

**February 2021**

**ASCE SEATTLE FEBRUARY JOINT MEETING WITH GEO-INSTITUTE:**

**ACCOMODATING ANCIENT LANDSLIDE MOVEMENT WITH A COMPRESSIBLE INCLUSION**

JOIN US VIRTUALLY ON ZOOM  
**WEDNESDAY, FEBRUARY 10**  
**5:30PM - 7:00PM**



**Speaker:** Tom Westover, Senior Associate Engineer, Cornforth Consultants

During original construction of open reservoirs at the Washington Park site in the 1890's, the Portland Water Bureau discovered a large ancient landslide. The landslide initially moved at several inches per week, but was mitigated down to about 1/8-inch per year. A project to improve the reliability and protection for the City of Portland's water supply is currently in progress, where the reservoir will be replaced with a gravity-fed buried 12.4-million gallon concrete tank. The reservoir will be isolated from continued landslide movements using an innovative compressible inclusion. The design required integration of behavior of the landslide, compressible inclusion, foundations, and irregularly-shaped reservoir structure under complex seismic and hydrodynamic loading. This presentation will discuss the history of the landslide, the current improvement project, the foundation design and soil-structure interaction model, and the performance of the landslide during construction. The design philosophy and mechanics of the compressible inclusion will be described, along with an overview of the seismic response and soil-structure interaction. [More.](#)

**Click Here to Register & Add to Calendar**

**Date:** Wednesday, Feb. 10  
**Time:** 5:30pm-7:00pm

*After registering, you will receive a confirmation email containing information about joining the meeting via Zoom.*



**February President's Column**

By Javier Homero Flores Cervantes, PhD, PE  
 ASCE Seattle Section President

Greetings to everyone. This month has been a whirlwind of ASCE activity for me! There's action happening at all levels, from the UW student chapter preparing to host their [virtual ASCE regional conference](#) (with 12 other Universities!), multiple presentations hosted by different groups of the Section, a workshop on how to call up clients, to preparing for our annual regional business meeting. All of these activities remind me of what we can achieve when we form teams and collaborate.

**Section Officers Contact**

Our Section is big. We're about 2200 members, including our North and Kitsap Branches, and our UW and Seattle U student chapters. We have a huge team of volunteers working to carry out different roles for the Section, you can see all of them in our [organizational chart](#). Outside of our Section, we have relationships with our

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Forum

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**MARCH 2021  
NEWSLETTER  
CONTENT DEADLINE:  
February 20, 2020**

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neighboring Sections, with our Regional officers (Seattle is part of ASCE's Region 8), and with ASCE Society's headquarters in Washington D.C. As you can imagine, coordinating with everyone can be challenging.

Just last month, in a conference call about the student's regional conference, I had the pleasure of meeting the faculty advisor for UW, Professor Peter Mackenzie-Heinwein. He is super involved with the students, guiding them through the concrete canoe competition, organizing this year's student regional conference, and supporting the student chapter overall. It's surprising that in the past we have had so little communication. But despite our lacking communication, the ASCE student chapter is thriving!

Still, I wonder how we could improve the connection and communication among all these different parts of the Section. I also wonder if working on those connections would allow our efforts to yield more. It is no easy feat to foster connection and communication, and we are all trying. As a Section we hold joint meetings with the different technical groups and with the younger members, we invite students to the Section dinner meetings, and we still have missed opportunities for collaboration and communication.

Having said that, our Section has many examples of successful collaboration. One of our best examples is the Younger Member Forum (YMF), which sets up dozens of events each year, and has an energy that is always attracting new members. Our collaboration with technical and non-technical groups, students, and branches, continues to grow stronger, as well as our connection to Society (aka, National) and Regional levels, including better collaboration with the Tacoma/Olympia Section. All of this collaboration generates a synergistic energy that invigorates us and allows us to give back more to you, our membership. It would be impossible to do any of this by ourselves, no matter how hard we worked.

Speaking of collaboration, don't forget, on February 10, we will be having our [Joint Section Dinner with the Geotech Group](#) featuring a speaker from Portland! Our presenter will be discussing landslides affecting Portland's water source reservoirs. Check it out!

This month, I invite you to reflect on what it takes to nourish connection and communication in your teams and communities. What are the costs, and what are the benefits? As we move forward into 2021, [we welcome your input](#) towards strengthening our Section's connections and collaborations. We are very happy to have you get involved.

Are you considering becoming an ASCE Member? Each month we'll be highlighting a unique benefit of membership.

**Member Benefit: Take Control with [ASCE Career By Design](#).** Plug in to ASCE's new online portal for young civil engineers. Get the tools, tips, resources, and opportunities you need to advance your career. • Skills Development • Licensure • Entrepreneurship • Innovation • Management Career Tracks [asce.org/careerbydesign](https://www.asce.org/careerbydesign)

**[Join ASCE Today!](#)**

ASCE has been bringing the global civil engineering community together since 1852. With more than 150,000 members across 177 countries, ASCE gives you access to everything you need to move your career forward faster. [To learn about all the great Member Benefits, check out this guide!](#)



**NOMINATIONS DUE THIS MONTH!**

2021 ASCE SEATTLE  
**LOCEA**  
AWARDS

**DUE 2.22.2021**

**LOCAL OUTSTANDING CIVIL ENGINEERING ACHIEVEMENT**

Click the image above to find out how to nominate your project by February 22!

## Calling All Students! Scholarships Available!

**Are you a student or do you have a student in your life?** Then you should take a look at ASCE Seattle's THREE open scholarship opportunities! Historically, ASCE Seattle has not received many applications for these scholarships - and we want that to change! Don't let this opportunity slip by you - applications won't take you long and, if you meet the requirements, your chances of being awarded funds are high! [Visit our Scholarship Page](#) to learn more and download the application forms.



### ASCE SEATTLE SCHOLARSHIPS!

#### SEATTLE YMF SCHOLARSHIP

**DUE APRIL 3, 2021 (\$1,000!)**

#### R.H. THOMSON SCHOLARSHIP

**DUE APRIL 25, 2021 (\$5,000!)**

#### RICHARD WILLIAMSON JONES MEMORIAL SCHOLARSHIP

**DUE JUNE 25, 2021 (\$2,000!)**

## February Committee Meetings & Events

### History & Heritage Committee Meeting Saturday, February 6 @ 8:30am

ASCE Seattle's History and Heritage Committee is meeting via video and phone call-in. If you are interested in learning more about the committee and/or participating in their meetings, please reach out to [Cindy Hirsch](#).

The Seattle Section History & Heritage Committee's charge is to fulfill the goal of ASCE's History and Heritage Committee (HHC), which is to enhance the knowledge and appreciation of the history and heritage of civil engineering for professionals and the public alike. [Read more here.](#)

### ASCE Seattle Section Social, February 26 @ 5:30pm

A night of networking, trivia, and games to celebrate E-Week!

Save-the-Date: February 26, 2021, 5:30p-7:30p

### EWRI Committee Meeting Thursday, February 18th @ 12:00pm

Topic: Planning for Climate Change in King County

Contact [seattleascewre@gmail.com](mailto:seattleascewre@gmail.com) if you are interested in being added to the Seattle Section EWRI mailing list to make sure you receive future EWRI meeting notices!

#### Speaker

Lara Whitely Binder, King County

### YMF Virtual Happy Hour, February 18 @ 6:00PM

West side is the best side! Please join the Seattle YMF in a joint event with San Bernardino, Tacoma/Olympia, Inland Empire, Portland, Willamette and other YMFs along the west coast

Engineers Week (or E-Week) is February 21 ~ 27, 2021. This is a chance for us to celebrate how engineers make a difference in the world. To learn more about E-Week, visit:

[asce.org/event/2021/engineers-week/](https://asce.org/event/2021/engineers-week/)

We will be hosting some trivia with prizes. We will also do networking and break out into groups to play different games afterwards. More details to come in a separate event email.

for a virtual bar hopping night!

**February 18th @6 PM PST**

We hope to show you around and speak easy with people.

\*PLEASE UPDATE ZOOM, THIS IDEA WILL NOT WORK IF YOU DO NOT HAVE THE MOST RECENT VERSION\* (Version 5.4.9)

Please join us for this fun event.

[Sign up Here!](#)

## Upcoming Volunteer Opportunities

### YMF Conference Coordinators

The Seattle YMF is looking for Conference Chairs! Every year, the Multi-Regional Leadership Conference (MRLC) is held throughout ASCE's Region 8 & 9, which includes the Western Regional Younger Member Council (WRYMC) and the Workshop for Student Chapter Leaders (WSCL).

The Seattle YMF is working towards putting a bid to host the MRLC in Seattle in 2024! While it may seem early, we are looking for Conference Chairs to organize and plan the conference events!

Please reach out to [ymf@seattleasce.org](mailto:ymf@seattleasce.org), [BobbieGilmour@kennedyjenks.com](mailto:BobbieGilmour@kennedyjenks.com), or [MackenzieCapaci@kennedyjenks.com](mailto:MackenzieCapaci@kennedyjenks.com)



### StormFest

**Who:** Stormfest is looking for environmental professionals to be part of a video series about jobs in this sector, viewed by 6th grade students. These could be CESCLs, Environmental or Civil Engineers, Maintenance, or others. In the short videos, the professionals will describe their job, what they like about it, and what skills they use in their job.

**What:** StormFest is a hands-on, outdoor stormwater and watershed science education program for sixth grade students in the Highline School District. The program was developed to teach students what stormwater is, how it harms water quality and habitats, and how to manage stormwater to protect fish and wildlife.

**When:** TBD. This upcoming Winter/Spring

**Where:** Virtual!

**Why:** This is a great opportunity to inspire and share your experiences with the next generation of Civil Engineers!

Please contact Nicki at [k12asce.seattle@gmail.com](mailto:k12asce.seattle@gmail.com) if you are interested.

## STEM for Kids! Popsicle Stick Bridge Competition

Are you looking for a fun STEM activity for your high school or middle school aged kids? Encourage them to participate in the Popsicle Stick Bridge Competition\*, hosted by Seattle ASCE Younger Member Forum! Students can form teams of up to 4 students, and submit a bridge to be tested until failure on competition day. The best bridges will win prizes! Competition is March 6th, and bridges will be due 2 weeks ahead of time.

Check out the rules on our website: <https://www.seattleasceymf.org/psb>

Fill out the interest survey here: <https://docs.google.com/forms/d/e/1FAIpQLSdVKIRfxQuq-iHobLO6YdppcjOweeXb-OJ7HrFcLdz2T0tqlgQ/viewform>

\*This year the competition will be held virtually



# ASCE Convention Call for Presentations

The ASCE 2020 Virtual Convention was a success thanks to the hard work and expert knowledge of our presenters. Do you have professional insights and industry best practices you'd be willing to share? We're looking for you!

The ASCE 2021 Technical Program Subcommittee is currently accepting proposals for presentations for the next ASCE Convention, taking place in Chicago, IL on October 6-9, 2021. Help us make the ASCE 2021 Convention a rewarding experience by submitting an abstract today. Interact with the Industry's best and brightest civil engineers and engineering students while imparting your knowledge.

## [SUBMIT ABSTRACT](#)

### Key Dates:

- Submissions Due: February 8, 2021
- Author notification: Late March, 2021

# 2021-2022 ASCE Seattle Board Nominations

Have you been thinking about getting more involved in ASCE? Please consider joining the Seattle Section Board for the 2021-2022 year. We are a fun and energetic group that seeks to bring value to the ASCE Seattle Section membership. The Seattle Section is seeking nominations for 2021-2022 Board positions. Email past president [Henry Haselton](#) or current president [Homero Flores-Cervantes](#) if you are interested in any of the following positions:

1. President Elect
2. Secretary
3. Director of Standing Committees

**Nominations are due by March 20, 2021**

# 2021 ASCE PNW Student Conference

The University of Washington ASCE Student Chapter will be hosting the 2021 Pacific Northwest ASCE Student Conference. This year's student conference will be held online and will take place from **April 15th to 17th, 2021**. The competitions taking place will include Concrete Canoe, Water Treatment (Environmental), UESI Surveying, Sustainable Solutions, Technical Paper (Daniel W. Mead), and Timber-Strong Design Build (TSDB).

To find more information about the conference, [please check out our website here.](#)

Lastly, we would like to recognize our amazing sponsors for their generous donations. Thank you so much for helping to support the next generation of Civil Engineers!

The University of Washington Chapter is proud to be hosting this year and wishes everyone the best of luck!

# 2021 ASCE PACIFIC NORTHWEST STUDENT CONFERENCE

APRIL 15TH-17TH, 2021

## COMPETITIONS

Concrete Canoe  
Water Treatment (Environmental)  
UESI Surveying  
Sustainable Solutions  
Technical Paper (Daniel W. Mead)  
Timber-Strong Design Build (TSDB)

More information and  
updates at:  
[https://studentconferences.  
asce.org/pnw/](https://studentconferences.asce.org/pnw/)



Or contact us at  
[asce@uw.edu](mailto:asce@uw.edu)

THANK YOU TO ALL OUR SPONSORS!



AND TO ALL OUR DONORS!

David Peden, Pratistha Kansakar, Romulos Ragudos, Theodore Hanson,  
Henry Haselton, Dawson Stoops, Ari Asarch, and our anonymous donor.

## WAsafe Building Safety Evaluation Training

**What:** Offered as part of Washington State Building Officials' Annual Education Institute Virtual Training. Choose 1 day to satisfy WAsafe requirements. Typically an 8 hour in-person training, this is only the second virtual substitute that has occurred here in WA since March!

**When:** 8:30am - 4:30pm on 3/18

**Who:** Available to members and non-members of WABO alike

**How:** Register here: <https://www.wabo.org/2021-aei-summary-page--virtual>

**Cost:** \$175 for the 3/18 WAsafe Training

# Washington Safety Assessment of Facilities Evaluators Program (WAsafe): Building Safety Evaluations R Us

**INSTRUCTOR:** Jon Siu, PE, SE, ACO - Jon Siu Consulting  
Paul Brallier, SE - Structural Engineers of Washington (SEAW)  
Hoyt Jeter, PE - Clarity Consulting Engineers, PLLC  
Pat Beaulieu & Jeff Krieg - Seattle Department of Construction & Inspection (SDCI)

**LEVEL:** Beginning, Intermediate

**CODES RECOMMENDED:** ATC-20 Field Manual (minimum); ATC-45 Field Manual (optional). Available through Applied Technology Council (<https://store.atcouncil.org/>) or the WABO Bookstore

We're all familiar with natural disasters, but mostly from a distance. The Pacific Northwest has seen wildfires in recent years, but has not otherwise experienced a widespread damaging event for many years. WAsafe was formed to organize and train a cadre of construction industry professionals to provide assistance to local jurisdictions when they are called upon to determine whether buildings are safe enough to occupy.

This full-day course will cover the basics of building safety evaluations for a variety of hazards, based on building safety evaluation programs for earthquakes, windstorms and floods (ATC 20 and ATC 45), using examples from real events. The class will also cover response to landslides, fires, and other hazards. Students will also be introduced to the statewide process for volunteer emergency worker enrollment and dispatching being coordinated through WAsafe. Taking this course is one of the requirements for those who wish to enroll in the WAsafe program, or for those whose enrollments are expiring and want to renew.

This class is appropriate for any building department staff and design professionals, as well as newcomers to emergency response and those who just need a 5-year refresher. How prepared are you to respond to an emergency event in your community? This class will help you develop the knowledge and skills to prepare for and respond to a damaging event.

## Target Audience:

- |  |  |   |  |  |  |
|--|--|---|--|--|--|
| <input checked="" type="checkbox"/> Building Officials | <input checked="" type="checkbox"/> Inspectors | <input checked="" type="checkbox"/> Plans Examiners | <input checked="" type="checkbox"/> Permit Technicians | <input checked="" type="checkbox"/> Architects | <input type="checkbox"/> Fire Marshals |
| <input checked="" type="checkbox"/> Designers          | <input checked="" type="checkbox"/> Engineers  | <input checked="" type="checkbox"/> Contractors     | <input type="checkbox"/> Other Professions:            |  |  |

## Branch & Committee Volunteer Needs

### North Branch Board & YMF

The North Branch is currently looking for motivated individuals to be part of the North Branch Board starting from October 2020 until September 2021. We have the officer positions of **President, Vice President, and Secretary/Treasurer** open. The North Branch serves approximately 150 members in the counties of Whatcom, Skagit, San Juan, Island and Snohomish.

The 2020-2021 North Branch Board will help grow the Branch through member engagement and providing value to its members through events and communications such as membership meetings, email newsletters, and other means which the North Branch Board envisions as paths for growth to continue the momentum for the established Branch. The leadership positions will include the full support from the Seattle Section Board and its resources, leadership training opportunities for the new officers, and Society (ASCE National) level resources and contacts. Prior experience in ASCE leadership positions is not required. Please contact Tony Nguyen, Director of Branches, at [branches@seattleasce.org](mailto:branches@seattleasce.org) for more information.

The North Branch is also seeking YMF volunteers to continue to maintain and grow it's YMF. Please contact Mark Rose, North Branch YMF President, at [mrose@geoengineers.com](mailto:mrose@geoengineers.com) for more information.

### Legislative Committee

If you are interested in joining the [Legislative Affairs Committee](#), please reach out to [legislative@seattleasce.org](mailto:legislative@seattleasce.org).

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.

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## ASCE Seattle Job Board

### Current Job Openings:



#### **Public Works Director | City of Maysville**

*Posted: 1/22/2020*

SALARY: \$167,690.00 - \$214,635.00 Annually

OPENING DATE: 12/17/20

CLOSING DATE: Continuous

#### **POSITION SUMMARY:**

[View Public Works Director flyer](#)

First Consideration: on January 11, 2021

Open Until Filled

This position is responsible for the overall vision and direction of the Public Works Department as well as administrative oversight of all division's activities and programs including engineering, solid waste, support services, streets, water operations, water resources and storm/sewer; and the supervision and evaluation of performance of assigned personnel. Responsibilities include development and oversight of department goals and objectives, policies and procedures; budget development and oversight; and compliance with statutory requirements.





### **Project Engineer | City of Maysville**

*Posted: 1/22/2020*

**SALARY:** \$91,853.00 - \$115,190.00 Annually

**OPENING DATE:** 01/21/21

**CLOSING DATE:** Continuous

#### **POSITION SUMMARY:**

First Consideration: 4pm, February 4, 2021

This position performs a variety of professional engineering assignments in design, construction, or land development which requires the application of standard engineering principles and methods. The work performed by this class requires incumbents to apply professional knowledge and expertise as well as established guidelines and alternatives to make non-routine judgments and recommendations to management regarding complex issues; incumbents operate independently and select appropriate methods to accomplish project assignments. Positions in this class perform the less technically complex design projects and have a narrower scope of responsibilities than the Senior Project Engineer. This position may provide project support to the Senior Project Engineer and engineering oversight to the Engineering Technician.



### **Airport Engineer | Paine Field Airport**

*Posted: 1/22/2020*

Snohomish County Airport is seeking to hire an Airport Engineer.

Job posting will remain open until filled.

**Paine Field Airport Snohomish County** offers outstanding benefits and competitive wages, job flexibility and stability, employer paid ORCA cards, and a friendly, diverse team atmosphere where employees are appreciated and make a real difference to the citizens we provide services to. Snohomish County is thriving and is a great place to live, work, play, and raise a family. We strive to not only provide a meaningful job, but a lifelong career at Snohomish County.



### **Transportation and Development Manager | City of Richland**

*Posted: 12/18/2020*

**SALARY:** \$91,083 - \$127,546 Annually, DOQ

**OPENING DATE:** 12/18/20

**CLOSING DATE:** Continuous

#### **GENERAL SUMMARY:**

Performs difficult administrative work planning, organizing, and coordinating the activities of assigned divisions, and related work as apparent or assigned. Work is performed under the general direction of the Public Works Director. Divisional supervision is exercised over assigned personnel.

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

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

[Email communications@seattleasce.org to learn more.](mailto:communications@seattleasce.org)

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**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!

