execution of the successful 2007 and 2014 SEA Northwest Conferences in Seattle, serving as chair of the latter.

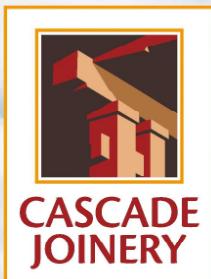
Nationally, Peter has served on the ASCE 41-13 committee and is Vice Chair of the ASCE 41-17 committee, and is a voting member of the NCSEA IEBC subcommittee of the Code Advisory Committee.

Peter's mentorship reach extends to and far beyond the younger engineers at Magnusson Klemencic Associates. He has regularly shared his expertise with the engineering community at large by his presentations at SEAW Seismic Design Seminars in 2002, 2004, 2005, 2007, and 2013, as well as at three ASCE 41-13 seminars.

On behalf of the Seattle Chapter board and membership, congratulations, Peter, and please accept a heartfelt "Thank you" for all of your efforts on behalf of SEAW.

*The Seattle Chapter Engineer of the Year award was established in 1982 by then president Bill Mooseker. The Engineer of the Year selection committee is chaired by a Seattle Chapter Member SE who is a past recipient, and includes the sitting Seattle Chapter President and the last five recipients. A complete list of recipients can be viewed on the SEAW Hall of Fame at <http://www.seaw.org/hall-of-fame>.*

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		Lower Flute	✓	✓	✓	✓	✓	✓
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		Upper Flute	✓		✓			
		Lower Flute	✓		✓			
B-DECK	SAND-LIGHTWEIGHT CONCRETE OR NORMAL WEIGHT CONCRETE OVER STEEL DECK (MINIMUM 3,000 PSI)	Top of Deck Minimum Topping Thickness		2-1/2"				
		Upper Flute	✓	✓	✓		✓	
		Lower Flute	✓	✓	✓		✓	

\* See individual ICC-ES Reports for details on each condition



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# Annual Committee Reports

## Disaster Preparedness & Response

I'm excited to report good progress on a number of long term Committee initiatives. Development of a Statewide volunteer registry, tentatively named Washington Safety Assessment Facility Evaluation (WASAFE), was begun in early 2015. We are following the recommendations of the *Post Disaster Safety Assessment Program (SAP) Development for the State of Washington* (Dec 2014), a report that summarizes the volunteer emergency workers and non-governmental organization capabilities. The program will be similar to programs in Missouri and California in that individuals will be required to take an approved ATC-20 class that should include Incident Command training, and a refresher course every 5 years. For engineers to be "full members", a PE license will be required, but those without a PE or SE will be able to register. Thanks to the WA Department of Health (DOH), we will be using the DOH WAServe electronic system for registration, call-up, and maintenance of our volunteers' list. A test of the registry was performed in June, with an automated email message to those who are registered in the California Safety Assessment Program (SAP) Evaluator program. In addition to the DOH, our partners include AIWA, ASCE, and WABO.

Committee members Scott Douglas, Paul Braillier, and Joyce Lem are representing SEAW in Cascadia Rising 2016, a 2-year exercise that culminates in a 4-day simulation of a 9.2 magnitude subduction zone earthquake and Washington Coast tsunami. The simulation will take place in June 2016. The intent is to model and practice the response of regional emergency management agencies with other. Our committee hopes to

have our statewide volunteer program in place by then so we can practice call-up(s) using WAServe. Imagine a 4-day Hunger Games and the following "inject" event on Day 2: "This is Seattle DPD calling the King County Emergency Operations Center. We are reporting widespread damage to buildings in the downtown core, Pioneer Square, and Belltown and request the assistance of 50 structural engineers for rapid building safety assessments...." The County could respond by using WAServe and working with our NGO coordinators to access SEAW volunteers in the registry. The committee also intends to use the 2-year planning time for the exercise for networking with our State's emergency management community. Our goals are for us to become more familiar with them and for them to become aware of our capabilities. Thus far we've received a warm welcome.

This year we also asked and learned from the State Attorney General's Office that the Good Samaritan Law that protects individual volunteers does not extend to NGOs like SEAW. Paul Brallier is leading the effort to get legislation passed to protect NGOS, garnering support from ASCE, WABO, and AIWA.

Individual committee members taught several private ATC-20 trainings this year. One SEAW class in ATC-20/45 and California SAP Evaluator was taught in March by Paul Brallier and Eduardo Avelar. Thanks to everyone who attended and who helped with putting on the classes. Our ATC classes include California's SAP Evaluator training to give students the opportunity to join California's volunteer registry. We will include SAP training and use California's registry -it's free to join-until our Washington program is up and running.

Separate Disaster Response Funds were formally established by SEAW and by SEFW. These funds may be used for

reconnaissance missions sponsored by SEAW, subject to written guidelines authored by the committee and approved by the State Board. Individual donations to the SEFW fund are tax-deductible.

Special thanks this year to those who attended and participated in committee meetings and activities. In addition to those mentioned above, my personal thanks to: John Riley, Scott, Luke Ruggeri, Dave Swanson, Erik Bishop, Meg Haley, Cale Ash, Jon Siu, Jill Shuttleworth, Ed Huston, and DOH partner Kevin Scarlett. Welcome also to Jackie Celin (hurray she's back) and new member Brad Ehlers.

The SEAW Committee coordinates and works with the AIA Disaster Preparedness and Response Committee. Our committee is a mix of consulting engineers, building officials, and our AIA partners. Announcements, meeting notes, and agendas are sent to the 50+ on the Committee's email distribution list. The Committee meets monthly in downtown Seattle, averaging 6 to 10 attending. Audio participation is available via GoToMeeting. We need and welcome more committee members to help! For more information, contact Joyce Lem at [joyce.lem@hdrinc.com](mailto:joyce.lem@hdrinc.com).

## Earthquake Engineering

Over the past year the Earthquake Engineering Committee (EEC) has worked on several important issues related to the practice of earthquake engineering in Washington State. The EEC has also sought to provide timely information to SEAW members through presentations and announcements at EEC meetings. Some EEC activities over the last year include:

◊ Studied best practices for design of connections between flexible diaphragms and concrete or masonry walls;

◊ Discussed a code change proposal for hold-down force amplification in the design of wood framing on post-tensioned concrete podium slabs;

◊ Studied lessons learned from the Napa, California earthquake; and discussed volunteer responses of EEC members to the recent Nepal earthquake;

◊ Participated in two ballots on revisions to the 2015 NEHRP Seismic Provisions;

◊ Reviewed and assisted the Seattle Department of Planning and Development with new definitions of building height for seismic design classifications;

◊ Coordinated EEC activities with activities of the Washington Chapter of the Earthquake Engineering Research Institute;

◊ Hosted presentations at EEC meetings on topics ranging from the UW "M9 Project", to research on braced steel frames, to rapid construction of precast concrete structures.

EEC meetings are generally held every two months, on the first Tuesday of the month. Announcements of meeting dates and times are made in Equilibrium. The next three meetings of the EEC will June 30, September 1, and November 3. Meetings are from 12:15 to 1:45, and they are generally held at the 4th floor conference room of the Westlake Center Office Tower, 1601 Fifth Avenue, Seattle. All SEAW members are welcome to attend. If you would like to be on the EEC e-mail list, contact the EEC chair, Andy Taylor, at [andrew.taylor@kpff.com](mailto:andrew.taylor@kpff.com).

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# Annual Committee Reports cont'd

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## **Education**

The Education Committee is chaired by Ardel Jala. This committee was responsible for organizing the technical sessions for the Northwest Conference hosted by SEAW in Seattle on Sept 18-19, 2014. There were (9) speakers covering a variety of topics. The committee would like to thank all the speakers and volunteers for assisting with this event.

The committee assisted with abstract review and securing speakers for technical sessions of the SEAOC 2015 Convention to be held in Bellevue, Washington this September 9-12.

The committee has been dormant this spring but will meet every other month as planning begins for a statewide Foundations seminar. New members are encouraged to join at any time. Meetings are held in downtown Seattle and concurrently via GoToMeeting. If you are interested, please contact Ardel Jala at [ardel.jala@seattle.gov](mailto:ardel.jala@seattle.gov).

## **Legislative Committee**

As I am writing this, our State Senate is taking up the capital budget just passed by the House. This year has been a series of special sessions, extensions and not a lot of action. A transportation package Spokane Chapter members, ACEC Washington will be hosting a Legislative update July 21, 2015 from 8:30 am to 10:30 am in the Landau Room at The Lincoln Center. Admission is free.

### Legislative Update for Eastern Washington

Cliff Webster will recap the session and assess the impacts on the A/E business

community. He will focus on the priority issues, but will also report on other issues that were debated this year that impact the design industry, and developments regarding government competition.

Note: Cliff Webster is a lobbyist for AELC of which SEAW is a member organization.

During the 2015 legislative session in Olympia, SEAW's Legislative committee tracked 94 bills total (50 Unique, remember a bill has to be passed in both the house and senate. Therefore each bill has at least two versions, sometimes they are similar, sometimes they are not).

So far, none of the bills being tracked by the SEAW Legislative committee have made it through to the Governor's desk for a signature. This is not to say that there hasn't been bills passed, they just are not pertaining to the practice of Structural Engineering in Washington.

Three items of note are:

- ◊ The capital budget appears to be passing at the final minutes of the 2<sup>nd</sup> Special Session, preventing a government shut down over the 4<sup>th</sup> of July weekend.
- ◊ A Transportation package appears to be a possibility during the current session.

2015-17 Transportation Negotiated Compromise New Law Budget Striking Amendment is now available on <http://fiscal.wa.gov/>

Project List, <http://fiscal.wa.gov/BudgetTProjList.aspx>

Bills & Documents, <http://fiscal.wa.gov/BudgetTBillsSenate.aspx>

◊ The "Good Samaritan Law". The executives of AIA, SEAW, ASCE and WABO are reviewing the final draft of the proposed changes to Washington

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**YOU can help SEAW uphold the highest standards  
of Structural Engineering.**

**Join a Committee TODAY!**

## **SEAW Committee Chairs**

### **Building Engineering**

Chris Duvall

[chrisd@cplinc.com](mailto:chrisd@cplinc.com)

### **Code Advisory**

John Hooper

[jhooper@mka.com](mailto:jhooper@mka.com)

### **Disaster Prep/Response**

Joyce Lem

[joyce.lem@hdrinc.com](mailto:joyce.lem@hdrinc.com)

### **Earthquake Engineering**

Andy Taylor

[andy.taylor@kpff.com](mailto:andy.taylor@kpff.com)

### **Education**

Ardel Jala

[ardel.jala@seattle.gov](mailto:ardel.jala@seattle.gov)

### **Existing Buildings**

Bryan Zagers

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### **Legislative**

Tim Nordstrom

[timn@starseismic.net](mailto:timn@starseismic.net)

### **Professional Practices**

Mike Bramhall

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### **Public Information**

Darrell Staaleson

[dstaal@staaleng.com](mailto:dstaal@staaleng.com)

### **Scholarship**

Kevin Solberg

[kms@mka.com](mailto:kms@mka.com)

### **Snow Load Engineering**

Matt Leslie

[matt@leslieengineering.com](mailto:matt@leslieengineering.com)

### **Strategic Plan Monitor**

Cale Ash

[cash@degenkolb.com](mailto:cash@degenkolb.com)

### **Sustainability**

Kyle Steuck

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### **Technology**

Lynnell Brunswig

[seaw@seaw.org](mailto:seaw@seaw.org)

### **Western Council**

Ed Huston

[huston@smithhustoninc.com](mailto:huston@smithhustoninc.com)

### **Wind Engineering**

Scott Douglas

[sdouglasscott@gmail.com](mailto:sdouglasscott@gmail.com)

## **Liaisons/Representatives:**

### **PSEC**

Peter Opsahl

[popsahl@lundopsahl.com](mailto:popsahl@lundopsahl.com)

### **NCSEA**

Chun Lau

[cclau@comcast.net](mailto:cclau@comcast.net)

### **BSSC**

Tom Xia

[txia@dci-engineers.com](mailto:txia@dci-engineers.com)

### **SEAW/WABO**

Charlie Griffes

[charlie@ctengineering.com](mailto:charlie@ctengineering.com)

### **Structural Engineers Foundation**

David Peden

[peden@coffman.com](mailto:peden@coffman.com)

### **WA Seismic Safety Committee**

Stacy Bartoletti

[sbartoletti@degenkolb.com](mailto:sbartoletti@degenkolb.com)

# Annual Committee Reports, cont'd

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State law RCW 38.52.180. This law is meant to provide good Samaritan coverage for NGO's and coordinators preparing for a disaster. With final approval and signatures the law will be sent to the AELC for presentation to the State Legislature. Changes are due by July 15, 2015.

The Legislative Committee will be helping move these changes through the legislature.

If you would like more information please contact Tim at [timn@starseismic.net](mailto:timn@starseismic.net).

## Sustainability

The Sustainability Committee seeks to educate members in the aspects of sustainable design that impact structural engineering, including codes, local projects, design trends, and new technology. We conduct research and compile information to share with the committee and association at large via articles and lectures.

We hold face-to-face meetings in downtown Seattle every month, with a summer break. See the SEAW events calendar or Equilibrium for dates and topics. Web and voice conferencing are available for those who are interested in joining remotely. There are about 10 active committee members with an additional 40 corresponding members.

In addition to regular meetings, we have toured local projects hosted by the design teams. This year, we toured AutoSport, an adaptive reuse project in South Lake Union (Lund Op-sahl) and Block 34, a new building with historic façade preservation (CPL), also in SLU.

The past year has focused on energy use and carbon impacts. These impacts are related to the ongoing operational energy use as well as the energy and materials used to construct a building. The commit-

tee has:

- ◊ Published an Equilibrium article on the energy code and provisions about continuous insulation. (Rachel Vranzian/CPL)
- ◊ Attended a thermal bridging seminar as a committee as part of the energy code work.
- ◊ Hosted meetings with Architecture 2030, Climate Earth, and MKA on the latest developments in Life Cycle Analysis (LCA) for buildings, and in particular the role and future of Environmental Product Declarations (EPDs) – the 'nutrition label' for environmental impacts of building products.

Looking forward, we are working on a project with concrete mix designs to use as a baseline for LCA activities. Our research on thermal bridging will continue, including keeping in touch with NWCMA on their efforts to modify the energy code to account for items like veneer brick ties. The committee is also planning activities related to the expanding use of LEED v4 when the old version sunsets in October 2016.

Additional committee information, upcoming events, and other news and resources are posted to our committee blog at <http://seawsustainability.blogspot.com>, or contact Kyle Steuck ([ksteuck@degenkolb.com](mailto:ksteuck@degenkolb.com)) for more information.

## Public Information

### 1. Facebook.

Our Facebook page is doing a little better. We are currently at 1,774 'Likes.' Finally, because I was beginning to despair that we would ever get off the ground. The question always is, "If you tag me in a photo, will everyone one in the universe be able to see the picture? And will it steal my soul?" The answer is, yes, everyone will be able to see

your picture. But it probably won't steal your soul. So what does that 1,774 number mean? Well, since the average person has about (100) friends, it means that we can reach quite a few people with every post.

Now what we need is content, that is stories. For Facebook, that means a few pictures with a paragraph. The pictures need to have a description and the names of the people. The best photos, that is the photos that generate the most interest are ones with people doing interesting things. Like our recent site visit on the new section of Light Rail Station at Angle Lake to the South of SeaTac which shows our own Scott Douglas who pronounced the rails "Afgan Good." – 466 'Likes.'

Here is the link to the picture of Scott:

<https://www.facebook.com/148377318650886/photos/a.274927022662581.1073741835.148377318650886/469679863187295/?type=1&theater>

Not as good as the Facebook page for USMA at West Point, but better than last year. And please! Don't post a picture of a meeting! Unless people are engaged in doing something interesting.

The people I talk to say they are all interested in hearing about SEAW and our work. This is your opportunity to show the community a little about your company or the work you do. You can post a connection detail you designed or a photo of some archaic framing you found during an assessment of an old building. Anything about engineering. Don't try to make it perfect. Just take the picture, write a sentence, then post it. Done!

### 2. PIC Communications.

I attempted to switch communications to Facebook and

then to Google Groups. Well, that flopped. Sorry about that guys. We are going back to email until we can find something better.

## 3. Mentor Nights.

I was asked to form a committee of volunteers who were committed to participating in PSEC Mentor night. We currently have twelve and we can field four engineers to any Mentor Night. We had two successful Mentor Nights and we had a lot of fun answering questions from university students who were interesting in studying civil/structural engineering. It was a great way to get to know other members SEAW.

Shalini Prochazka from Simpson Strong-Tie participated and brought samples of Simpson connectors.

Noopur Jain from AECOM brought a 3D model of the bridge she was working on.

Tim Nordstrom from StarSeismic brought structural drawings and an Excel spreadsheet and showed an interactive design for a BRB's.

Darrell Staaleson from Staaleson Engineering, P.C. brought a structural drawing of a heavy timber truss with shear plate connections and a mockup of the shear plate assembly.

The students were greatly interested in all our presentations. And I think our enthusiasm for structural engineering was contagious. We are looking forward to doing six Mentor Nights next year.

Darrell Staaleson, P.E., S.E.  
[dstaal@staaleng.com](mailto:dstaal@staaleng.com)

## Professional Practices

The committee has been on hiatus and will resume in August. Contact Mike Bramhall, chair, at [mbramhall@case4n6.com](mailto:mbramhall@case4n6.com) for information.

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# Annual Committee Reports, cont'd

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## Scholarship

The SEAW Scholarship Committee has been active over the past year promoting the scholarship to university students, reviewing applications, and interviewing candidates. Current membership consists of Siri Ashworth, Jessica Jeness, Bill Mooseker, Dave Peden, Ben Piermattei, and Kevin Solberg. The committee reviewed six applications in March for the 2015 award. The students were from UW (1), WSU (1), Gonzaga (2), and Seattle University (2). Three candidates were shortlisted and interviewed on April 15th. The committee unanimously voted for two candidates to receive a scholarship award. A biography of the recipients can be found elsewhere in this publication. Due to the national trend of increased tuition costs, the committee has recommended to the board that the scholarship award be increased to \$5,000 (currently \$3,000). This is slated to take effect starting with the 2016 award. The committee generally meets via conference call at various intervals throughout the year, with the busiest time between December and April. The committee conducts candidate interviews in Seattle and/or Spokane member offices.

Dave Peden stepped down as chair in 2014, but remains an active member of the committee. We thank him for his dedicated leadership and service to SEAW.

Kevin Solberg, Chair  
[ksolberg@mka.com](mailto:ksolberg@mka.com)

## Wind Engineering

The SEAW Wind Engineering Committee (WEC), with 39 members on the mailing list, has continued meeting every two months, typically on the third Thursday of the month in downtown Seattle. All WEC meetings are broadcast over

Go-to-Meeting, thus if SEAW members are not able to participate in person they are encouraged to participate remotely, particularly members of the South Central or the Spokane Chapters who at present have no representation on the WEC.

Don Scott, a SEAW Southwest Chapter Member, is the ASCE 7 Subcommittee on Wind Loads Chair. Don has summarized many of the change proposals and resulting committee votes for the soon to be published ASCE 7-16. At present ASCE 7-16 is scheduled to be out for public comment this coming October. Members should be prepared for significant changes to the ASCE 7-16 Wind Chapters, including changes in the wind speed maps, component and cladding factors, and added design criteria for attached canopies.

At present the committee is working on an alternative approach to determine Exposure D in the Puget Sound Area. This approach will not be as general or conservative as the present ASCE 7-10 Section 26.7.3. A white paper may be developed to document this alternate approach.

The committee has also started generating Kzt maps, similar to those already developed for the cities of Seattle, Tacoma, and Mercer Island. These are being developed for jurisdictions that are willing to adopt the maps as part of their code. These maps are conservative, the maps will make clear that the structural engineer will always have the option of calculating more precise Kzt values.

The last item on the WEC's agenda is to quantify wind speeds for the special wind regions along the Washington Coast and Columbia River Basin. At present the SEAOC Wind Committee is addressing their special wind regions in California. The SEAW WEC will

be monitoring SEAOC's various approaches on this effort before embarking on this task.

All members, whatever their level of experience, are encouraged to participate at WEC meetings either in person or via Go-to-Meeting. Please contact the WEC chair, Scott Douglas [sdouglasscott@gmail.com](mailto:sdouglasscott@gmail.com), to join the WEC and to receive information on Committee activities and actions.

## WABO-SEAW

The SEAW/WABO committee continues to meet once a month with about five SE's and five WABO representatives present at any given meeting. The primary effort has been the production of White Papers on various issues that warrant attention from the WABO or SEAW members. These White Papers can be found on the SEAW website and should be of interest to all.

White Paper 11 on the subject of "Designing for Heavy Vehicle Loads on vaults, bridges, buildings and structures" was issued in March.

White Paper 10 on the subject of "Guards and Connections" was issued last year and highlights the need for proper structural design of guards.

The committee is currently working on several new White Papers including design for ballasted rooftop elements such as solar panels; deferred submittals; and design procedures for wood frame on podium structures.

Previous White Papers have addressed such interesting topics such as plan review philosophy, electronic signatures, permit submittal requirements, and design of hold-downs in podium wood frame structures.

We typically meet from 11:30 to 1:00 on the second Thursday of the month at Bellevue City Hall. Contact person is Charlie Griffes, [charlie@ctengineering.com](mailto:charlie@ctengineering.com)

## Building Engineering

The Building Engineering Committee (BEC) is looking for practicing structural engineers to participate in our committee. Join us! We meet periodically throughout the year working with the practicing engineers in this state on code development and clarifications. We also advise on future code changes to NCSEA. The BEC needs your participation! Conference calling and remote access will be made available. We invite enthusiastic and ambitious structural engineers from across the state to join us in making a difference. Contact Chris Duval for more information: 206-618-6063 or [chrisd@cplinc.com](mailto:chrisd@cplinc.com).

## State Finance Report

As Lynnell's planned retirement approaches, the State and Seattle Chapter leadership have decided to contract with a firm that specializes in management of non-profits organizations to handle the executive and administrative functions that Lynnell has provided for many years. Lynnell and your treasurer will be working with the new firm during the transition, which will include changing the bookkeeping from Quicken to QuickBooks. We're expecting the Treasurer position to become even more of an oversight position than it is now.

Each year the State Treasurer develops a budget and cash flow projections so the board can understand the financial conditions the organization is likely to encounter during the year. I'm sure no one will be surprised to hear that the expenses of the organization go up a little every year. A modest dues increase of \$10 per year for the state organization was approved and went into effect

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## Annual Committee Reports, cont'd

(Continued from page 11) last year. The increased income from the dues increase helps pay for the expenses of the organization, but dues income alone doesn't come close to paying our expenses.

Income from SEAW Continuing Education Seminars provides a critical but highly variable amount of income, depending on how many seminars are presented and how many people attend them. Gross income from a couple major seminars sometimes exceeds the State's annual dues income. SEAW's intent is to present at least two major seminars each year, in addition to periodic ATC-20 and ATC-45 presentations. However, last fall the NW Conference technical program was the focus of the committee and we didn't have a State-sponsored fall seminar. Unfortunately for the State, net proceeds from the NW Conference are split among the member organizations, which in Washington is the Chapters and not the State. This spring's intended

State seminar didn't happen either. Our Continuing Education committee is now, as directed by the State Board, developing an all-day seminar on a variety of Foundation Systems. We're eagerly looking forward to that event, both in terms of it being a valuable educational experience and it being a much needed financial boost to SEAW. SEAW seminars provide among the most PDHs for the buck. More importantly, our volunteer colleague presenters provide us with the best and most useful information per hour of our time. I wouldn't want to miss this one. I'm also looking forward to the symposium being planned by our members who were involved with the earthquake disaster relief work in Nepal. Watch for information about it.

As usual, The State SEAW provides funding to continue the work of the Earthquake Engineering Committee, the newly reactivated Wind Engineering and Building Engineering Committees, the Education Committee, the Scholarship Committee, the Disaster Preparedness and

Response Committees, the Existing Building Committee, and the Public Information, Snow Load and Sustainability Committees; to support the Architect Engineer Legislative Council, National Council of Structural Engineers Associations and Western Council organizations; to produce a newsletter; and to support the scholarship fund and administrative functions. The Technology Committee continues to improve the website and database.

Thanks to all who serve on all the committees for the benefit of our profession.

We still have 143 members who have not paid their 2015 dues. If you're one of them...please pay your dues. You'll find directions for logging in and paying elsewhere in this newsletter. SEAW thanks all of you who have already paid.

Please contact me with any questions you may have about SEAW's finances.

Ted Smith, Treasurer

[smith@smithhustoninc.com](mailto:smith@smithhustoninc.com)

### Snow Load Engineering

The past year has been a transition year for the Snow Load Engineering Committee. Committee chair John Tate resigned his post after many years of service, and his former position remained vacant for several months before Matt Leslie, of the South Central Chapter, volunteered as the new committee chair. So far, aside from Mr. Leslie, there are no other official members of the committee, although some SEAW members have expressed an interest, and no meetings have been held since the transition.

It is anticipated that the upcoming year will be fairly eventful, as the Committee is planning on beginning the process of updating the current SEAW Snow Load Map to include more recent snowfall data, including the significant 1996-97 snow event.

Anybody interested in joining the Snow Load Committee is encouraged to contact Matt Leslie,  
[matt@leslieengineering.com](mailto:matt@leslieengineering.com).

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## First Annual ASCE/SEAW Golf Tournament

**Friday, August 28, 2015**

**Willows Run Golf Club, Redmond, WA**

11:00 AM	Event check-in opens
11:30 AM—12:45 PM	Putting contest; driving range open
1:00 PM—6:00 PM	Golf Tournament
6:00 PM—7:00 PM	Dinner social, award ceremony and raffle

The Younger Member Forums of ASCE and SEAW have joined forces to hold this first annual joint golf tournament. All are welcome! Bring your clients and colleagues for a fun afternoon of golfing and enjoying our beautiful summer weather. Cost is \$150 per person, or \$500 per team. For complete information, including registration and sponsor opportunities, visit

[http://www.seattleasce.org/ymf/ymf\\_golf\\_tournament.php](http://www.seattleasce.org/ymf/ymf_golf_tournament.php)

# Annual Committee Reports, cont'd

(Continued from page 12)

## **SEAW Strategic Plan**

Since being approved in early 2012, the SEAW Strategic Plan has served as a valuable document for the State Board. The five main goals identified in the plan have become regular agenda items that guide each board meeting. One of my roles as Past President over the last year was to serve as "strategic plan monitor." In this capacity I provided regular status updates to the board on progress towards the following goals:

### **Continuing Education/ Professional Development**

Developing and delivering educational opportunities for members is a core function of SEAW. Our members ranked this most-highly in the surveys leading up to the 2011 strategic planning activities. The board recognizes this importance and places high priority on ensuring regular access to seminars with a goal of having two state-wide offerings annually. Much of the planning work for these seminars takes place within the Education Committee who then coordinates with other committees or groups for developing the technical content.

### **Membership Growth and Engagement**

A sign of a healthy member organization is the overall growth and engagement of the membership. Our members typically engage with the organization during committee meetings, lunch/dinner meetings, and seminars. The state board maintains focus on having an engaged membership as a vehicle for sustained growth. SEAW will likely surpass 1,000 members for the first time in the very near future, this indicates that our members feel that being part of SEAW is valuable to their careers.

### **Advocacy and Public Outreach**

One of SEAW's outward-looking goals is that the structural engineering profession is visible, respected, and highly valued within the design and construction industry and the general

public. The Public Information Committee has largely led this effort although partnership with the Structural Engineers Foundation of Washington and the YMF also provides opportunities to engage with the public. There are many other events in which SEAW could engage such as science fairs, mentoring programs, and social media that the organization and our members can consider to increase visibility of our profession.

### **Leadership Succession and Committee Effectiveness**

Many of our members find personal and professional satisfaction from taking active roles in committees or rising to leadership roles within the organization. In order to encourage this participation and be respectful of the volunteer efforts, SEAW has focused on providing tools, procedures, and technologies (e.g. GoToMeeting) that reduce the burden on our volunteers and/or allow them to become more effective in their roles. This is an ever-evolving effort as the needs of the committees, the organization, and the individuals leading them change over time.

### **Optimize Organizational Effectiveness and Structure**

The last goal identified in the strategic plan is to achieve the best structure of the State Association, Chapters, and Committees to accomplish SEAW's mission and vision, and serve members most effectively. To put it another way, we want the organizational structure to support the goals of SEAW and not impede progress towards them. As the SEAW changes over time, so too will the organization behind it.

I have personally enjoyed my time working with SEAW at both the chapter and the state levels and strongly believe that strategic planning has been a valuable effort for the organization. SEAW plans to engage in a comprehensive update to the plan within the coming year. There will be formal opportunities to provide your input but in the meantime I encourage you to let us know how we have done over the last several years and where we can improve. Please pass along your input to your chapter leadership, the state board, or send me an email at [cash@degenkolb.com](mailto:cash@degenkolb.com).

Respectfully submitted,  
Cale Ash  
2014-15 SEAW Strategic Plan  
Monitor

## **Western Council**

The Seattle Chapter hosted the 2014 Northwest Conference of Structural Engineers at the Grand Hyatt in September of last year. Peter Somers, conference chair, and his committee presented an educational, technical, and professional conference which had great opportunities for social interaction. The Structural Engineers Foundation of Washington provided its 2015 Forum as the Thursday night program. The Friday night dinner and cruise on Lake Washington provided a great way to wrap up the conference and unwind.

The Northwest Conference Council (NWCC) met on September 18, 2014. The SEAL, as the next conference host chaired the meeting. The NWCC is the policy making body for the annual conferences. SEAL will host the 2015 Conference in downtown Boise on July 16 -18. The conference theme is "Jump Into the Future". I hope to see many of you there.

-Ed Huston, NWCC Seattle Chapter Representative  
[huston@smithhustoninc.com](mailto:huston@smithhustoninc.com)

## **NCSEA**

The National Council of Structural Engineers Associations (NCSEA) is now in its 23<sup>rd</sup> year of existence, and is currently comprised of 44 regional or state structural engineering associations throughout the United States.

I reported from my last annual report that there are some of our SEAW members that do not realize that they are members of NCSEA through their membership with SEAW. Guess what, there are still SEAW members that do not realize that they are members of NCSEA. One of the benefits of the NCSEA membership is the STRUCTURE magazine that is a publication by NCSEA to its members. One indication that you are a member of NCSEA is receiving the STRUC-

TURE magazine at your mailing address listed on your SEAW membership. Also, a reminder that one of the major benefits being a member of NCSEA is that you are entitled to receive discounts up to 25% (ICC member rates) on publications purchased through ICC, including Building Codes and referenced standards since SEAW is a member organization of NCSEA.

This year's NCSEA annual conference will be held in Las Vegas, NV from September 30 to October 3. The annual conference has been renamed to NCSEA Structural Engineering Summit to reflect that there are many seminars/workshops that will provide valuable continuing education opportunities. Take a look at the web site [www.ncsea.com](http://www.ncsea.com) for additional information regarding this year annual conference and other NCSEA-sponsored upcoming events, including webinars and seminars.

On the continuing education side, NCSEA offers to members only (members of NCSEA Member Organizations, Affiliate, Associate or Sustaining Members), unlimited access to all live webinars over the course of one year. Cost is \$750 per subscriber per year. This is an economical way to obtain continuing education if you are on your own or is a small firm. Please visit NCSEA website for detail information on this offer.

NCSEA welcomes volunteers that are willing to actively serve to promote the cause of structural engineering by participating on one of the committees. Opportunities for you as NCSEA member to serve on a committee are posted each fall. If you are interested in getting involved with an NCSEA committee, please check out the web site at [www.ncsea.com](http://www.ncsea.com) for more information.

Submitted by  
Chun Lau, SEAW Delegate to  
NCSEA



# News of Note

## SEAOC Annual Convention coming to Bellevue, September 9-12

This year, the annual Structural Engineers Association of California Convention will be held at the Hyatt in Bellevue, and we are excited to collaborate and share knowledge with our colleagues in the great Northwest. The convention starts on Wednesday, September 9<sup>th</sup> and runs through Saturday, September 12<sup>th</sup>. We are encouraging our younger members to attend by offering special events and sessions, a Young Member Mentor Roundtable and Design Competition, and a discounted registration. Here are some highlights:

**Wednesday:** *Introduction to Mass Timber and Wood High-Rise Buildings* Mini-Seminar, SEAOC Committees and Board Meeting, Welcome Reception in Exhibitor Hall: *Sideways in Seattle* with Local Craft Beer Tasting.

**Thursday:** Opening Plenary *The M9 Project | Cascadia Megathrust Earthquakes: Reducing Risk through Science, Engineering and Planning*, Four (4) Technical Tracks (AM and PM), Busi-



ness Lunch, *Cruise Around the World Dinner*.

**Friday:** Four (4) Technical Tracks (AM and PM), *Young Member Mentor Roundtable*, Excellence in Structural Engineering Lunch, Closing Plenary *One World Trade Center*, Evening at Chihuly Glass and Garden hosted by Computers and Structures.

**Saturday:** President's Cup, Convention Golf Tournament at China Creek, *Young Member Design Competition*.

Register today before **Discount Registration** period ends, on August 15<sup>th</sup>. <http://convention.seaoc.org> We hope to see you in Seattle!

Bob Glasgow, M.S., S.E. Chair  
2015 SEAOC Convention

## SEAW Online Member Profile Tips

### Renew Membership and Pay Dues:

- Log in to the SEAW website
- Click the "My Membership" link
- Click "Pay My Dues" On the payment page, you'll have a choice to pay online or receive an invoice by email. You can forward your invoice to your accounts payable person, who can then click on the "Pay Now" link and pay online without needing your log in information.

### Lost Password?

- Click on member login on home page
- Click "Forgot your password?" link in the login area and enter the email address that SEAW uses to contact you. Your login information will be emailed to you. If you no longer have access to that email address, contact the SEAW office at [seaw@seaw.org](mailto:seaw@seaw.org).

### Update Member Profile Information:

- Log in. The "Hello" page will show your name, chapter, membership classification and membership expiration date. (Life and Honorary members have no expiration date).
- Click on the "My Membership" link under the Hello banner
- Hover over the "My Profile" tab and select "Edit Profile" to view editable fields.
- Select and type over old information, or enter information in blank areas. Note that under "Other Information" near the bottom of the page, members can enter date of last ATC training, update education and degrees, and licensing information. In addition, Member PEs and SEs can opt to be listed on the Residential Engineers list.
- When finished, scroll to the bottom of the page and click "Save"

### Change Membership Classification:

- Membership Classifications are not editable by members. Email the SEAW office at [seaw@seaw.org](mailto:seaw@seaw.org) to request classification changes or transfers to another chapter.

## SEAW 2015 Membership Statistics

As of 7/10/15	Seattle	Southwest	Spokane	S. Central	Total State
Member SEs	333	57	40	7	437
Member PEs	145	25	37	25	232
Associates	121	7	18	0	146
Affiliates	27	4	5	3	39
Life Members	47	5	12	0	64
Honorary	8	1	0	0	9
Students	16	1	3	0	20
Complimentary	5	0	1	0	6
<b>TOTALS</b>	<b>702</b>	<b>100</b>	<b>116</b>	<b>35</b>	<b>953</b>
<b>2014 TOTALS</b>	<b>695</b>	<b>105</b>	<b>114</b>	<b>30</b>	<b>944</b>

# Opportunities

## Field Engineer, Seattle

Simpson Strong-Tie is looking for a motivated individual to join our team. We are currently hiring for a Field Engineer position based out of the Seattle, WA area. For more information please visit our webpage [www.strongtie.com](http://www.strongtie.com) and to apply today!

## Opportunities for Mid-level Design Engineer and Senior Project Manager:

Seattle Structural is a downtown Seattle firm looking for qualified professionals to join our talented group practicing across a number of different industries. Seattle Structural offers an excellent opportunity to work on a variety of public and private institutional, healthcare, educational, and commercial projects both domestically and internationally. We offer a competitive salary and a relaxed, collaborative

work environment. 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 is an Equal Opportunity Employer.

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

- Mid-level Designer: 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, 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:

Howard Burton, President  
Seattle Structural PS Inc.  
1420 Fifth Avenue, Suite 425  
Seattle, WA 98101

[HBurton@SeattleStructural.com](mailto:HBurton@SeattleStructural.com)

(Designers) to join our structural engineering team. Requirements for this position include the following:

- Bachelor's Degree in Civil or Structural Engineering.
- Licensing as an Engineer-In-Training.
- Knowledge of AutoCAD and Microsoft Office software.
- Master's Degree in Structural Engineering (preferred).
- Experience with structural analyses and design software such as Visual Analyses, ETABS, SAP, SAFE, Perform 3D, and Revit Building Information Modeling (BIM) software (preferred).

The successful candidate must possess excellent interpersonal and communication skills and the ability to participate within a team of engineers and drafters to engage in structural analysis and design of structural systems in concrete, wood, masonry, and steel.

The candidate must have the ability to work collaboratively in

(Continued on page 16)



## PURSUE A MASTER OF SCIENCE IN STRUCTURAL ENGINEERING

Curriculum informed by industry advisory board

[seattleu.edu/Structural-Engineering](http://seattleu.edu/Structural-Engineering)



# Opportunities, cont'd

a team environment and the ability to work independently as well. We are looking for problem solvers.

## **Project Structural Engineer:**

Qualified candidate must have a Bachelor's Degree in Civil or Structural Engineering or related field of study plus 4-12 years of experience in the duties of the job offered, or eight years of experience as a Structural Engineer, with experience in the following:

- Developing project proposals, budgets, estimates, and schedules
- Structural modeling, analysis and design of civil engineering and construction projects utilizing structural engineering principles, including static and dynamic behavior and stability of structures, and computer assisted modeling, analysis and design software
- Producing construction drawings, reports, and specifications
- Design of military, healthcare, education, commercial and civic facilities
- Completing seismic screenings, evaluations, rehabilitation, and upgrades using ASCE 31 and ASCE 41
- Construction administration during build phases  
Must be registered as a Professional Engineer in the State of Washington (Structural Engineer preferred)

The successful candidate possesses excellent interpersonal and communication skills, the ability to lead a team of engineers and drafters to engage in the structural modeling, analysis and design of structural, waterfront, and civil projects, the ability to work collaboratively in a team environment and the ability to work independently and use initiative to find solutions to problems. Required computer skills include knowledge of REVIT BIM, AutoCad, ETABS, Word, Excel and Power Point software. Other desirable skills include proficiency and practical experience with SAP and Visual Analysis applications and familiarity with permitting and grant assistance.

**About the Company:** Established in 1953, Reid Middleton is an employee-owned, nationally-recognized Civil and Structural Engineering, Planning, and Surveying firm. We are headquartered in south Everett with offices also in Anchorage, AK and Honolulu, HI and with significant work in San Diego, CA. Our north-end location offers an easier, more convenient and affordable lifestyle than found in other Puget Sound urban communities. Our firm's market-focused organization includes a diverse portfolio of Aviation, Civic/Municipal, Commercial, Education, Healthcare, Industrial, Military, Transportation and Waterfront projects. To learn more about us, visit our website at [www.reidmiddleton.com](http://www.reidmiddleton.com). We are also on Facebook and LinkedIn; links to these sites and our Reid Our Blog are on the home page of our website.

Reid Middleton is a federal contractor subject to the requirements of the Vietnam Era Veterans Readjustment Assistance Act (VEVRAA). EOE/Minorities/Females/Veterans/Disabled

## **Structural Engineers, Portland, OR**

KPFF Portland is looking for both experienced and entry-level structural engineers who are motivated and interested in an opportunity for growth.

KPFF is about freedom. Freedom to work on what inspires you. Our engineers work on a vast spectrum of projects that are located around the globe: from anchorage of mechanical systems to complex, non-linear analysis of high-rise structures, we do it all. We have all the benefits of a large, stable firm but none of the red tape that comes with it. Providing first-class service to our clients is what we're about. KPFF is experiencing solid growth and continues to innovate and adapt to better serve our clients. We are a group of dedicated, friendly, collaborative, hard-working engineers and we are looking for exceptional engineers to join us. Please use the

appropriate link below to view the job details and apply.

Our current projects include:

- Airports
- Arenas/Stadiums
- Long-Span Structures
- Bridges
- Government Facilities/Embassies
- Commercial Developments
- High-Rise Structures
- Mixed-Use Developments
- Corporate Campuses
- Healthcare/Medical Facilities
- Education Facilities (K-12 + Higher Ed)
- Museums/Convention Centers

## **Experienced Structural Engineer apply Here:**

[http://chc.tbe.taleo.net/chc05/ats/careers/requisition.jsp?org=KPFF\\_2&cws=63&rid=73](http://chc.tbe.taleo.net/chc05/ats/careers/requisition.jsp?org=KPFF_2&cws=63&rid=73)

## **Entry-Level Structural Engineer apply Here:**

[http://chc.tbe.taleo.net/chc05/ats/careers/requisition.jsp?org=KPFF\\_2&cws=63&rid=151](http://chc.tbe.taleo.net/chc05/ats/careers/requisition.jsp?org=KPFF_2&cws=63&rid=151)

Location: Portland, OR  
KPFF is an equal opportunity employer

## **BIM / CAD Modelers, Portland, OR**

KPFF Portland is looking for both experienced and entry-level BIM/CAD Modelers who are motivated and interested in an opportunity for growth.

KPFF is about freedom. Freedom to work on what inspires you. Our engineers and modelers work on a vast spectrum of projects that are located around the globe: from anchorage of mechanical systems to complex, non-linear analysis of high-rise structures, we do it all. We have all the benefits of a large, stable firm but none of the red tape that comes with it. Providing first-class service to our clients is what we're about. KPFF is experiencing solid growth and continues to innovate and adapt to better serve our clients. We are a group of dedicated, friendly, collaborative, hard-working engineers and we are looking for exceptional engineers to join us. Please use the

what we're about. KPFF is experiencing solid growth and continues to innovate and adapt to better serve our clients. We are a group of dedicated, friendly, collaborative, hard-working professionals and we are looking for exceptional modelers to join us. Please use the appropriate link below to view the job details and apply.

Our current projects include:

- Airports
- Arenas/Stadiums
- Long-Span Structures
- Bridges
- Government Facilities/Embassies
- Commercial Developments
- High-Rise Structures
- Mixed-Use Developments
- Corporate Campuses
- Healthcare/Medical Facilities
- Education Facilities (K-12 + Higher Ed)
- Museums/Convention Centers

## **Experienced Modeler apply here:**

[http://chc.tbe.taleo.net/chc05/ats/careers/requisition.jsp;jsessionid=C7E8EA90347EB424C07FBBB0763537A6?org=KPFF\\_2&cws=63&rid=96](http://chc.tbe.taleo.net/chc05/ats/careers/requisition.jsp;jsessionid=C7E8EA90347EB424C07FBBB0763537A6?org=KPFF_2&cws=63&rid=96)

## **Entry-Level Modeler apply here:**

[http://chc.tbe.taleo.net/chc05/ats/careers/requisition.jsp?org=KPFF\\_2&cws=63&rid=255](http://chc.tbe.taleo.net/chc05/ats/careers/requisition.jsp?org=KPFF_2&cws=63&rid=255)

Location: Portland, OR  
KPFF is an equal opportunity employer





## STRUCTURAL ENGINEERS ASSOCIATION

of WASHINGTON

PO Box 44 • Olympia WA 98507 • 206/682-6026 • [www.seaw.org](http://www.seaw.org)

## Membership Postings

In accordance with SEAW bylaws, membership applications are vetted by the Membership Committee, granted probationary status by the chapter board, and posted for membership comment. Membership is considered accepted 30 days after posting if current year dues are paid and no member objections have been received.

### Chris Aunan

Spokane Associate  
Coffman Engineers  
University of Portland  
BSCE, May 2015  
WA EIT

### Nathan A Bonck

Seattle Associate  
Seattle Structural  
U of Wyoming AE/Str , May  
2013  
WY EIT

### Koren Coppins

Seattle Associate  
Cary Kopczynski & Company  
University of Florida, BSCE  
2001, MSCE 2003  
FL PE

### Carl Harris

Seattle Associate  
DCI Engineers  
WSU, BSCE expected Fall  
2015  
WA EIT

### Charlie D Misner

Seattle Associate  
KPFF Consulting Engineers  
WSU, BSCE, December  
2012; MSCE, December  
2014  
WA EIT

### Timothy Patrick Olson

Spokane Member PE  
Coffman Engineers  
WSU, BSCE, 2009; MSCE,  
2010  
WA, MT PE

### Hillary Tervet

Seattle Student  
Seattle University, BSCE  
2015; MSCE expected 2016

### Kevin S Vaughn

Seattle Affiliate  
Sika Corporation  
University of Washington, BA  
Political Science, 1996

### Jonathon Waldrip

Seattle Student  
WSU, BSCE 2014;  
MSCE expected 2016

Densifying, Solidifying, Improving Soils

Mitigation of Soil Liquefaction

Tie-downs & Tiebacks/Anchors

Thwarting Soil Settlements

Stone Columns

Vibrated Concrete Columns

Rapid Impact Compaction

**206•621-0900**

E-mail: [pgc@pressuregrout.com](mailto:pgc@pressuregrout.com)  
[www.pressuregrout.com](http://www.pressuregrout.com)

## 2015 SEAOC Convention

### Annual Golf Tournament

China Creek @ Newcastle Golf Club

Saturday, September 12 • 7:30am – 2:30pm  
Cost: \$175/ \$150 for convention attendees



#### Sponsorship Opportunities Available:

- Hole Sponsor - \$250 (18 Available)
- Longest Drive - \$500 (1 Available)
- Closest to Pin - \$500 (1 Available)
- 1st Place Gross Score - \$250 (1 Available)
- 1st Place Net Score - \$250 (1 Available)
- Fully Sponsored Foursome - \$1,000 (4 Available)

For additional information contact  
Soon-Min Kwon - [skwon@miyamotointernational.com](mailto:skwon@miyamotointernational.com)

Join your friends and colleagues for  
a round of golf at the Golf Club at  
Newcastle-China Creek.

Transportation will be provided from  
the hotel early Saturday morning for a  
shotgun start at this well-known local  
Golf Club. Prizes to be awarded for  
1st place, longest drive and closest to  
the pin. Lunch is included in the golf  
registration price.



All proceeds raised by  
sponsorship opportunities  
above will benefit the Structural  
Engineers Association of  
Washington Scholarship Fund.