

December 2018

**November Joint ASCE Seattle & Tacoma-Olympia  
Section Dinner Meeting  
Rattlesnake Ridge Landslide**

**Embassy Suites  
Churchill/Pimlico Room  
15920 W Valley HW  
Seattle, WA 98188**

**Wednesday, December 12**

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

The Rattlesnake Ridge Landslide, near Union Gap, Washington, is a 4 million cubic yard, translational slide with movement occurring along a weak, inclined sedimentary layer within a sequence of basalt bedrock. The slide was first observed in October 2017 and multiple monitoring methods confirmed south to south-westerly movement towards I-84 and the Yakima River. During November and December 2017, movement of the slide accelerated in a manner typical of a slide becoming less stable with time and trending towards "failure". In the interest of public safety, Governor Jay Inslee directed an independent technical review of the landslide that was performed by Wyllie & Norrish Rock Engineers, Inc.

\$45 (\$40 early bird) for General Admission  
\$25 (\$20 early bird) for students and free agents

Early Bird Registration ends after  
Wednesday, December 5

Registration closes  
Sunday, December 9

The presentation will summarize the initial evaluation of the slide, the January 2018 review, and the behavior and understanding of the landslide developed by the Washington State Department of Natural Resources (DNR) and the Washington State Department of Transportation (WSDOT) over the subsequent ten months.

Attendees are encouraged to preregister; there will be limited on-site registration.

[Add to Calendar](#)

[Click Here to Register](#)



## December President's Column

By Eset Alemu, PE, CFM, Seattle Section President

As the holiday season approaches, the weather and high travel volumes test the pillars of our transportation system such as road and airports and the resiliency of our cities against the inclement weather. These difficulties expose some of the shortcomings of the transportation network and connectivity of our cities as it highlights opportunities for improvement in urban planning and transportation. This challenge was the subject of ASCE's most recent infrastructure policy, focused on [Smart Cities](#), that supported the integration of technology into our transportation infrastructure systems to foster strong community connectivity, workability, and resiliency.

[Section Officers  
Contact](#)

[Newsletter Editor  
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The Seattle Section delved into the intersection of infrastructure and technology this month with the Cutting-Edge Technical Tours that came about from the partnership of ASCE National with two of the largest technology firms in the Seattle area, Microsoft and Amazon. Seattle was selected as one of three large cities in the nation to pilot a program in looking at the design of Smart Cities and exploring the use of high-tech tools in transportation and urban planning. Representatives from ASCE National and Seattle area engineers

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and planners toured Microsoft and Amazon headquarter offices and looked at innovations in energy and water use; heating and cooling of buildings; and movement of goods and employees.

The concept of Smart Cities is gaining momentum in our industry's approach to planning and designing of cities and supporting infrastructure. The design principles under the guidelines of sustainability, scalability and resilience include enhancing efficiency of energy and other utility services, streamlining transportation routes, and optimizing the performance of existing infrastructure. One of the unique aspects of Smart Cities is the integration of digital infrastructure such as sensors and innovative data management in various facets of (civil) infrastructure. These tools can be used to detect disruption in conveyance lines from pressure changes, use real-time traffic data to manage emergency services and increase integration of alternative energy sources to power buildings.

The integrated and multidisciplinary approaches to the design of Smart Cities are essential tools we can employ as we strive to design, build and operate safer, more efficient and resilient cities. It contributes to ASCE's Grand Challenge strategic initiative, which aims to significantly reduce the lifecycle costs of infrastructure; enhance the performance and value of infrastructure projects; and integrate innovative trends in technology and services to the planning and implementation of infrastructure projects.

**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!



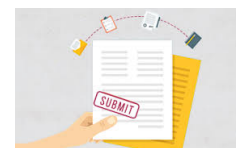
ASCE SAVE THE DATE  
AMERICAN SOCIETY OF CIVIL ENGINEERS FOR WASHINGTON STATE  
INFRASTRUCTURE REPORT CARD  
PRESS EVENT

Thursday, January 17, 2019  
10am at Seattle City Hall  
Please mark your calendars

For more info, contact us at  
[reportcard@seattleasce.org](mailto:reportcard@seattleasce.org)

## Submit Your Paper for the 2019 Daniel W. Mead Prize

The 2019 National Mead paper topic is: In 2017, ASCE added a new guiding ethics principle on Treat All Persons Fairly, [Canon 8](#). What value does this Canon add to the civil engineering profession and student chapters? For more details on this question and to submit your paper [visit the award page](#). Submission deadline is February 1, 2019.



## Region 8 Governors Open Positions

Region 8 is one of the ten geographic regions within the ASCE society and are organized to facilitate communication with ASCE Board of Direction, promote leadership development and support local Sections. Region 8 is the home of some of the most outstanding leaders from the region including, the Past President of ASCE Society, Christina Swallow. There are two positions open for Region 8 governors. If you want to apply for this position please contact [president@seattleasce.org](mailto:president@seattleasce.org)



### ASCE Seattle Sustainability Committee: Green Apple Day

In the coming months, the Sustainability Committee will be planning our annual Green Apple Day of Service, which is USGBC sponsored event where people volunteer to help schools become more green through local service projects. In the past, we have helped schools make rain barrels, worm compost bins, and teach students about how to reduce energy in their schools (see Past Projects). For questions, please contact Bethy Clark, Education Outreach, at [elizabeth.clark@hdrinc.com](mailto:elizabeth.clark@hdrinc.com)

## Puget Sound Engineering Council Engineer of the Year Award Nominations

Every year, the Puget Sound Engineering Council (PSEC), a consortium of regional professional engineering organizations, hosts an award program for distinguished engineers at an annual banquet during Engineer's Week in February. Among the societies participating in PSEC, each is allowed to make a nomination of a single engineer for an award in each of the following categories:

- Academic Engineer of the Year
- Government Engineer of the Year
- Kenneth W. Porter Award (K-12 outreach engineer)
- K-12 STEM Engineering Teacher of the Year
- Professional Engineer of the Year
- Young Engineer of the Year

During the month of December, the Seattle Section of ASCE will develop a list of nominees for these categories. If you are interested in nominating a Section member for one of these awards (self nominations included) or for more information on the program, please contact Paul Grant at [pgrant@pangeoinc.com](mailto:pgrant@pangeoinc.com) or 206-262-0370.

## Protecting State Monuments

Citizens of Washington State have invested in property boundaries and survey monuments since before Statehood. Survey monuments are not only important to delineate public and private ownership; they are critical. However, property corners and survey monuments are often endangered, and in many cases destroyed, by road and utility construction and maintenance.

**RCW 58.24.040 (8) and WAC 332-120** provide the process to protect these monuments. Professional Engineers, Land Surveyors and employees of government agencies responsible for this work, must take the lead in following the law and rules to protect these monuments. Noncompliance by Professional Engineers and Land Surveyors is considered a violation of law and may result in the Board of Registration for Professional Engineers and Land Surveyors taking disciplinary action.

Anyone performing construction or maintenance activities should consider the following:

- No survey monument shall be removed or destroyed (the physical disturbance or covering of a monument such that the survey point is no longer visible or readily accessible) before a permit is obtained from the Department of Natural Resources.
- When one or more monuments must be removed during an activity which might disturb or destroy it, a licensed Professional Engineer or Land Surveyor must complete, sign, seal and then file a permit with the Department of Natural Resources.

Each agency should adopt a monument protection plan, which follows the monument removal permit process provided in Chapter 332-120 WAC. In most cases, an agency official must be in responsible

charge of protecting monuments during the maintenance and construction activities within their jurisdiction. On behalf of the Citizens of Washington we are asking you to take appropriate action to actively protect the survey monuments in your charge.

## ASCE YMF Holiday Party!

**When:** Tuesday, December 4th, 5:00pm - 8:00pm

**Where:** Flatstick Pub, Pioneer Square

**What:** Fore! Please come join the YMF for the annual Holiday Party at Flatstick Pub in Pioneer Square from 5pm-8pm on Tuesday, December 4th. Since opening in 2016, Flatstick in Pioneer Square has not only lived up to the high expectations of its Kirkland originator, it's surpassed it with a 9 hole mini-golf course twice the size of the former, an equally challenging 9 hole duffle board course, and the consistent presence of Manu's Tacos serving authentic street tacos, guacamole, and nachos. Both Eastside and Westside YMF networking groups come together for this event and will be providing some of Manu's Mexican fare, some outside food, and Prizes!

Yes, for the Holiday Party, prizes of varying value will be aplenty. No reservations needed for this tournament - come one, come all, for this golf day where you'll (hopefully) always be able to find your ball. And greenskeepers fear not - no gophers allowed on this golf course.

All are welcome, and don't forget to bring a toy to donate for Toys For Tots, you'll not only receive an extra raffle ticket to be entered for the great giveaways, you'll be helping bring a smile to a child in need this holiday season.

## ASCE YMF December Volunteer Event: Greenlake Pathway of Lights

**When:** Saturday, December 8th, 5:00pm - 7:30pm

**Where:** Greenlake

**What:** Get into the holiday spirit with YMF as we help light up the night for the annual Greenlake Pathway of Lights, featuring over 2500 candles, music, activity booths, and hot cocoa! We will be working as Candle Re-lighters and Litter Patrol on Saturday 12/8 from 5pm - 7:30pm at Greenlake. Dress warmly and be prepared to have a jolly good time.

RSVP

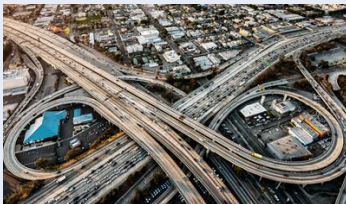


**Upcoming ASCE Seattle Events**  
Never miss a Seattle Section event, link our calendar to your Outlook today!

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.

## Current 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.

## Washington State Report Card

Call for volunteers! The WA Infrastructure Report Card is getting close to public release! Members from ASCE Seattle, Tacoma-Olympia, and Inland Empire Sections have been working tirelessly to research, assess, and summarize our great state's infrastructure in the areas of Aviation, Bridges, Dams, Drinking Water, Roads, Schools, Stormwater, Transit, and Wastewater.

Upcoming work includes outreach to the public, media, and elected officials as well as event planning for the release event in January 2019. The team is looking for volunteers to help with outreach and plan the release event in January 2019! Are you passionate about our states infrastructure and addressing the funding gap? If so, please contact Richard Fernandez ([richard.fernandez@seattle.gov](mailto:richard.fernandez@seattle.gov)) or Bobbie Gilmour ([bobbiegilmour@kennedyjenks.com](mailto:bobbiegilmour@kennedyjenks.com)).

## 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

- Supervising Engineer - City of Mill Creek
- Civil Engineer Project Manager - Davido Consulting Group

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

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