

April 2019

April ASCE Seattle Section Dinner Meeting
Mexico City Infrastructure Resiliency Investigation

**Executive Inn
 by the Space Needle**
 200 Taylor Ave N
 Seattle, WA 98109

5:30pm Social Hour
 6:00pm Dinner
 6:30pm Program

Wednesday, April 24

In November of 2017, the ASCE Infrastructure Resilience Division (IRD) investigated the performance and recovery of Mexico City following two earthquakes occurring in September of that year. Damage predominately occurred due to the second earthquake on September 19, 2017 that was centered in the state of Puebla approximately 160 km southeast of Mexico City. The unique geologic setting of the Mexico City Basin has led to many geotechnical and structural related challenges over the past 100-years. Some of these issues were further exacerbated by the Puebla Earthquake, directly effecting the performance and emergency response of the city following the event. During the investigation, the team interviewed several government and private agencies, members of the public, and researchers to learn both how the city handled these challenges and the steps they are taking to mitigate issues from future events. This presentation will cover the teams observations of the damages to structures and lifelines, an overview of the successes and lessons learned from the city's emergency response, and takeaways for future planning and engineering projects in the Pacific Northwest.

\$45 (\$40 early bird) for Members

\$55 (\$50 early bird) for
 Non-Members & Guests

\$35 (\$30 early bird) for
 Government Employees

\$25 (\$20 early bird) for students

Early Bird Registration
 ends after April 17

Click Here to Register

Speaker:
 Jeff Bruce, PE, Hart Crowser



April President's Column

By Eset Alemu, PE, CFM, Seattle Section President

**Section Officers
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**Newsletter Editor
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Spring has sprung!! As this is the season for regeneration and new growth, I was pondering the topic of rebuilding communities in the wake of natural changes and unexpected events. This was brought on by last month's dinner meeting topic on impacts of earthquakes and February's snowstorm that brought our city to a standstill. The March dinner meeting was on an interdisciplinary research project at the University of Washington on the impacts of a Magnitude 9 Cascadia Subduction Zone earthquake on the Pacific Northwest. This topic had been the subject of a 2015 [New Yorker article](#) that highlighted the risks our city faces from earthquakes and the challenges recovering from such an event. Similarly, but on a much smaller scale, the snowstorm in February had exposed vulnerabilities in our electrical utilities, transportation and public transit system.

As the seasons revolve, we experience different magnitudes of disasters around the nation such as wildfires, hurricanes, flooding,

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**MAY 2019
NEWSLETTER
CONTENT DEADLINE:
April 20, 2019**

and cold weather fronts. These events bring the nation's attention to infrastructure vulnerabilities and the critical role of civil engineers and constructors as first responders. In addition to designing the built environment including water, energy, utilities, transportation, communication, and building systems, civil engineers' responsibilities extends to ensuring these infrastructures can be protected from service interruptions, inclement weather and natural disasters. Civil engineers also actively contribute to post disaster assessment and recovery activities to enhance public health, safety, and welfare in the aftermath of man-made and natural disasters.

In accordance with its [Emergency Preparedness and Response Policy](#) ASCE National supports comprehensive planning, education, and training initiatives that increase the ability and readiness of civil engineers to quickly and effectively respond to all events that impact the nation's physical infrastructure. On a local scale, the Seattle Section contributes to these efforts through its collaboration with the Washington State Military Department — Emergency Management Division (EMD) and the Washington Safety Assessment and Facilities Evaluators (WAsafe) which is a coalition formed by American Institute of Architects Washington Council (AIA-Washington); the Structural Engineers Association of Washington (SEAW); and the Washington Association of Building Officials (WABO).

As part of this coalition, ASCE is one of the professional organizations that train and organize groups of volunteer safety assessment and facilities evaporators. Post-event assessment as well as structural condition evaluations, are some of the areas that our organization can contribute. The Seattle Section is looking for volunteers to represent ASCE in the planning efforts for the WAsafe coalition. I urge you to participate in this effort as it is a great opportunity to be a resource in the engineering community and to take part in building resilient communities. Please contact me at President@seattleasce.org if you are interested in participating in the planning efforts for ASCE's emergency response and assessment.

**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 if you plan on joining us!

ASCE Seattle Student Scholarships Apply by April 20!

[R. H. Thomson Scholarship](#)

The R. H. Thomson Memorial Scholarship is an annual scholarship awarded by the Seattle Section each year to honor the accomplishments of R.H. Thomson. The application must be postmarked by April 20, 2019 and announcement of the recipient will be made by June 30th. The scholarship in the amount of five-thousand dollars (\$5,000) will be awarded for the 2019-2020 school year. The disbursement could be in one year or in four years, depending on the recipient's college career schedule. The aim of the scholarship program is to encourage students to pursue a course of study leading to a Bachelor or a Master of Science degree in Civil Engineering or one of the specialties within the Civil Engineering discipline. It also strives to honor R. H. Thomson, a civil engineer who had a profound and lasting impact on Seattle's infrastructure.

For more information please read the [application](#).

[Richard Williamson Jones Scholarship](#)

The Richard Williamson Jones Memorial Scholarship was established by his wife, Kathie, because Richard often commented that when he was a student, he would have been much better off if he had just had a little more money for books and supplies. The scholarship continues through Kathie Jones' estate.

Richard Jones was a civil engineer and a member of the Seattle Section of ASCE, when he died in an

airplane crash at the age of 53. He was a graduate of the University of Washington and was admitted as a Member of the Society in 1949 and as a Fellow in 1959. Mr. Jones joined General Construction Company in 1933 where he worked on many projects in the Seattle and Portland area, including the Bonneville Dam and as Chief Engineer on the Hungry Horse Dam. At the time of his death, he was Executive Vice President of General Construction Company.

The maximum scholarship amount distributed annually is \$2,000. The deadline for the next award is April 20, 2019. For more information please read the [application](#) or contact Diana Hasegan at diana@hasegan.com or (425) 516-7626.



Upcoming ASCE Seattle Events

Never miss a Seattle Section event, link our calendar to your Outlook today!

Have you seen our new event calendar? [Click here](#) to see what exciting events we have planned!

The best way to stay up to date on Seattle Section happenings is to **add our calendar to your Outlook** or other email manager. All you have to do is [click here](#) to download a .ics file that you can open and add to your own calendar.

Dale Nelson Memorial Scholarship Fund

Dale Nelson, an extremely dedicated ASCE member from Anchorage, AK, who rose to serve as Region 8 Director from 2015 to 2018, has passed away. The Alaska ASCE Section has announced that Dale Nelson's wife and children have expressed their desire that memorial gifts honoring our former Region 8 Director's memory should be used to fund scholarships for civil engineering students at the University of Alaska. Accordingly, the University of Alaska Foundation has set up a Dale Nelson Memorial Scholarship Fund holding account where donations will be gathered. The goal is to create a named scholarship fund or an endowed scholarship in Dave's name. The initial fundraising goal of \$5,000, which is required to establish a named fund has already been reached. It is hoped that the \$25,000 level needed for an endowed scholarship will be reached soon, but the main objective is to provide scholarships for needy civil engineering students. The ASCE Seattle Section has made a \$500 donation to this scholarship fund.



Donations can be directed to the University of Alaska Foundation, marked on the memo line with "In Honor of Dale Nelson", "In Memory of Dale Nelson", or "Dale Nelson Memorial Scholarship Fund". For online donations, go to <https://engage.alaska.edu/> select "Other" as designation and write "Dale Nelson Memorial Scholarship Fund" in the comment section.

We appreciate everything Dale Nelson has given back to the ASCE community and wish his family the best.

ASCE YMF Networking

Westside Networking

Redhook Brewlab
Thursday April 11th
5:00 PM - 7:00 PM
Redhook Brewlab
714 E Pike St
Seattle, WA

Don't miss this opportunity to network with younger members from not only the ASCE Seattle Section, but the Structural Engineers Association of Washington (SEAW)!

Sign up [here](#)!

If you have any questions, please email [Matt](#).

Eastside Networking

Pearl
Tuesday, April 16th
5:30 PM - 7:00 PM
Pearl
700 Bellevue Way NE, Ste. 50
Bellevue, WA 98004

Come meet other young professionals in the civil engineering field with good happy hour drinks and food.

If you have any questions, please email [Eamaan](#).

[Add to my Google Calendar](#)

ASCE Seattle Geotechnical Group Spring Short Course & Seminar

We are pleased to announce our 36th annual Spring Seminar on Excavation Support and Dewatering. This topic was the winner in the survey among our members at last year's annual spring seminar.

Excavation failures are particularly dangerous because it can happen quickly, limiting the ability of workers and in some cases others nearby to escape especially if the collapse is extensive. Properly designed and cost effective excavation support are therefore crucial. Groundwater is the number one source of underground construction problems and its effective control is critical.



Back by popular demand, the seminar and short course on "Excavation Support and Dewatering" will cover excavation analysis and procedures related to support of excavation, method of installation and dewatering. For the seminar, there'll be presentations by prominent speakers on unique high-rise condominium shoring, shoring state of practice, estimating shoring deformations, how dewatering systems interact with shoring, estimating settlement due to shoring, and case histories. In the Short Course participants will have the opportunity to go into greater detail through the phases of deep excavation beginning with an overview of excavation supports, analysis and design, construction and water control that will also include ground freezing.

[Click here to register for the Short Course.](#)

[Click here to register for the Seminar](#)

[For program details for both Short Course and Seminar click here.](#)

Rebuilding Together Volunteer Activity



When: Saturday, April 27, 8:00am - 4:00pm

Where: West Seattle -Address will be emailed to attendees

[Register Here.](#)

There are over 37,000 low-income homeowners in the Seattle area that are in need of home repairs they cannot afford. On April 27, 2019, ASCE member volunteers will take part in Rebuilding Together Seattle's Spring Rebuilding Day. On this day, nearly 750 volunteers will work together on 25-30 houses and nonprofit facilities. You can be one of them!

The event is from 8 am to 4 pm, and volunteers will be provided with doughnuts and coffee, lunch, and water. Volunteers are encouraged to bring gloves, sturdy boots, and any other gear to work in, rain or shine. Up to 20 to 40 volunteers needed.

NO EXPERIENCE NECESSARY. It's a good opportunity to get more hands on and build something!

This year's event will be in West Seattle (address will be provided to registered attendees). For more information on Rebuilding Together, see this [slideshow](#) or visit their [website](#). [Contact Shirley Wu](#) for any questions.

ASCE YMF Tech Talk

Construction Observation and Inspection

Tuesday, April 30th

6:00 PM - 7:00 PM

Kennedy Jenks

1191 2nd Ave, Suite 630

Seattle, WA 98101

Please join the Seattle ASCE YMF for the April Tech Talk at Kennedy Jenks in Seattle. Bobbie Gilmour will share her experience in construction observation and inspection on municipal water projects. Bobbie has been a site inspector,



construction observer, and field engineer on a \$350 million wastewater treatment upgrade and expansion project and a \$262 million CSO facility.

Kennedy Jenks will provide refreshments and drinks. The office is in the downtown Seattle close to several bus lines as well as one block away from the University Street Light Rail Station.

[Add to my Google Calendar](#)

If you are interested in presenting or hosting/sponsoring a tech talk in the future, please contact [Elyssa Dixon](#).

ASCE YMF Annual Executive Forum

Thursday, May 23rd
6:30 PM - 8:30 PM
Seattle Central Library
1000 4th Ave,
Seattle WA

Engineering for Good: Building and Rebuilding Vital Infrastructure

This year's Executive Forum will center around disaster response and rebuilding, as well as projects which support community improvements throughout the United States. Gain valuable information on an important, and often overlooked, aspect of the civil engineering field. Industry executives in the public sector, private sector, and construction industry will share their thoughts, ideas, and experiences regarding rebuilding and recovery efforts in the last decade.

Appetizers and beverages will be served; socialize and network prior to the Memorial Day weekend. Note that an RSVP will be required for admittance, please look for an official RSVP link in the mid-April Newsletter.

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This event is still looking for sponsorship from AEC firms, and local vendors. Please contact the YMF to provide event support. Any specific event questions can be directed to [Glenn Schwantes](#)

ASCE YMF Volunteer Opportunities

Aviation Exploration Day

Saturday April 6th
12:30 PM - 4:00 PM
Bailey Gatzert Elementary
1301 E Yesler Way
Seattle, WA 98122

Volunteer that this unique event to inspire underrepresented kids in grades 5-7 to pursue careers in STEM! We need at least 2 volunteers in order to table. Carpooling options to be coordinated.

If you are interested in signing up or have further questions, please email [Katarina](#).

Curiosity Days

Saturday May 4th or Sunday May 5th
Time TBD
Pacific Science Center

Come volunteer at the ASCE table at this fun event and lead kids through engaging civil engineering challenges!

Email Katarina at kubinkat@gmail.com with questions or to sign up.

UW Presenters Wanted for Lunch and Learns

The ASCE student chapter at the University of Washington is looking for representatives from local civil engineering firms to present on campus through their ongoing *Lunch and Learn* program.

For more information, please email [Peter](#).

Committee Volunteer Opportunities

Urban Development & Transportation Committee

The Seattle Section is currently searching for two motivated members to lead and revamp the Urban Development and Transportation Committee take charge of the committee. The purpose of this committee is to provide a forum for engineers and designers to discuss the intersection between transportation and urban planning and network with professionals with similar interests. This committee intends to. The committee will host monthly or bimonthly meetings and/or site visits. It can also get additional support from ASCE National's Transportation and Development.

This is a forum for ASCE members and non-members to discuss the issues facing the city and the world today, and how engineering and design are influencing the change. Seattle is going through a rapid and huge transformation of its urban fabric with the arrival of thousands of new employees every month. This has created traffic on the streets and highways, apartment and office space buildings popping up left and right around the city, and new rail systems and bicycle friendly infrastructure.

Please contact [Homero Flores](#) if you are interested in leading or participating in this group.

Legislative Committee

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 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.

Please contact the Legislative Chair [Mark Koelling](#) for more information.

Current Job Openings

- Civil Plan Review - City of Marysville
- Senior Stormwater Engineer - Washington State Department of Ecology
- Risk Manager - DOWL

[Click to View Job Descriptions & Apply!](#)

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