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## February 2020

### February ASCE Seattle Section & Geotechnical Group Joint Dinner Meeting

### The Application of Drilled Displacement Elements for Liquefaction Mitigation and Foundation Improvement

**Thursday, February 27, 2020**

**Speaker: Willie M. NeSmith, PE**

When drilled displacement piles are installed in materials that exhibit granular behavior, there is a significant increase in density in the vicinity of the piles. The increase is most pronounced in loose to medium dense materials and can be utilized to mitigate liquefaction and increase the foundation response stiffness of the mass of the material penetrated. Case histories are presented wherein ground improvement elements were installed using drilled displacement pile processes to mitigate liquefaction and increase allowable foundation loading.

**Executive Inn**  
**200 Taylor Ave N**  
**Seattle, WA 98109**

5:30pm Social Hour  
6:15pm Dinner  
7:15pm Program

See Registration Page for Ticket  
Registration Pricing

**Early Registration Ends**  
**Friday, February 21, 2020**

**Click Here to  
Register**



### February President's Column

By Henry Haselton, PE, PMP, Seattle Section President

#### *Urgent volunteer opportunities*

As we make our way out of the darkness that is a Seattle winter,



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allow me to point you toward a couple opportunities that may brighten the remaining days of winter even further.

- On April 17th and 18th of 2020, the UW ASCE student chapter will be hosting the **ASCE Pacific Northwest Regional Student Conference**, which includes student competitions in water treatment, surveying, sustainable solutions, and concrete canoe. The student committee has been busily fund raising, but are still over \$15,000 short and your support – or the support of your company – is desperately needed. The conference will be attended by over 400 students from 15 schools around the PNW. Corporate donations could land you great visibility with these emerging engineers and the future of our profession. **Please talk to your company's leadership to make a case for supporting these students.** If you or your company have any questions or would like to offer your support, please contact the student organizing committee by emailing [asce@uw.edu](mailto:asce@uw.edu). You can find out more about the conference here: [www.asce.org/student\\_conferences/](http://www.asce.org/student_conferences/). Individuals have the opportunity to provide a tax-deductible donation through a "crowd funding" site located here - <https://crowdfundtogether.uw.edu/project/18027/donate>. Please be generous in helping these students raise funds for a valuable event that promotes the future leaders of civil engineers!
- The ASCE Seattle Section YMF is embarking on their second annual **mentoring program**, and they have a need for experienced professionals over the age of 35 to **volunteer as mentors**. More information about the program is here <https://www.seattleasceymf.org/mentor-program>. The program lasts about 6 months and involves monthly check-ins. I participated last year and found it to be a great opportunity to share my experience and advice with a young engineer, while learning a great deal about how young engineers view professional life, careers and civil engineering through candid conversations with my mentee.

Having just spent two days at the Multi-Regional Leadership Conference in San Francisco with the leaders of YMF and student chapters from throughout the western US, I am inspired by the diversity, energy, creativity and enthusiasm that these young engineers bring. Our Section's YMF and students are exemplary representatives of the future of our profession. Please consider making a generous donation of your time and/or funds to help pave the way for these young engineers and students.

**DID YOU  
KNOW?**

All ASCE Seattle Members are always invited to join the Seattle Section Board Members at the monthly Board Meeting. Interested in attending? Check the [calendar on the ASCE Seattle website](#) for the meeting time and location and email [president@seattleasce.org](mailto:president@seattleasce.org) if you plan on joining us!

**2020 LOCEA Awards Applications Due Feb. 24**



The LOCEA Awards recognize projects that have improved the quality of life and contributed to the economic development of the local community, area, or region. These projects represent the successful combination of multiple engineering objectives, including design innovation and excellence, environmental sustainability, cost effectiveness, the effective use of materials, and aesthetics. Each year, the Seattle Section recognizes the award winners at a formal presentation.

Projects eligible for consideration must have been accomplished by a civil engineer who is a member of the Seattle Section; must be located within the Seattle Section area; must have been substantially completed in the calendar year 2019; and the project must be predominantly civil engineering related work. See the 2020 Rules below for full eligibility requirements and more! [Click here to view winning projects from past years.](#)

## LOCEA Applications Due: February 24, 2020

LOCEA Awards at Section meeting on March 18, 2020

Winners can be automatically entered into the Region 8 awards by April 30.

[Download the Region 8 project nomination form here.](#)

LOCEA Awards 2020 application forms can be accessed through the links below:

- [2020 Entry Form](#)
- [2020 Rules](#)

We look forward to seeing your innovative projects!

## Fund the 2020 Pacific Northwest ASCE Student Conference - Donations Needed!

**UW ASCE still needs over \$20,000 to finance the 2020 Pacific Northwest Regional Competition!** We are seeking both company and individual donors.

Your contribution will help close our fundraising gap to put on an incredible conference for over 300 students. Whether you would like to contribute \$20, or your company would like to contribute \$1000, no donation is too small!

Our [crowdfunding page](#) outlines all of our donation tiers and benefits that you as a donor will receive. If you have any questions, or would prefer to mail a check rather than donate online, please email [asce@uw.edu](mailto:asce@uw.edu). Thank you for your support!



[\*\*Click Here to Donate!\*\*](#)





In April 2020, the ASCE Aerospace Division will be hosting the 17th biennial International Earth and Space Conference in Seattle, Washington. There will be experts and leaders from around the world in civil engineering, construction, architecture, aerospace engineering, in-situ resource utilization, planetary science and more! The event will highlight cutting edge work in engineering, science, construction, and operations for extreme environments on Earth and in Space. For additional details see: <https://www.earthspaceconference.org/>

There will be more than 200 technical papers presented over the 4-day conference which include a pre-conference short course and post-conference tours. Special programs for the plenary sessions should be of particular interest to students and young professionals. **As a special incentive particularly for local students, students are invited to attend the plenary sessions free of charge!**

## Puget Sound Engineering Council Coordinates Engineers Week Activities

Founded in 1951 by the National Society of Professional Engineers, Engineers Week is celebrated annually by thousands of engineers, engineering students, teachers, and leaders in government and business. In 1988, the National Engineers Week consortium expanded its scope and now includes more than 100 engineering, scientific, and education societies and major corporations dedicated to promoting pre-college interest in math and science, and engineering as a career option. The Foundation also works to enhance the public understanding of engineering.

Traditionally, Engineers Week falls on the week of George Washington's Birthday. President Washington was the first military engineer and land surveyor and is considered the father of the American engineering profession. The purpose of Engineers Week is to highlight our profession to our community, to honor significant achievements of our members, and to note the importance of our profession in the quality of life that our community enjoys.

The Puget Sound Engineering Council (PSEC) is an umbrella organization for over 20 engineering organizations in the region, including ASCE. PSEC's involvement with Engineer's Week has included hosting an engineering fair for K-12 outreach and an Engineering Awards Banquet to honor outstanding engineers and STEM educators in the region. While Engineers Week will officially start on February 16<sup>th</sup>, the PSEC events are typically held in advance of Engineers Week to increase participation because of school holidays.

The following highlights some of the planned activities for Engineers Week and the Seattle Section's participation in these events:

### Engineering Fair – February 8th

As an early start to Engineer's Week, the Engineering Fair will be held Saturday, February 8<sup>th</sup> from 10 am to 4 pm at the Museum of Flight at 9404 East Marginal Way South. The event, which will be free and open to the general public, will be hosted by PSEC with participation from over 25 professional engineering societies and local colleges and universities. Each participating entity will staff booths with volunteers with interactive displays, posters, handouts, models, with the emphasis on hands on engineering experience that will inspire students to pursue studies in math, science and engineering.



ASCE will have a display booth at the fair again this year and the booth will be staffed by volunteers from the Section. Our display will include interactive activities such as building structures with gumdrops and toothpicks or straws and paperclips. The volunteers from past years had a great time and enjoyed interacting with the students.

In addition to the Section's display booth, the Younger Member Forum (YMF) hosts the Popsicle-Stick Bridge (PSB) Competition at the fair in which over 20 teams of students from regional schools compete in various categories to see who builds the strongest bridge or which team can most accurately predict the maximum load carried by their bridge. This is a great and must see event that showcases the talents of the competing teams as well as the organization and enthusiasm of the YMF in orchestrating the

event! For more information about the Fair visit PSEC's website at [www.pseconline.org](http://www.pseconline.org).

Student teams enter their bridges in the PSB competition and the entries are judged on various categories from aesthetics to load capacity.

### **Engineer's Award Banquet – February 15th**

The 62<sup>nd</sup> Annual PSEC Awards Banquet will be held Saturday, February 15<sup>th</sup>, at 6:00 – 9:00 PM at the Boeing Museum of Flight. This is a unique opportunity to celebrate the profession of engineering and to recognize the extraordinary achievements of our colleagues.



This year's keynote presentation will be provided by Ms. Susan Everett, Project Manager with the Washington State Department of Transportation (WSDOT). Ms. Everett's presentation will focus on challenges with the construction of the SR 99 tunnel in Seattle.

All of this year's awards will go to members of the Seattle Section, including Ms. Everett, the featured speaker at the banquet! Honorees for the evening will include the 2020 PSEC Academic Engineer of the Year, Government Engineer of the Year, WSPE Professional Engineer of the Year, the Kenneth W. Porter Award (engineering outreach) and the Young Engineer of the Year. This year's awardees include:

Academic Engineer of the Year (joint ASCE and SEAW nomination)

Laura N. Lowes, PhD, M. ASCE and F. ACI

Department of Civil and Environmental Engineering

University of Washington

Government Engineer of the Year

Susan L. Everett, P.E., M. ASCE

Washington State Department of Transportation

Professional Engineer of the Year (joint ASCE and SEAW nomination)

Andrew W. Taylor, P.E., S.E., M. ASCE, M. SEAW, F. ACI

KPFF Consulting Engineers

Kenneth W. Porter Award

Kristina N. Low, P.E., ASCE

Structural Design Engineer

KPFF Consultants

Young Engineer of the Year

Bobbie Gilmour, YM. ASCE

Kennedy Jenks

Please join us at the banquet to honor the awards winners. For more information on the banquet and a link to the registration page, visit: <https://www.eventbrite.com/e/2020-psec-engineering-awards-banquet-tickets-88453939113?aff=erelexpmit>

## **Safety Assessment Program (SAP) Training**

The goal of the Safety Assessment Program (SAP) is to help local government perform accurate facility safety assessments as quickly as possible. This will allow people to use safe homes and businesses, and ensure that people are prohibited from entering unsafe structures after a disaster. SAP Evaluators survey damaged facilities to determine if there are safety hazards to building occupants or to the general public. SAP Evaluators also provide recommended posting of placards that denote the condition of each structure evaluated. This full-day Evaluator Training class, trains Civil Engineers, Architects, Plans Examiners and Building Inspectors to do field evaluations of building and other infrastructure for safety.

### **Save the Date for Upcoming SAP Training!**

**When:** Thursday, April 16, 7:00am - 4:00pm

**Where:** 2nd floor conference room at St Martin's University, Cebula Hall (accommodates 30-35)

**Cost:** \$80 for members and \$110 for non-members, including food. Students and faculty will be free.

## **Committee Volunteer Opportunities**

## Legislative Committee

If you are interested in joining the Legislative Affairs Committee, please reach out to [legislative@seattleasce.org](mailto:legislative@seattleasce.org). For 2020 we will be meeting by teleconference monthly on the first Friday at 8:30 am during the 2020 legislative session. Dates include February 7, March 6, April 3, and May 1.

ASCE Seattle Section is searching for volunteers to assist with the Legislative Affairs Committee. The level of Involvement can vary and can include providing engineering judgement on current legislative issues to assisting with lobbying. The committee is interested in a Legislative Drive-In to Olympia during the 2020 WA State Legislative Session.

The Legislative Committee functions in the political arena with focus on federal, state, county or other governmental issues that are of interest to the civil engineering profession; such as university engineering budget considerations, issues that affect the practice of or employment of civil engineers, and environmental issues of significance to the profession. The committee reviews proposed legislation and comments on it with regards to its effect on the civil engineering profession and may also be called upon to testify at Legislative hearings or for other governmental committees. It is also responsible for disseminating information from the Architects and Engineers Legislative Council (AELC) pertaining to state legislation. The committee typically sends at least one representative to the Society's annual Legislative Fly-In in Washington D.C.

## Current Job Openings

- **Mid to Senior Level Structural & Civil Engineers: Marine, Port, & Federal Infrastructure** - Reid Middleton
- **Civil Project Engineer** - Reichhardt & Ebe Engineering
- **Project Engineer / Project Landscape Architect: Project Manager** - D.A. Hogan & Associates
- **Engineer-in-Training (Civil) / Staff Landscape Designer** - D.A. Hogan & Associates

**Click here** to apply or post your job today!

**Click to View Job Descriptions & Apply!**

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PROFESSIONALS**

**Click Here to Post  
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Advertise your current open positions to ASCE Seattle members today for only \$75 for the first month and \$50 for each subsequent month.

[Emailcommunications@seattleasce.org](mailto:Emailcommunications@seattleasce.org) to [learn more.](#)



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