

May 2021

ASCE SEATTLE MAY MEETING:

UNIVERSITY OF WASHINGTON &
SEATTLE UNIVERSITY
**STUDENT
PRESENTATIONS!**

JOIN US VIRTUALLY ON ZOOM
WEDNESDAY, MAY 12
5:30PM - 7:00PM



UW & SU Student Presentations

We are excited to announce the May 2021 ASCE Seattle Section meeting featuring presentations by UW and Seattle University students and recognition of our Section's newest [Life Members](#)! We are happy to showcase student presentations and celebrate life members of the section.

Please join us for a fun virtual evening with friends and colleagues! Both University of Washington and Seattle University are holding competitions for students, teams, clubs, etc. to present their work to a panel of judges. The winning team from each school will present at the section meeting, and will be awarded prizes. This gives students in the civil and environmental engineering department an opportunity to showcase their work and give all others a chance to ask questions.

Our Life Members will have an opportunity to speak about their ASCE journey, and how it enhanced their civil engineering careers, as well.

[Click Here to Register & Add to Calendar](#)

Date: Wednesday, May 12
Time: 5:30pm-7:00pm

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



May President's Column

By Special Guest, **Bobbie Gilmour, EIT, ENV SP, CDT**
ASCE Seattle Section Younger Member Forum President

Hello Seattle Section!

My name is Bobbie Gilmour and I am the Younger Member Forum (YMF) President for the Seattle Section. I am honored to be able to write this month's President's Column. While I would love to spend this opportunity talking about the YMF and all of our past upcoming activities for the year, I am going to take a moment to recognize our incredible university students.

The Seattle Section and YMF have been working closely with the ASCE Student Chapters of the [University of Washington \(UW\)](#) and [Seattle University \(SU\)](#) for many years now. Recently, we have 'adopted' the [University of British Columbia \(UBC\)](#) into our university family. Our goal with supporting these students is to provide them resources for becoming practicing engineers, networking with professionals in the industry and with other

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Younger Members
Forum

**JUNE 2021
NEWSLETTER
CONTENT DEADLINE:
May 20, 2020**

students, as well as supporting student lead programming, like resume reviews, career fairs, office tours, and professional panels.

During the weekend of April 15 to 17, our very own UW ASCE Student Chapter hosted the annual [Pacific Northwest Student Conference](#). This included the Concrete Canoe, Sustainable Solutions, and Environmental (Water Treatment) competitions as well as the Daniel W. Mead technical paper. From our Region, there were 13 colleges and over 250 students that participated throughout the weekend. Below are the results from each of the competitions!

Concrete Canoe:

- 1st place – University of Washington
- 2nd place – University of British Columbia
- 3rd place – Portland State University

Sustainable Solutions:

- 1st place – Portland State University
- 2nd place – Carroll College

Environmental (Water Treatment):

- 1st place – Portland State University
- 2nd place – University of Portland
- 3rd place – Saint Martin's University

Daniel W. Mead Paper:

- 1st place – Gonzaga University
- 2nd place – Oregon Tech
- 3rd place – University of Washington

Due to the pandemic, the competition was hosted completely online and students were not able to build and race their concrete canoes as we would have any other year. Even with all the obstacles of online meetings and social distancing, these student's presentations and papers reflected their strong dedication to their future profession, their teams, the competitions, and to ASCE.

If you have spare time, I highly encourage you to watch the competition recordings to see the amazing work our students are doing throughout Region 8! (You can click the link here to visit the [ASCE UW Student Chapter YouTube Page](#) or search for "2021 ASCE PNW Conference".) We cannot wait to see all the incredible things these students will do in the future.

I would personally like to thank the many engineers and company sponsors, ASCE members and non-members alike, that volunteered their time and resources over the last two years to make this conference happen. I know every participant (from students to judges to family members and guests) appreciates the extra time and support that was given.

Through the Section and YMF, there are many ways to support the students in our region. This could be as a Practitioner Advisor, Mentor, or through a one-time volunteer event. And while it is a year away, the 2022 Student Conference will be hosted by UBC and we hope that we can rely on your support for them as well!

If you are interested in volunteering with the university students in any way, please reach out to me at ymf@seattleasce.org. As our ASCE National President Jean-Louis Briard has emphasized this year, the future of ASCE lies in the upcoming generations and we should support our students to the best of our ability and to encourage them to continue on as ASCE members as they start their professional careers.

Thank you so much for reading about our incredible student members and have a wonderful start to May (and the warm weather that it will bring)!

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

Member Benefit: Add to Your Skills with Free, Exclusive eLearning Webinars. Enjoy member-only access to live and archived eLearning webinars to enhance your personal knowledge and career development. Topics include: • Leadership skills • Communication

[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!](#)

ASCE Seattle 2021-2022 Officers Election

The 2021 Election of the ASCE Seattle Section Board of Directors will take place between May 10 and May 28, 2021. Online ballots will be emailed to Section members on Monday, May 10. If you are a Section member and do not receive a ballot by end of day May 10, please contact Mari Otto at secretary@seattleasce.org.

The following nominees are put forth by the Nominating Committee for Section Board positions starting in October 2021:

- **Elyssa Dixon**, President-Elect
- **Peter Heller**, Secretary
- **Swapna Sridharan**, Director of Standing Committees

Nominee bios will be provided with the voting ballots.

Not an ASCE member yet? [Become a member today!](#)

Already a member? [Upgrade](#) or [renew](#) your membership!

ASCE National Leadership Election

The 2021 ASCE Leadership Election is officially open! Vote today or any time before June 1, 2021, 5:00 PM CDT at: www.asce.org/VoteNow

Voting is easy – use your ASCE username and password to login!

A benefit of ASCE membership is choosing the leadership that will guide our organization into the future – make sure your voice is heard and cast your ballot today!

Official Nominees for President-elect on this year's ballot include:

- Maria C. Lehman, P.E., ENV SP, F.ASCE
- Peter M. Moore, P.E., ENV SP, LEED AP, F.ASCE

Vote by using your ASCE username and password at: www.asce.org/VoteNow

May Committee Meetings & Events

Sustainability Committee Online Seminar **Wednesday, May 19 @ 12:00pm**

Topic: SE 2050: Net-Zero Embodied Carbon in Structures

Speaker: Chris Jeseritz, P.E., LEED AP BD+C

This presentation explains the newly launched Structural Engineers (SE) 2050 Commitment Program by the Structural Engineering Institute (SEI) of the American Society of Civil Engineers (ASCE). SE 2050 is a national program with goals of reducing the embodied carbon of structural systems to net-zero by 2050 through education, tracking of embodied carbon, and establishing reduction targets over time. Modeled after the AIA 2030 Commitment, this program is the only national embodied carbon tracking and reduction program focused on structural framing systems. Attendees will receive 1 PDH for attending this webinar. For more information and to register, [visit this link!](#)

Diversity, Equity + Inclusion Committee Meeting

Tuesday, May 18 @ 5:00pm

If you are interested in joining ASCE Seattle's DEI

EWRI Committee Meeting

Thursday, May 20 @ 12:00pm

Topic: Pilchuck River Dam Removal: A River Reconnected.

Committee or attending their monthly virtual meetings, reach out to [Diversity Chair, Joshua Shin](#).

The DEI meets regularly on the third Tuesday of every month.

Check out their highlight of Asian American Pacific Islander (AAPI) Heritage Month below!

Speaker: Brett Shattuck, Tulalip Tribes

Contact 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!



APPLICATIONS NOW OPEN FOR

**THE RICHARD
WILLIAMSON JONES
MEMORIAL SCHOLARSHIP**

**STUDENTS APPLY BY
JUNE 25, 2021**

\$2,000 FOR YOUR EDUCATION!

SEI Virtual Conference



The ASCE Structural Engineering Institute (SEI) is hosting a virtual conference in lieu of a Structure Congress this year. Structures Virtual 2021 will run from June 2nd to 4th. This online event will consist of technical content and continued learning but with the focus on global community engagement.

Advanced Registration is on May 5th, and the last day to register is May 27th.

Visit [here](http://www.structuresvirtual.org/) for more information and to register: www.structuresvirtual.org/

Join Business Writing Fundamentals at UW Course: Starts May 12

Engineering careers flourish when technical analysis is paired with crisp communication of that analysis. How to do it though? Join this CEU-approved University of Washington evening class taught by two staff members from an ASCE-firm. You'll learn how to perform audience analysis, write compelling reports and business proposals and more. You'll also hear from guest speakers outside your industry about the universal themes of great business writing.

8-week evening course starting Wednesday May 12. Please sign up here: [Business Writing: Reports, Proposals & Documents](#)

NETAP Web-Based Training: ATC-20, Postearthquake Safety Evaluation of Buildings

For joining WAsafe, Washington State's post-disaster building safety evaluation program, our preference is that ASCE members take an in-person WAsafe class. Due to the COVID-19 situation, the SEAW Disaster Preparation and Response Committee is not offering these WAsafe classes; however, there is a training alternative. For first-time enrollees, WAsafe will accept individuals who have completed ATC-20 training and, subsequently, taken the online WAsafe Concept of Operations module (and passed a quiz on the module). Proof, such as a PDH certificate, of completing the ATC-20 training is required before taking the Ops module, so ensure you get this from the trainer(s) or organization providing the training.

To this end, we are passing on notice of an online ATC-20 class. The training is free of charge.

Web event: NETAP Web-Based Training: ATC-20, *Postearthquake Safety Evaluation of Buildings*
Date & Time: Wednesday, May 5 from 9:00am – 1:00pm Pacific Time

Register here: <https://attendee.gotowebinar.com/register/5312460168264132621>

Instructor: Keith Porter, Research Professor, University of Colorado Boulder, and Principal, SPA Risk LLC

Description: This web-based training provides instruction on rapid and detailed evaluation procedures for evaluating earthquake-damaged buildings and posting them as INSPECTED (apparently safe, green placard), LIMITED ENTRY (yellow placard), or UNSAFE (red placard). The web-based training provides examples that allow attendees to evaluate building damage conditions, assess the overall risk from the damage, and recommend which of the three placards should be posted on the building.

Audience: Building officials, engineers, architects, building owners, emergency managers, risk analysts, and other interested citizens and volunteers.

PDH eligible: Yes. (Note: In the case of multiple participants watching the training on the same device, a PDH certificate will only be issued to the individual who registered for the training. Register individually if you intend to sign up for WAsafe!)

Please reach out to [Ross Brazzale](#) about WAsafe or the DPRC.

Notes: When signing up for the training to vet the registration system a confirmation email was received with links to cancel registration and to a website with the following downloadable documents:

- FEMA P-2055 Post-disaster Building Safety Evaluation Guidance (Nov 2019)
- Forms for Rapid Assessments, Detailed Assessments, and Fixed Equipment
- A PDF of the presentation slides (4-per page)

The ATC-20-1 *Field Manual* is a must for field work. It normally costs \$24 plus shipping – take advantage of the opportunity of ordering it during this class.

Stay safe,

Ross Brazzale, PE SE

Email: wasafe@seattleasce.org

Diversity, Equity + Inclusion Monthly

May

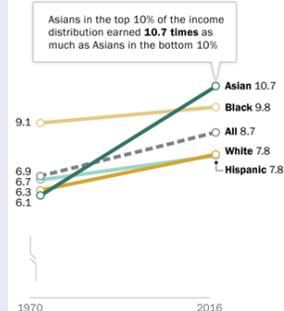
May is Asian American Pacific Islander (AAPI) Heritage Month, and the ASCE Seattle chapter would like to celebrate and acknowledge what contributions AAPI have done in our industry.



The United States endeavored to connect Iowa to California with the first transcontinental railway system. Construction spanned from 1863 to 1869, and during that time Chinese immigrants were an integral part of this railway's construction. The majority of the labor came from the flood of Chinese citizens as the shortage of labor threatened a on-time completion. It is also important to note that a significant portion of the rest of the labor force was composed of Irish workers, veterans, and members of the Church of Latter-day Saints. Read more [here](#).

From lowest to highest: Income inequality in U.S. increased most among Asians from 1970 to 2016

Ratio of income at the 90th percentile to income at the 10th percentile



Note: Whites, blacks and Asians include only non-Hispanics and are single-race only in 2016. Hispanics are of any race. Asians include Pacific Islanders. Incomes are adjusted for household size. See Methodology for details.

Source: Pew Research Center analysis of 1970 decennial census and 2016 American Community Survey (PUMS).
"Income Inequality in the U.S. is Rising Most Rapidly Among Asians"

PEW RESEARCH CENTER

Model Minority is a term that is used to describe minority groups that have achieved a high level of social-economic success in contemporary US society. The perception of an individual's success appears to not be a problem, but conflict and tension arise when the larger context is considered. First, it pits minority groups against each other and implies a superficial reason for the shortcomings of the other minorities without addressing the larger systemic reason for their lack of social-economic success. Secondly, the lack of nuance does not address the fact that Asian Americans have the highest level of income inequality in the US (according to pew research). The concept of the model minority perpetuates racist stereotypes, continues to be a damaging notion that drives a wedge in minority communities and overlooks the economical inequalities found within the "model" group.

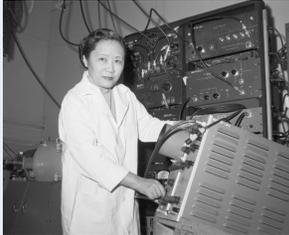
Read more [here](#) and [here](#).



TY Lin innovated the world of structural engineering within prestressed concrete. He was a faculty at Berkeley and eventually founded TY Lin International in LA, a leader in infrastructure projects.



I.M. Pei was an architect that explored beyond the Beaux-Arts style of architecture (that was common at the time) into new emerging fields. Known for his work on the John F. Kennedy Library, Dallas City Hall and Le Grand Flouvre (Louvre Pyramid), Pei's modernist designs tied classical designs with modern form.



Chieng Shiung Wu was known for the work she had done in the Manhattan Project and innovating the world of experimental physics. She helped develop the concept of Beta Decay (with the Wu experiment), leading to Nobel Prizes for Physics being awarded to her coworkers (Tsung-dao Lee and Chen Ning Yang).

If you are interested in learning more stories

[PBS' Asian Americans](#): "The history of identity, contributions, and challenges experienced by Asian Americans.

Gook: Film by Justin Chon about two Korean shopowners during the LA riots

[We Need to Talk about Asian American Hate](#): An in-depth conversation about the complex Asian American experience

If you would like to get involved with the DEI committee, please email diversity@seattleasce.org.

Professional Engineering Education Survey

Preparing students with the necessary skills for a successful transition into their professional careers is a crucial part of the undergraduate program. The following survey is being conducted by a group of researchers at Washington State University (WSU) and Virginia Tech (VT) is aimed at identifying these important skills to help improve the alignment of learning outcomes of university programs with modern engineering practice.

To assist in this research effort, the team is asking that you please complete this **10-15 minute** survey. If you choose to participate in the study, please click the link below to access the survey.

Survey Link: [Professional Engineering Education Survey](#)

Thank you for your time,

Adam Phillips
Assistant Professor
Department of Civil & Environmental Engineering, WSU
a.phillips@wsu.edu



14th Annual Cultural Resource Protection Summit on May 12-13

The 2021 Cultural Resource Protection Summit marks our 14th gathering, and as many of us still eagerly await vaccination, it will be our 2nd Virtual Summit, as well! The Summit family is still hard at work fulfilling the mission we have had since the Summit's inception: The primary goal in organizing the annual Summit has been to facilitate amongst all affected parties an open, frank discussion about the intersection between cultural resources and land use. The Summit is designed to promote collaborative cultural

resource planning as an effective means of finding resolution to issues before they escalate into emotionally-charged, divisive, and expensive stalemates or law suits.

This year, the Summit agenda includes an engaging array of cutting-edge topics that will encourage attendees to examine some of the Transformations underway, both in ourselves and in our collective groups, and how these might shape innovative solutions for today's most pressing challenges to effective cultural resource protection. Panel discussions, lightning talks, and small group discussions will highlight useful examples of the links between transformative CRM and responsible land use. We will also reserve time for Q&A, general socializing, and even the inaugural Summit Book Club! We are working hard to ensure the 14th Annual Summit will be another much-needed boost for our community, even if we must gather virtually again.

Please join us online for two days of invigorating conversation that will help you improve your technical skills while deepening your connection to why we do this work. Then, with renewed commitment, move forward with helpful tools for protecting cultural resources and transforming the way we care for them.

Registration is now Open! Visit www.theleadershipseries.info for adjusted rates and to register online

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 yfm@seattleasce.org, BobbieGilmour@kennedyjenks.com, or MackenzieCapaci@kennedyjenks.com

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 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 for more information.

Legislative Committee

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

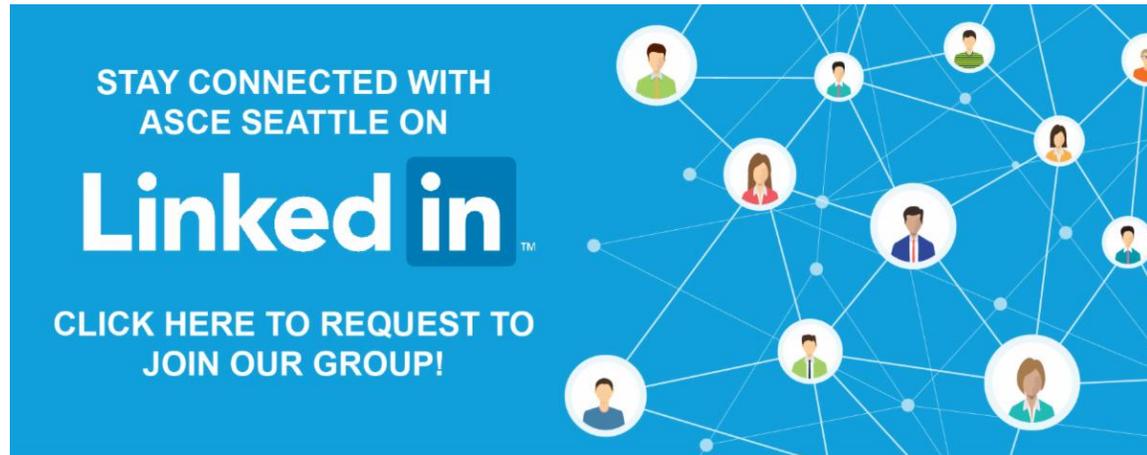
ASCE Seattle Section is searching for volunteers to assist with the Legislative Affairs Committee. The level of involvement can vary, and the tasks can include providing engineering input on current legislative issues to assisting with lobbying.

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, 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.

Mike Wongkaew joined the Committee as the new chair in April. The immediate-term plan (by the end of Spring 2021) is to regularly update our committee web page to disseminate information, re-engage our members and actively recruit members to join the committee. By the end of Summer 2021, we will re-start our monthly committee meetings, prepare and ready our committee for more proactive roles in AELC and next year's legislative session, and develop a longer-term plan for the committee to lead, engage and support our members in the political process and government relations -- all of which are critical to our profession, safety of the public, and prosperity of Washington economy.

A blue rectangular graphic with a network of white lines and circular icons containing stylized human figures. The text is white and reads: "STAY CONNECTED WITH ASCE SEATTLE ON LinkedIn™ CLICK HERE TO REQUEST TO JOIN OUR GROUP!".

STAY CONNECTED WITH
ASCE SEATTLE ON
LinkedIn™
CLICK HERE TO REQUEST TO
JOIN OUR GROUP!

ASCE Seattle Job Board

Current Job Openings:

Engineer Associate | City of Redmond

Posted: 4/13/2021

The City of Redmond is a thriving, culturally diverse community and home to over 72,000 residents. Redmond is the hub to an array of commerce and industry ranging from technology, aerospace and gaming to biomedical and innovation start-ups.

The Planning Department is responding to the growing needs of the City, consider joining our team as an Associate Engineer. The talent you bring will help us with assisting in the review of designs and plans, gathering and compiling data, tracking and coordinating projects and resolving complaints. Employees review proposals and plans for compliance with federal, state, local and City regulations and codes. These positions perform technically complex research and make decisions regarding methodologies that will be used for analysis.

The ideal candidate will have:

- Bachelor's degree in Engineering from an accredited college or university.
- Or any equivalent combination of education, experience and training that provides the required knowledge, skills, and abilities.

This full-time position will earn between \$5873 and \$7928 per month. Please apply online by April 25, 2021 via www.redmond.gov/jobs.

Dam and Well Section Manager | Washington State Dept. of Ecology

Posted: 4/9/2021

[Apply for this position online at this link.](#)

Protecting Washington State's environment for current and future generations is what we do every day at Ecology. If you want to join a highly effective, collaborative team in exciting work dedicated to safe water supply and storage, this may be the position for you.

The [Water Resources](#) program is looking for a leader to fill the **Dam and Well Section Manager (WMS Band 2)** position. The position is currently assigned to a duty station in our Headquarters Building in [Lacey, WA](#), and supervises staff also assigned to Headquarters. However, the agency is transitioning to a Modern Work Environment approach that allows telework and flexible schedules the new Section Manager will need to support and implement.

The **Dam and Well Section Manager** is responsible for both the state Dam Safety Office to assure the safety of over 1,100 dams within the state, and the state Well Construction and Licensing Office to assure health and safety aspects of well construction and decommissioning. The position reports to the Water Resources Program Manager. The position has 10 staff positions all reporting directly to the Section Manager. This includes six engineers, three environmental specialists, and one hydrogeologist.

We are looking for a candidate who enjoys working with a variety of people on an interdisciplinary team and has a passion for public service.

[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)

**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!

