



NEWSLETTER

OCTOBER 2017 Vol. 53, No. 2

October Section Meeting

Wednesday, October 11 | 5:30pm - 8:00pm

The History of Lake Washington Ship Canal & Hiram M. Chittenden Locks

We are excited to announce the October ASCE Seattle Section meeting. Please join us for a fun evening with friends and colleagues! We are proud to introduce a new mentoring initiative. Check out the "Mentoring" area on the registration page for more information!

About the Speaker

David B. Williams is a naturalist, author, and educator whose award-winning book *Too High and Too Steep: Reshaping Seattle's Topography* explored the unprecedented engineering projects that shaped Seattle during the early part of the twentieth century. This talk is based on his most recent book, *Waterway: The Story of Seattle's Locks and Ship Canal*, co-authored with historian Jennifer Ott. David is also the author of *Seattle Walks: Discovering History and Nature in the City*.

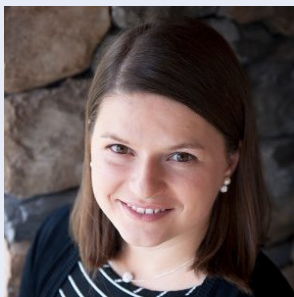
Mirabella
116 Fairview Ave N
Seattle, WA 98109

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

\$45 (\$40 early bird) for
General Admission
\$20 (\$15 early bird) for
students and free agents

Early bird rates end after
Wednesday, October 4.
Registration closes Sunday, October 8.

[Click Here to
Register](#)



October President's Column

By Diana Hasegan, PE, ENV SP, Seattle Section President

Our future is bright my fellow civil engineers! I challenge you to just visualize how much good your job brings to the people you serve.

Every day, as a civil engineer, you are the quiet hero that makes our advanced society possible. From clean waters and an environment that provides us a healthy living; roads and bridges that take us safely to work, fun and family; buildings that protect us from the elements and natural disasters; to ports and pipelines that supply us with needed commodities; you provide the secret ingredients that society wouldn't be able to live without. And while the world does not realize your true value when all goes well, it will be desperate when you don't perform.

Thirty years ago today, my mother had no idea whether I was going to be a boy or a girl because ultrasounds were not a common tool in

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**NOVEMBER 2017
NEWSLETTER
CONTENT DEADLINE:
OCTOBER 20, 2017**

medical care in communist Romania. Eleven years ago when I packed my two suitcases full of hope and left my birthland to pursue my American dream, I didn't even have a cell phone to call home in case of trouble, not to mention that Facebook was not even a thing yet. Seven years ago when I graduated, smartphones were just starting to become mainstream. Today, we are dreaming of making it to Mars, managing logistics with self-driving trucks, using quantum computers and gene therapy while everything around us is connected, on-demand, and highly automated.

With all this technological advancement we haven't changed what we are designing. We still design and build roads, bridges, buildings, tunnels, ports and water works, but the degree of complexity of what we design has increased. We have pushed the boundaries of what is possible, new materials have emerged, we have learned to use resources more wisely and have learned from our mistakes. Today, you can view your plans on your mobile device, make entries into your basemap live while you are visiting your job site, collaborate virtually with anyone around the world, build 3D models of your project so you can visualize interconnected elements, model intricate systems, and analyze thousands of failure scenarios. As a profession, we have adapted the tools we design with, the reasons we design certain works, and vastly increased our knowledge of science.

The pressures from natural disasters, energy and resource shortages, political turmoils, climate change are just mere science problems we will innovate and engineer beyond. It is in within our reach to impact the future of our society by building smart, resilient and environmentally sound infrastructure. What we design today, will determine the future for the next 50, 75 and 100 years. So I challenge you to be the best at what you do, help your colleagues achieve their best in their careers and inspire others to pursue our profession. Join me in challenging our profession to keep up with the pace of innovation and build resilient infrastructure. Join me to inspire young generations to pursue our profession and students to stay engaged after they graduate. Join me in serving our communities to improve the well-being and advancement of society.

Our future is bright because of you! Your passion, your determination, and your relentless pursuit for enhancing the quality of life in the communities you work in, make you my heroes! I look forward to working with you all this year. My door is always open to your ideas and engagement, so don't hesitate to reach out!



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**EVENT PHOTOS, SECTION
NEWS, UPDATES - JOIN THE
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Legislative Update

Washington State Report Card - Volunteers Needed

We are gaining momentum in updating the report card.

Volunteers are developing a project management plan for the card. Please email questions or comments to Erik Ellingsen at erik.ellingsen@hartcrowser.com. Previous work by ASCE members to develop the first report card and two recent example cards (storm water and the electrical grid) have been uploaded to [Collaborate](#) and Google Drive.

Proposed Electrical Resilience Law

Feedback from our stakeholders with the Department of Emergency Management yielded constructive feedback and introductions to people who can help further the concept of electrical resilience in Washington State for a variety of public infrastructure services where improvement can be created for response after a major emergency. The Department of Commerce is looking into options for staff training, micro-grid sizes and system installation locations, and long term funding options. The purpose of a tiered approach for micro grid sizes is that it will aid in implementation of helpful systems in a chronically underfunded area of public work.

Three forms of funding have been proposed: revenue from the sale of power, small tax on regular electrical services, some other small tax on public services like road usage, grants from entities like the Sustainable Markets Foundation, the Rockefeller Foundation. The event that is most important to stakeholders so far is the Cascadian Subduction Zone event. The draft law as published in the September newsletter will be modified with language that includes both a "Study Law" focus to try and get funding for more research, and a tiered set of micro grid sizes, and inclusion of a strategic installation plan map, a list of public systems in a hierarchy based on what's been learned in recent hurricane aftermath. More updates will be provided in the November newsletter.

University Mentor Night Help Needed



If you are interested in being a mentor for a night for college students, the Puget Sound Engineering Council (PSEC) needs your help! The purpose of the mentor night activity has been to bring as many practicing engineers together with as many students as possible. We are trying to inspire the students, most of whom are freshmen and sophomores as well as high school seniors, toward a career in engineering. The mentor night allows engineers to relay their experience in the profession and answer questions posed by students. The events offer an open forum where the students visit various tables and converse with the mentors. The mentors are asked to bring sample of their work, such as reports, drawings, models, that will fit on a 30"X30" table top for discussion with the students. In the past, some of the events have included over 40 mentors in 17 disciplines.

Annually, events are typically held at the following schools:

- **Seattle Pacific University** – October 24th, 2016, 6:00 to 8:00 pm
- **Seattle Central College** - January
- **North Seattle College** – March
- **Highline College** – April
- **Bellevue College** – May
- **Shoreline College** - May

If you are interested in participating in any of these events and being included on the Section's Roster

State Public Affairs Grant (SPAG) Program



Many ASCE Sections undertake media relations and government relations outreach projects at the state and local level, and the State Public Affairs Grants (SPAG) Program is here to help.

The State Public Affairs Grant program offers merit-based awards for innovative projects that leverage the existing efforts of the Section/Branch. SPAG was created in 1997 as a resource to help ASCE Sections and Branches undertake public affairs and government relations advocacy projects at the state and local level.

Through SPAG funding, the opportunities for innovation are boundless. SPAG has helped Sections and Branches develop projects that make a difference within the civil engineering community. SPAG is a great resource for Sections and Branches looking to expand their existing efforts, and support civil engineers as leaders and experts on America's vital infrastructure systems. Funding priority is given to new proposals that best support the government relations and public affairs goals of the Society and have a measurable impact on a desired audience.

KEY DATES

- Applications are due by **November 1, 2017**.
- Sections and Branches will be notified of their proposal's status by **December 14, 2017** via email to the Section/Branch president and treasurer.
- Projects should be completed no later than **July 31, 2018**.
- Final Reports are due by **August 3, 2018**.

[Apply Here](#)

Thank you for your support

**Sign Up
Here**

ASCE Membership Renewal Drawing

Renew your 2018 ASCE membership early and earn chances to win one of 4 prizes, including the grand prize worth \$1,000!



The earlier you renew your Society-level membership, the more chances you have to win. You will be entered in all applicable prize drawings that follow your renewal date.

- Renew by **October 17, 2017** for a chance to win a \$250 Amazon.com Gift Card (U.S. members), or a free year of ASCE membership (international members)
- Renew by **November 14, 2017** for a chance to win a \$100 Amazon.com Gift Card (U.S. members), or a free year of ASCE membership (international members)

Renew by **December 12, 2017** for a chance in the grand prize drawing for a \$1,000 Amazon.com Gift Card (U.S. members), or a free year of ASCE membership (international members)!

When you join ASCE, you become part of the largest professional civil engineering network in the world. As a part of our community, you have access to our industry's most comprehensive communication, networking, and learning resources.

As an ASCE member, you have access to a wealth of benefits that serve you throughout your career.

Learn more about the benefits of membership here: <http://www.asce.org/member-benefits/>

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206.264.2784 | info@exptechnical.com

The advertisement features a tree diagram with "IT" at the base. The branches are labeled with various IT services: DESIGN, CLIENTS, BUILD, MODELING, PROJECT MGMT., REMOTE ACCESS, BIM, VIRTUALIZATION, STORAGE, SECURITY, and CLOUD STRATEGY. The logo for expTechnical, Custom IT Solutions & Support, is in the bottom right corner.

Upcoming ASCE Seattle Events

YMF 2nd Annual Executive Forum

When: October 12, 5:30 - 9:00 PM

Where: Seattle University, Casey Commons, 5th Floor

Schedule:

5:30 - 6:30 p.m. - Networking Reception

6:30 - 8:00 p.m. Panel Discussion

What: The Executive Forum is an annual event

Sustainability Committee Meeting

When: November 1, 5:30 - 7:00 PM

Where: Elysian Brewing, 1516 2nd Ave, Seattle, WA 98101

What: Please join us for our next ASCE Seattle Sustainability Committee meeting at Elysian Brewing in Downtown Seattle! We will be covering a variety of topics, including: Green Apple Day,

sponsored by the Seattle ASCE Younger Member Forum that provides young engineers and students with an opportunity to meet prominent individuals holding leadership positions in private consulting firms, public agencies, construction companies, and minority and women-owned businesses in the Seattle area.

At the Executive Forum, a group of panelists discuss their career paths and experiences, provide insight into future developments in the civil engineering field, and offer inspiring advice to young engineers. Attendees will also have an opportunity to ask questions of the panelists and network with engineers from other companies.

ASCE presentation on Envision implementation, committee budget, updates to the committee webpage and social media, recruitment, and other committee activities.

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Meet a Board Member

Diana Hasegan | President

Born in Romania, Diana came to the US about 11 years ago to pursue her dream of studying civil engineering in a country that invented the skyscrapers. During college she realized that she liked chemistry and physics more than she liked advanced structural analysis, and therefore pursued a specialty in Environmental Engineering. She graduated with Summa cum Laude and with Honors from Lafayette College in Easton, Pennsylvania. She holds a B.S. in Civil and Environmental Engineering and a B.A. in Economics and Business.

In her first civil engineering job she worked to clean-up large Superfund sites around Philadelphia. Almost 6 years ago, she moved to the beautiful Pacific Northwest where ASCE helped her develop her network and provided her with endless leadership opportunities. Today, she works as a Project Manager at Osborn Consulting, helping design surface water solutions for cities, counties and ports. Diana also holds a Master of Science in Civil Engineering from University of Washington with an emphasis on Engineered Systems in Water Quality.

In her spare time, Diana loves to compete in tennis tournaments and team tennis in USTA recreational leagues. Her proudest achievement is conquering the USTA National Championship with her 3.5 Women team in October 2016. She balances the high-impact and intensity of tennis with yoga, reading, cooking and brewing beer. Diana is also an avid world traveler. Her most recent international trip took her to Japan in the spring of 2017 to catch the Cherry Blossom festival and taste many types of ramen.



Rebuilding Together - 2017

On Saturday, April 29, ASCE volunteers donated their time and skills to the 27th Annual Spring Rebuilding Day. Rebuilding Together Seattle had nearly 800 volunteers that were able to help restore 22 family homes in the Burien-Shoreline area.

This year, our team was tasked with two houses, which were located on the same street. The homeowners, Dorothy Fort and Mildred Hoskins, have both lived on this same street for nearly 50 years and needed help upgrading safety features around their homes, as well as many other projects. Our 30 volunteers were able to tackle jobs, such as cleaning gutters, power washing siding, landscaping, electrical repairs, plumbing, repairing/painting walls and trim, constructing a ramp, and repairing water-damaged flooring. Many appliances were repaired or replaced, and their homes were outfitted with new fire extinguishers and smoke alarms. Many of our volunteers even stayed later into the evening to make sure all of these projects were completed. With double the workload, this year was especially challenging. Thanks to all of the volunteers we were able to make a big difference in the lives of two Seattle families.



Current Job Openings

- Design Engineer - **LOCHNER**
- Transportation Design Team (Three Positions) - **SCJ Alliance**
- Senior Engineer: Development Engineering - **Whatcom County Public Works**
- Dam Safety Engineer (Environmental Engineer 2) (In-Training) - **WA Dept. of Ecology**
- Senior Geotechnical Engineer - **Adapt**

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

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