



CONNECTIONS

January 2020 Volume 20 Issue 3

Newsletter of the
Structural Engineers
Association of Oregon

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Upcoming SEA Meetings and Events:

Wednesday, January 29, 2020: SEA Chapter Dinner Meeting

Topic: Rainier Square — Steel Plate Reinforced Concrete

Speaker: Ron Klemencic, P.E., S.E., Chairman and C.E.O., Magnusson Klemencic Associates

Location: Portland City Grill, 111 SW Fifth Avenue, 30th Floor, Portland, OR

Time: 5:30 pm check-in and social; 6:15 pm dinner; 6:30 pm program

See page 3 for additional information.

Tuesdays and Thursdays, February 4 through March 24, 2020: SEAW NCEES Structural Exam Refresher Course Webinar

When: Every Tuesday and Thursday Evening

Time: 6:30 pm to 8:30 pm

See page 5 for additional information.

Tuesday, February 18, 2020: 56th Annual Engineers Week Luncheon Banquet

Location: Double Tree Hotel Lloyd Center, 1000 NE Multnomah Street, Portland, OR

Exhibit Hall and Mini-Workshops for Students, Teachers & Engineers: 9:30 am to 11:45 am

Banquet for Students, Teachers & Engineers: 11:45 am to 1:30 pm

Registration Fee: \$75 (fee includes lunch for the engineer and high school student).

See page 6 and pages 13 and 14 for additional information.

Wednesday, February 19, 2019: SEAOSF Trade Show

Location: Monarch Hotel & Conference Center, 12566 SE 93rd Avenue, Clackamas, OR

Mini-Seminar Times: TBD

Trade Show Hours: 5 pm to 8:00 pm

Dinner: After 6 pm (free for those who RSVP to [Jane@seao.org](mailto:jane@seao.org))

PDH Credits Available: TBD

(one PDH for each seminar attended plus one for attending the Trade Show)

Additional information will be forthcoming in February's newsletter.

SEAO has a twitter
account and can be
followed at
[@SEAOregon](https://twitter.com/SEAOregon).



CONNECTIONS is a monthly publication of the Structural Engineers Association of Oregon, published to disseminate current news to our membership and others involved in the profession of structural engineering. The opinions expressed reflect those of the author and, except where noted, do not represent a position of SEAO.

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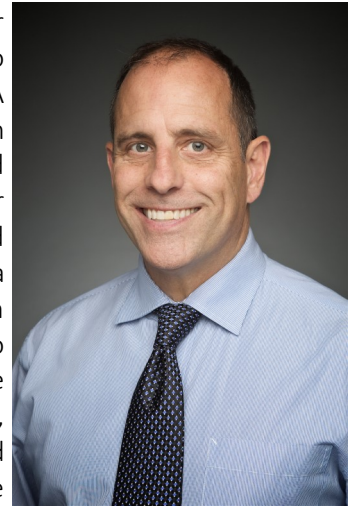
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PRESIDENT'S MESSAGE

BY: STEVE TRAUTWEIN, P.E., S.E.

Happy New Year, welcome to 2020! 2019 was a busy year for our industry, especially in the Northwest. I did get a chance to break away from the office in November to attend the NCSEA Summit in Anaheim with Amit Kumar (see Amit's full report in this newsletter), and there was a lot to learn. This is the second Summit I've attended, and I always really enjoy them. This year I brought the Fam and let the kids run around Disneyland during the day while I attended sessions. If you haven't had a chance to go to one, I highly recommend it. I always return energized and inspired with dozens of new ideas I want to implement...of course it usually wears off by 10 am the following Monday, after the whirlwind of my job kicks back in, but it's a nice break. One thing that did stick with me that I'd like to share with you is what our national leaders in the Structural Engineering community are doing to promote our profession. (Note: I will always capitalize Structural Engineer, to me it is a proper noun. I know this may violate certain rules of grammar, but that's me promoting our profession.)



Over the last year, NCSEA has embarked on a Strategic Planning effort with dual stated objectives of continuing to represent and strengthen Member Organizations (MOs, that's groups like us, SEAO), and to advance the Structural Engineering profession. They obtained input from more than 1,400 SEA members nationwide, and then conducted a retreat which included the NCSEA Board of Directors (one of whom is SEAO's Ed Quesenberry, serving as NCSEA Treasurer this year), Committee Chairs, Delegates, and vendors. The effort culminated in a new Strategic Plan, which was adopted by the NCSEA Board on November 11, 2019, just before the NCSEA Summit.

I know many of you have engaged in Strategic Planning, but I have not, so I'll share what I learned about the process. The first element of a Strategic Plan is the Vision, which is a statement of what we want the future to look like. Next is the Mission Statement, which articulates the organization's role in achieving that vision. Then come Goal Statements, which identify specific outcomes needed to achieve the mission and vision. Finally come Strategies, which are specific initiatives for action to achieve each goal.

The NCSEA Vision is "Structural Engineers are valued for their contributions to safe structures and resilient communities." My personal feeling is this vision focuses too much on our status in society as Structural Engineers, and not on the actual desired future state, which is that we want to have safe structures and resilient communities. I raised this with the Board of Directors at one of the Delegate Meetings, and there was some debate on the subject. But the Strategic Plan had already been adopted, and the overall Mission and Goals are in keeping with what I feel is important, so in spite of the opinion of an alternate-delegate from Oregon, the NCSEA Vision will stay as it is.

The NCSEA Mission is "NCSEA, in partnership with its Member Organizations, supports practicing Structural Engineers to be highly qualified professionals and successful leaders." This aligns nicely with the informal mission of SEAO (as stated on our website), "to encourage, develop, and maintain the integrity of our profession."

(Continued on Page 4)

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JANUARY DINNER MEETING ANNOUNCEMENT

WEDNESDAY, JANUARY 29, 2020

Topic: Rainier Square — Steel Plate Reinforced Concrete Tower

Topping out in August of last year, after just 10 months of construction, Rainier Square is Seattle's second tallest skyscraper. Magnusson Klemencic Associates is the Structural Engineer, and CEO Ron Klemencic will present on the revolutionary new composite system which is the core of the structure. The result of over fifteen years of research, the steel plate and concrete sandwich panel system has cut months off the construction schedule compared to traditional concrete construction. Dubbed "SpeedCore" by AISC, the system enabled the contractor to reach a construction rate of four floors per week towards the end of the 58-story project. Come learn about this cutting edge structural system, it has the potential to be a game changer in the high-rise industry.



Photos Courtesy of Wright Runstad & Co (left) and Magnusson Klemencic (right)

Speaker: Ron Klemencic, Magnusson Klemencic Associates



Ron Klemencic is Chairman and C.E.O. of Magnusson Klemencic Associates, an award-winning, 200-person structural and civil engineering firm headquartered in Seattle, Washington. He earned his B.S. in Civil Engineering from Purdue University in 1985 and his M.S. in Structural Engineering from the University of California Berkeley in 1986. Ron is a three-time Engineering News-Record Top-25 Newsmaker (2017, 2008, 2005), and the 2018 Award of Excellence recipient for championing public domain research. His leadership in the collaborative design of tall buildings was recognized with the rare election of an engineer to Honorary Membership by the American Institute of Architects. Most recently, Ron was honored with ASCE's OPAL Award for his inspired and diligent work to advance the AEC industry.

Location: Portland City Grill, 111 SW Fifth Avenue, 30th Floor, Portland, OR

Parking information: 2.5 hours of validated parking is included for attendees in either of the two Unico garages—the garage below the tower or in the parking structure between 5th and 4th Avenues.

Time: 5:30 pm — Check-in and Social
6:15 pm — Dinner
6:30 pm — Program

Cost: \$39 — Prepaid Members
\$49 — Prepaid Non-Members
\$25 — Prepaid YMF Members
Free — Students

Reservations: Pre-registration is required for all. You can register and pay online at www.seao.org before noon, Friday, January 24, 2020. You can also register with Jane Ellsworth via phone at (503)753-3075 or via Email: jane@seao.org. Note: No-shows will be billed.

PDH Credit: One PDH has been recommended for this program.

PRESIDENT'S MESSAGE (CONT. FROM PAGE 2)

BY: STEVE TRAUTWEIN, P.E., S.E.

The NCSEA Strategic Plan outlines four Goal Statements under three categories: Education and Training, Perception and Professionalism, and Codes and Standards. Again, the statements are structured to identify specific outcomes we want to see that will support the mission and vision. The Goal Statements are as follows:

- Education and Training - Practicing Structural Engineers operate effectively in complex and dynamic technical, economic, and social environments.
- Perception and Professionalism, Advocacy (External Communication) – Practicing Structural Engineers are recognized by clients, media, policymakers, educators, students, and the public for the value of their contributions to society.
- Perception and Professionalism, Collaboration (Internal Communication) – Practicing Structural Engineers create and sustain a positive, mutually supportive environment for everyone in the profession.
- Codes and Standards – Practicing Structural Engineers exert a positive influence on the development and application of relevant codes and standards.

Finally, the Strategic Planning session identified specific initiatives designed to achieve our Goal Statements. These are numerous and I won't list them all here. For the most part, these initiatives are already supported by the existing NCSEA Committees. Many of the initiatives are specifically aimed to help us, Member Organizations such as SEAO, do the work that we want to do at the local level. Things like providing continuing education opportunities for our individual members, representing the profession at the State and local levels, and educate the community about the Structural Engineering profession. These are all goals outlined in our SEAO Bylaws and on the website.

If you would like to see the full Strategic Plan, you can find it on the NCSEA website, at [http://www.ncsea.com/downloads/files/about/2019 NCSEA Strategic Plan.Final Nov 2019.pdf](http://www.ncsea.com/downloads/files/about/2019%20NCSEA%20Strategic%20Plan.Final%20Nov%202019.pdf).

Operating somewhat in parallel with the NCSEA vision, I also learned at the Summit that NCSEA, CASE (Council of

American Structural Engineers) and SEI (Structural Engineering Institute) have collaborated on a Joint Vision for the Future of Structural Engineering. *"CASE, NCSEA, and SEI are united in envisioning a future where, as stewards of the built environment, structural engineers are widely recognized as making key contributions to the advancement of society on a national and global scale."* This is essentially the same as the NCSEA Vision stated in the Strategic Plan, but it's nice to see the collaboration between the three main Structural Engineering associations in the US. You can read the entire Joint Vision and associated goals and initiatives at https://www.asce.org/uploadedFiles/Technical_Areas/Structural_Engineering/Content_Pieces/vision-for-the-future-of-structural-engineering-signed.pdf.

While I am sometimes prone to skepticism about things like rebranding and reorganizations and strategic plans, I did come away from the Summit feeling NCSEA got it right with the strategic plan they have formulated. NCSEA is a strong advocate for us as Member Organizations, and there is a lot they can do to help us achieve our own goals here in Oregon. Amit talks about some of these things in his article, and I will talk more about this in a future President's Message.

I hope you found this informative and that it piques your interest in what's going on at the national level as well as what we are doing here at home. Just as NCSEA is focused on serving the needs of its Member Organizations, SEAO is focused on serving the needs of our members. Having said that, our organization runs on the fuel of active member participation, so if any of this inspires you to participate more, there is always a place for volunteers on a committee, helping with an activity, or on the Board of Directors (elections will be here before you know it!).

Enjoy the new year, and I hope to see you at our January Dinner Meeting on the 29th, with Ron Klemencic talking about Rainier Square, the new second tallest building in Seattle which uses the new SpeedCore composite steel/concrete structural system.

SEAW REFRESHER WEBINARS FOR THE SE EXAM

FEBRUARY 4–MARCH 24, 2020

STUDY FOR THE SE EXAM ON YOUR OWN



STUDY WITH THE SEAW REFRESHER



Dates: Tuesday and Thursday Evenings, February 4—March 24, 2020

Time: 6:30 pm—8:30 pm

Location: Webinar Access

Registration Fees:

Full Course: Members: \$350/Non-Members: \$425

Notes Only: Members: \$150/Non-Members: \$200

The SEAW Seattle Chapter will hold its annual Refresher Course on Tuesday and Thursday evenings from February 4th through March 24th.

The course instruction and PDF notes are designed to assist engineers preparing for the NCEES Structural Exam and for practicing engineers who want to review principles of structural engineering. Fifteen 2-hour lectures will present information regarding Structural Analysis, Wind Design, Foundations & Earth Retaining Structures, Seismic Design I and II, Structural Steel Design I and II, Concrete Design I & II, Pre-stressed/Post-tensioned Concrete Design, Bridge Design I and II, Wood Design, Masonry Design, and Cold-Formed Steel Design.

Course presentations are exclusively offered online through GoToMeeting.

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

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

Course Schedule

Tuesday February 4	Introduction & Analysis Bruce Erickson, P.E., S.E. KPFF Consulting Engineers
Thursday February 6	Wind Design Don Scott, S.E., F.SEI PCS Structural Solutions
Tuesday February 11	Structural Steel Design I Mathew Wies, P.E., S.E. DCI Engineers
Thursday February 13	Structural Steel Design II Mathew Wies, P.E., S.E. DCI Engineers
Tuesday February 18	Seismic Design I Mike Visser, P.E., S.E. Visser Engineering
Thursday February 20	Seismic Design II Mike Visser, P.E., S.E. Visser Engineering
Tuesday February 25	Concrete Design I Mark Whiteley, P.E., S.E. CKC Structural Engineers
Thursday February 27	Concrete Design II Mark Whiteley, P.E., S.E. CKC Structural Engineers
Tuesday March 3	Bridge Design I Greg Hess, P.E., S.E. KPFF Consulting Engineers
Thursday March 5	Bridge Design II Greg Hess, P.E., S.E. KPFF Consulting Engineers
Tuesday March 10	Prestressed Concrete Design Ron Mirahsani, P.E., S.E. CKC Structural Engineers
Thursday March 12	Wood Design Dick Hemmen, P.E., S.E. DCI Engineers
Tuesday March 17	Masonry Design John Hochwalt, P.E., S.E. KPFF Consulting Engineers
Thursday March 19	Foundations & Earth Retaining Structures Andrew McGlenn P.E., S.E. Jacobs Associates
Tuesday March 24	Cold-Formed Steel Design Chris LeVan, PE SE KPFF Consulting Engineers Inc.

MEMBER SPOTLIGHT

WADE YOUNIE, PE, SE

PRINCIPAL STRUCTURAL ENGINEER, DCI ENGINEERS



Wade has been a consulting engineer for four decades. He earned his Bachelor of Science in Civil Engineering at Portland State University. He started his career with Talbott Engineers, where he learned the art and science of forensic engineering. Looking for more structural design work, he moved on to local design firms, where he gained extensive experience in retail, commercial, residential, and industrial projects. He continued to develop niches in special projects such as structural investigation, demolition, and renovation of existing and historic buildings. He joined DCI Engineers' Portland office in 2004. He quickly became the firm's go-to expert and spokesman for seismic evaluation and upgrades, particularly for regional unreinforced masonry (URM) buildings and historic preservation projects. Wade was promoted to managing principal at the firm in 2008. His completed projects range from wineries, community centers, college recreation centers, shopping centers, townhouses, and much more.

Last December, Wade was honored by *DICOregon* as a 2019 Icon of the Year, an award recognizing professionals who shape the building industries in Portland and surrounding regions. He was nominated for his extensive structural engineering career and overall leadership and mentorship. *DICOregon* also named his Portland team as "Engineer of the Year" in 2018 for their contributions to the city's built environments and urban developments.

Wade has been an SEAO member since 1981. He served as SEAO president from 1996-1997. He currently serves on the organization's Seismic Committee and is chairman of the Vintage Building Committee. SEAO recognized Wade's DCI project achievements by awarding his renovation design with the Lloyd Center remodel and new building design with Ponzi Vineyards.

Outside the office, Wade enjoys cycling and rides with Portland Velo, Portland Lawyer Ride, and the Multnomah Athletic Club Cycling Group. Last summer, Wade married his dear friend, Barb Gribskov, at Camp Sherman.

ENGINEERS WEEK

BY: MICHELLE JUAREZ

One of SEAO's missions is to encourage, develop, and maintain the integrity of our profession. One way we do this is by participating in local events that educate and promote the profession to our local high school students. SEAO will be hosting a booth at the exhibit hall of the 56th Annual Portland Engineers Week event. The exhibit hall will have Oregon and Washington state universities offering engineering majors and engineering professional organizations in all disciplines. Over 300 students will walk through the exhibit hall. If you are interested in helping with the booth, please email Michelle Juarez at michelle@miller-se.com for more information.

The event organizers are shifting to a lunch banquet this year to increase student participation and improve networking opportunities between the students and engineers. We invite you and your organization to participate and sign up to speak one-on-one with students. We encourage you to take a break from the office grind and share your journey to becoming a structural engineer. You will be surprised to know many students don't know the difference between what we do and what an architect does.

Please head to the link below to register or see forms on pages 13 and 14 to submit your information via mail.

<http://www.oregonengineersweek.org/sponsorship/sponsor>



NEW MEMBERS

Welcome to our new Members!

Giulio Leon Flores – Nuscale Power

Travis Redinger – Jackola Engineering & Architecture

WELCOME TO SEAO!

ASK A QUESTION, GET AN ANSWER

Do you have a code question you would like to ask the Wind Committee or Snow Committee? SEAO is pleased to announce a simple way for Q&A's with technical committees. Email questions to jane@seao.org, and SEAO will direct your question to the appropriate committee chair for a response. Questions and their answers will be made anonymous and available to the membership on the website www.seao.org.

Committees include: Seismic, Wind, Snow, Code, Vintage Building, and Special Inspections.

2020 SEAO AWARDS

SAVE THE DATE

This year's Excellence in Structural Engineering Awards will take place at the September dinner meeting. Projects will be judged on innovative design, engineering achievement, and creativity. Awards will be presented in the following categories:

- New Buildings Under \$20 Million
- New Buildings Over \$20 Million
- Renovation/Retrofit
- Special Use Structures

We have raised the threshold for the construction cost of projects to better reflect the current market for construction and the intent the awards for project size.

Applications will be available in February. Start thinking about what projects you may want to submit. It is not required that the project be in Oregon—only that it is submitted by an SEAO member.

Want to get involved? The Awards Committee is looking for new members. Email Brynn Adkins at badkins@tmrippey.com.

WEBSITE UPDATE

The SEAO Board has been working with the web designer on the new SEAO website. The primary objective is to make the website more user-friendly and up-to-date.

One new feature will be each member's ability to track their PDHs and upload PDH certificates to their personal profiles (even for non-SEAO PDHs).

If you have any ideas or comments on the existing website that you would like to see improved, please contact Seth Thomas (seth.thomas@kpff.com).

VENDOR ADVERTISING

SEAO is accepting vendor advertising!

Cost of a full page ad running for one month:

\$250 - Members

\$350 - Non Members

For more information, contact Jane Ellsworth at jane@seao.org.

2019 STRUCTURAL ENGINEERING SUMMIT

BY: AMIT KUMAR, SEAO DELEGATE

& STEVE TRAUTWEIN, SEAO ALTERNATE DELEGATE

The National Council of Structural Engineers Associations (NCSEA), partnering with local host the Structural Engineers Association of California (SEAOC), held the annual Structural Engineering Summit at the Disneyland Hotel in Anaheim California from November 12th-15th, 2019.

This year's event boasted a record attendance in excess of 800 attendees with 100+ Young Members in attendance. The summit offered several educational and networking opportunities including over 45 education sessions, five keynote addresses, and a trade show with over 70 exhibitors. For the Young Members Group (YMG), there were sessions hosted by and targeted specifically towards the Young Members including Mentor roundtable, YMG Sessions & Tutorial sessions. In addition, each day of the summit began with a Member Organization's Delegate meetings with the NCSEA leadership. This provided plenty of opportunities to inform, discuss and provide feedback on how various local organizations can harness the expertise and experiences of other member organizations, and how NCSEA as the umbrella organization can lead the profession at a national level.

The Oregon Delegation representing SEAO consisted of Amit Kumar (SEAO Delegate) and Steve Trautwein (SEAO President and alternate Delegate). Ed Quesenberry, past President of SEAO, serves as the Treasurer on the Board of Directors of NCSEA. It was also nice to see a few other familiar faces from among the practicing engineers from Oregon and Washington.

Preceding the start of the summit, NCSEA held their committee meetings. NCSEA has several committees including the Code Advisory committee which includes several sub-committees such as Seismic, Wind, General Requirements, Special Inspections and Existing Buildings; the Resilience committee; the Communications committee; the Structural Licensure committee; the Continuing Education committee; the Structural Engineer Emergency Response (SEER) committee; the Publications committee; the Structural Engineering Engagement and Equity (SE3) committee; and the Young Member Group Support committee.

Following the committee meetings each committee presented a report on their activities from the past year and plans for the coming year. I was fortunate enough to attend the Seismic sub-committee meeting and part of the General Requirements sub-committee meeting. The Code Advisory

committee in general has been very active in the past year reviewing and proposing code changes for the 2021 IBC. Code hearings for the next IBC concluded in Las Vegas in October of 2019. NCSEA through these various committees and sub-committees tracked a large number of proposals for changes to the IBC and advocated on behalf of the Structural Engineering profession at the national level on the structural provisions of the code. The mission of the Code advisory committee is to monitor and participate in the codes/standards development process to assure appropriate requirements for safe, economical buildings, submit proposals for change and advocate for these positions, provide public testimony on proposals by others and partner with ICC-ES and other Evaluation Services to assure appropriate product qualifications.

Each committee or sub-committee of the NCSEA is comprised of Voting members (2 from each of the four geographic region of the country and 2 At large members), Member Organization liaisons and Corresponding members. YOU can be an active member on these committees and influence code changes. In general, local Structural Engineer Associations (SEA) can appoint one Member Organization (M.O.) Liaison to each of the NCSEA committees and subcommittees. SEAO's committees are structured to very closely mirror the committee structure at the NCSEA level. Generally, chairs of the local SEA's are appointed as your SEAO liaison to NCSEA committees, however that may not necessarily be the case. If you are interested in serving on the national committees, please contact the chairs of the various SEAO committees or the SEAO board. In addition, even if you are not able to participate as a committee voting member or a MO liaison, you can still get on the committee of your choice as a corresponding member. You just need the endorsement of the SEAO Board. So please put your experience to good use and become active. Find a committee that best suits your interest and passion and get on the committee. This was a clear and constant message we heard from all the NCSEA committee chairs and the Board of Directors. They are looking and want to hear from YOU! You can get more information about the various committees at the following link: <http://www.ncsea.com/committees/>.

YOU CAN influence what goes into building codes. SEAs can propose Code Change Proposals (CCPs) to NCSEA, and NCSEA can submit these CCPs to ICC and advocate for those CCPs at the ICC hearings.

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2019 STRUCTURAL ENGINEERING SUMMIT (CONT. FROM PAGE 8)

BY: AMIT KUMAR, SEAO DELEGATE
& STEVE TRAUTWEIN, SEAO ALTERNATE DELEGATE

A couple of quick trivia items about the work the NCSEA committee's did last year. Did you know that:

- For 2019, the NCSEA Continuing Education committee developed a total of 31 webinars and two all-day webinars in conjunction with CalOES for their Safety Assessment program.
- The Publications committee published "Engineering Structural Glass Design Guide" with a webinar offered on November, 2018. The committee will also be publishing a new guide "Excavation Shoring Design Guide."

This year at the summit, NCSEA held the first ever national Timber-Strong Design Build Competition, which challenged student teams from across the country to build a two-story playhouse in 90 minutes. California Polytechnic State University, San Luis Obispo took first place.

Another first at the summit, was the SE3 National Symposium: Engagement and Equity in the Structural Engineering Profession, hosted by NCSEA SE3 Committee. Topics focused on various aspects of engagement, retention, diversity, and inclusion within the structural engineering profession.

Earlier in the year the NCSEA's Communication committee announced the first MO Public Outreach challenge to involve the NCSEA Member Organizations in outreach via news articles, blog posts, videos, and a variety of other media channels. The goal of this challenge was to educate the public and other industries about structural engineering. Winners of the first Outreach challenge were announced. Thanks to the effort of Dusty Andrews and Mike Bailey who submitted the SEAO entry for this challenge. NCSEA recognized the work of SEAO member Brandon Erickson as the highlighted submission from Oregon. Brandon published an article entitled "Learning From Others Who Also Live in Earthquake Country" in the Vancouver Business Journal. This article took advantage of the 2018 Anchorage Alaska earthquake to capture the general public's attention and address key concerns of nearby residents, while highlighting the impact of structural engineering in a way the public can understand. Brandon's article can be found at the following link : <https://www.vbjusa.com/opinion/columns/design-construction-column/learning-from-others-who-also-live-in-earthquake-country/>. Based on the contributions of Brandon and others, SEAO was awarded third place in the challenge. The award included a mini Shake Table. This Shake Table will come in very handy in SEAO's student public outreach

activities. **Thank you Brandon for your article**, and thanks to NCSEA for the award.

On the topic of public outreach one of the more inspirational key note addresses at the summit was one by Avery Bang, Ph.D., President and CEO of Bridges to Prosperity (B2P). Bridges to Prosperity is a nonprofit organization that designs and builds footbridges over impassable rivers in isolated communities around the world to provide more reliable access to essential health care, education and economic opportunities. Bridges to Prosperity has positively impacted the lives of over one million people in 22 countries by providing safe access to the world's rural "last mile."

Another key note address was "A Perspective on the Future of Consulting Engineers" by Stacy J. Bartoletti, S.E., Chairman and Chief Executive Officer of Degenkolb Engineers, and a former member of SEAO. The talk looked into what the consulting engineering and structural engineering profession may look like in 10 years. What impact will changes in licensure, technology, contracts and employment trends have on the business of engineering? No one has a crystal ball with all of the answers, but if we want to thrive in the future, we need to be investing time and energy into considering the answers and directing our own future. Stacy highlighted the work of various organizations such as NCSEA, CASE, ACEC, and the Engineering Change Lab, which are dedicated to coordinating their efforts on this topic on behalf of the profession.

In her key note address Lucy Jones, Ph.D., the founder of the Dr. Lucy Jones Center for Science and Society, talked about "Moving Beyond Life Safety for Community Recovery." The current building code is based on the premise that the role of government and codes is to protect the lives of its citizens, but economic decisions for performance above life safety falls to the building owners and developers. This approach ignores the nature of economic relationships and the shared need for infrastructure and building stock to maintain a viable regional economy. The talk explored the economic risk, how progress is and is not being made in California, and the social tools necessary to protect the economy in the inevitable future earthquakes.

Ashraf Habibullah, S.E., President of the software company Computers and Structures, Inc., with his usual enthusiasm and humor discussed "Structural Engineering: Indispensable to Civilization - So Why Don't We Have More Influence? Why Don't We Make More Money?" Ashraf talked about why it is important to cultivate deep personal beliefs, public speaking

(Continued on Page 10)

2019 STRUCTURAL ENGINEERING SUMMIT (CONT. FROM PAGE 9) BY: AMIT KUMAR, SEAO DELEGATE & STEVE TRAUTWEIN, SEAO ALTERNATE DELEGATE

skills, and to become familiar with the arts, human psychology, and human chemistry as part of his keynote address.

The educational sessions covered a wide swath of topics such as ASCE 7-Wind Design, Existing Buildings and the 10% Rule: are we in agreement; A series of Unfortunate Events - Unexpected Contribution to Structural Failures; Resilience and What it Means to Structural Engineers; Does Accidental Torsion Prevent Collapse; A New Path Forward for Tall Wood Construction; Wilshire Grand Building-Downtown Los Angeles; Structural Engineering - Claim Sharing; PE/SE Exam Panel Discussion for Young Members; Young member Mentor Roundtable; to name just a few.

On the fun side, the summit included a must attend “A Celebration of Structural Engineering” party hosted by Computers and Structures Inc. This party, the most sought-after party at the summit each year, featured dinner and live entertainment and a whole lot of fun.

The celebration culminated with an awards celebration honoring NCSEA members who have provided outstanding service and commitment to the association and the Structural Engineering profession as well as the Excellence in Structural Engineering Awards, showcasing some of the best examples of Structural Engineering ingenuity throughout the world.

NCSEA also awards Grants to assist Member Organizations in growing their Association and promoting the structural engineering field. Last year 10 MO’s were awarded grants of varying amounts, including the Structural Engineers Association of Washington (SEAW) which was awarded \$1,300 to assist with a joint Oregon and Washington Special Regions Wind Study. SEAO received a similar grant the year before, and we are continuing efforts to find funding to enable this study.

This year’s summit set records for attendance and is the must-go-to conference ‘Designed by Structural Engineers for Practicing Structural Engineers’. If there is one conference you should attend in the year this is it. If your plans allow, consider attending this year’s Structural Engineering Summit which will be held November 3–6 at the MGM Grand in Las Vegas, NV.

DRAFTING SERVICE AD

DRAFTING SERVICES AVAILABLE

Deadlines Drafting LLC is a structural modeling and drafting firm with over 15 years’ experience in Revit and ACAD. Deadlines Drafting offers the following:

- Experience ranging from tenant improvements to multistory developments
- Experience working with large and small engineering firms in Oregon and Washington
- Understanding of construction practices and materials
- Competitive fees
- Located in Portland and available to work remotely or co-locate in your office
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For more information, please contact us at contact@deadlinesdrafting.com or at 503-713-7120

PHOTOS FROM 2019 NCSEA SUMMIT



EMPLOYMENT OPPORTUNITIES

VLMK ENGINEERING + DESIGN

Structural Engineers
Portland, OR

VLMK Engineering + Design has openings for both an experienced and entry level Structural Engineer ranging from 0 to 12 years of experience who are passionate about engineering and want to broaden their experience working in a collaborative, multifaceted environment with a variety of project and building types.

If you think this might be for you, please see the full posting on our website at www.vlmk.com for additional requirements and the benefits of joining VLMK.

If you have questions, please contact Trent Nagele at trent@vlmk.com.

PETERSON STRUCTURAL ENGINEERS (PSE)

Structural Engineer/Project Manager
Portland, OR

Peterson Structural Engineers (PSE) is hiring for our Portland office location. We are seeking a Structural Engineer/Project Manager with 5+ years of engineering experience. Duties include structural engineering design and consulting and related report writing, drafting design, forensic studies, seismic evaluations, condition assessments and other structural engineering related duties. Also included will be elements of Project Management which will include oversight of projects & clients as well as assigning and overseeing work to Staff level designers.

Minimum requirements:

- 5+ years of engineering experience
- PE licensure in the State of Oregon. Having an SE is desired but not required
- BS or MS in Structural or Civil engineering from an ABET accredited university
- Effective communication and interpersonal skills
- Strong technical skills, organizational abilities and work ethic
- Proficient in Microsoft Excel/Office Suite, AutoCAD experience a plus

Interested candidates please submit cover letter and resume to pdx@psengineers.com.

MD STRUCTURAL ENGINEERING, INC.

Structural Engineer
Vancouver, WA

MD Structural Engineering, Inc. is an expanding structural engineering firm, located in downtown Vancouver, WA. Our office provides designs for a wide range of projects including multi-family, large single family residential, office/retail, curtain wall system and earth retaining structures. MDS prides itself on customer service and providing cost effective and elegant solutions for all projects. We are currently seeking an enthusiastic professional engineer who is passionate about structural engineering and continued growth in the field. The ideal candidate would be someone who possesses:

- PE licensure in OR. or WA with aspirations of attaining SE licensure
- Practical experience designing projects using wood, steel and concrete and other construction materials in combination with current building codes
- A thorough understanding and practical design experience with both gravity and lateral loads systems in all structures
- Effective communication and customer service skills
- Experience with AutoCAD and other industry design software.
- Experience designing aluminum storefront & curtain wall systems

EMPLOYMENT OPPORTUNITIES (CONT.)

DCI ENGINEERS

Structural Project Engineer

Several Locations

DCI Engineers is a leading structural and civil engineering firm headquartered in Seattle, WA, with branch offices in 12 additional locations along the West Coast, Texas, Alaska Colorado, and Montana. We hire enthusiastic, intelligent, fun relationship builders who know how to step outside the box when necessary to creatively solve the needs of our clients. Our various locales provide unique and challenging opportunities for employees to gain experience and develop expertise in a collaborative and rewarding environment. DCI is proud to offer its employees a competitive salary and benefits package.

Requirements for a Structural Project Engineer:

- 2-5 years of experience.
- Working knowledge and project experience using steel, concrete, wood, and masonry design.
- Experience with design of all categories of seismic and gravity framing systems for every building and material type.
- Effective communication skills.
- Ability to provide excellent service and build client relationships.
- Civil Engineering degree from an ABET accredited university preferred.

If interested, please go here to apply:

www.dci-engineers.com/careers

SSOE

Structural Engineer

Explore the benefits that go hand-in-hand with a Structural Engineer position at SSOE Group. Collaboration, accountability, and top-notch training are building blocks we use to set you up for success.

The Structural Engineer will be responsible for producing high-quality deliverables for varied projects for advanced technology clients.

Position requirements:

- Bachelor Degree or Masters Degree in Structural Engineering from an ABET accredited college.
- PE required. SE a plus.
- Solid understanding of structural engineering fundamentals required.
- Knowledge of building codes including seismic requirements.
- Experience with structural analysis software such as RISA or STAAD.
- Experience with REVIT preferred.
- Valid driver's license required.

Check us out at <https://www.ssoe.com/> and send your resume to jlombardo@ssoe.com.



*Celebrating over 50
years of growing
new engineers in
Oregon &
Washington*

56th Annual E-Week High School Program

You are an essential part of the 56th Annual Engineers Week High School Program.

Date: Tuesday, February 18, 2020

Location: Lloyd Center DoubleTree by Hilton Hotel - 1000 NE Multnomah St.

To participate at E-week, do one of the following:

- 1) Go to <http://www.oregonengineersweek.org/sponsorship/> for online registration.
- 2) Send in the following form and a sponsor check (see details on next page).

We will contact you with additional day of the event information.

Engineers Week Sponsorship Levels

		Sponsor Included on E-week Web and Facebook Pages	Title Sponsor on all Event Publications*	Official Sponsor of Morning Program	Number of Sponsored Students	# Banquet Dinner Tickets for Your Organization
Platinum	\$2,000	✓	✓	✓	20	15
Gold	\$1,000	✓	✓	.	10	10
Silver	\$500	✓	.	.	5	5
Individual	\$75	.	.	.	1	1

**Title sponsors will be included on all event publications if program support is committed by December 31, 2019.*

E-week Sponsor Registration

Organization Name: _____

Is this a public agency or non-profit? If so, do you want to participate in the Exhibit Hall?

☐ *Yes please – contact me with more information*

Contact Name: _____

Email Address: _____

Phone Number: _____

Sponsor level - check one:

☐ **Platinum \$2,000**

☐ **Gold \$1,000**

☐ **Silver \$500**

☐ **Individual \$75 x ____ # of attendees**

☐ **I cannot attend, but I would like to sponsor a student - \$40**

Send this form and a sponsor check payable to “ASCE Oregon Engineers Week” by Thursday, January 31, 2020 to:

Tova Peltz
c/o Oregon Department of Transportation
123 NW Flanders Street
Portland OR 97209.

We will confirm receipt of your registration and send more day of event details.

Please email tova.r.peltz@odot.state.or.us with any questions.

The Engineers Week High School Program is a tax-deductible program affiliated with the American Society of Civil Engineers, a 501c3 non-profit organization.