Columbia Section Monthly Zoom Meeting

Please join us on Wednesday, May 25th from 12:00pm to 1:00pm for our monthly Zoom meeting where we will hear Nathan Ikehara: "Dealing with Algal Blooms: Time to Make a Plan"

Hope you can join us!

Date/Time: Wednesday, May 25th, 2022
12:00pm—1:00pm
Place: ZOOM meeting room

Visit us on Facebook!
Fellow ASCE Members and friends,

This year is coming to an end and I would like to ask those who are interested in participating in ASCE and serving as a board member to complete the survey monkey link below.

https://www.surveymonkey.com/r/8JMM9FM

This year is not over yet, we still have one more presentation on May 25th by Nathan Ikehara from DOH "Dealing with Algae Blooms: Time to Make a Plan". We are also planning to host an in-person end of the year event on June 22nd with more information to follow.

Nathan Ikehara is currently a regional engineer for the Washington State Department of Health, Office of Drinking Water. He works with public water systems in five counties in Eastern Washington seeking to deliver safe, reliable drinking water to their customers. Nathan has been with the Office of Drinking Water since 2015 and benefitted from working with the many talented engineers around the state through his previous position in the Office’s Engineering and Technical Services Section. Prior to working for the State he studied civil engineering at Gonzaga University after serving in the US Army as a critical care nurse at Tripler Army Medical Center in Honolulu, Hawaii.

In August of 2020, the Washington State Department of Health released DOH Publication 331-654 “Dealing with Algal Blooms: Time to Make a Plan”. In the year plus that followed, we have had ample opportunity to test the limits of that guidance. Those experiences have taught us about our strengths and weaknesses in this area. As a result, the guidance is now actively in its first revision as we seek to improve both our knowledge and the guidance we provide to water systems about cyanobacteria, how to treat it, and why.

Margarita Kalieva

Columbia Section President 2021-2022
ASCE May Monthly Spotlight

Engineers reveal how to optimize processes for transforming sulfur in wastewater to valuable materials

Promising technologies for converting wastewater into drinkable water produce a chemical compound that can be toxic, corrosive and malodorous. An analysis of one possible solution reveals ways to optimize it for maximum energy efficiency, pollutant removal and resource recovery. 

Read more in Science Daily

Kiewit, Skanska Among Firms Vying for $250M Washington State DOT Project

Seven design-build teams including Kiewit and Skanska are pursuing a Washington State Dept. of Transportation (WSDOT) project to build an interstate highway interchange and bus station with a value officials have estimated between $200 million and $250 million. State officials say they will narrow the field to a short list by May 27. The plans call for the replacement of the existing two-level cloverleaf interchange at I-405 and Northeast 85th Street in Kirkland, Wash., which sits across Lake Washington from northern Seattle. In its place, WSDOT wants a three-level interchange that enhances multimodal access, including a new bus station with direct access ramps, bike and pedestrian routes and a passenger pickup and drop-off location.

Read more in ENR.

I-405/NE 85th Street Interchange

Project Description:
- Construct a three-level interchange with inline BRT station, direct access ramps to ETLs, and local roadway improvements
- Fully funded by Sound Transit

Level 3 (Top)
- I-405 mainline

Level 2 (Middle)
- Transit station and access to ETLs

Level 1 (Bottom)
- Through traffic on NE 85th Street and access to/from I-405 general purpose lanes

Local bus stops
- Same level as BRT stops

BRT stations
- Below I-405 level, no vertical transfer required to 89th

Pedestrian walkways
- Maximum 5% grade, no switchbacks
Join us! Civil, Structural engineering positions open

The Team
Bechtel is a global engineering, construction and project management company that has "built the world" for more than 120 years, having constructed Hoover Dam, the English Channel Tunnel, entire cities in the Middle East, the second-largest solar thermal power project in the world, and millions of miles of roads and pipelines.

Join us as we make history at the Hanford Vit Plant, known as the Waste Treatment and Immobilization Plant. We are designing and building one-of-a-kind facilities that will turn radioactive and chemical waste left over from World War II and Cold War plutonium production into a form safe for disposal. Your efforts will help protect the nearby Columbia River and the communities, salmon, and wildlife along its shorelines.

The Opportunity
Come join a dynamic team that is designing and constructing the High-Level Waste Facility. We will use a process called vitrification to transform the highest level of radioactive waste at the Department of Energy's Hanford Site. The facility will feature black cells, shielded pipes, high temperature melters, remote handling systems, and equipment to treat exhaust. This highly complex project requires a strong team of engineers who are motivated by technical challenges and want to make a difference.

We offer the option of full remote work or relocation with hybrid work if the candidate reports in person two to three days each week. Preference will be discussed during the interview process.

Structural engineer:
The structural engineers joining our team will create and check structural engineering deliverables, such as steel and concrete calculations, specifications and material requisitions, for a High-Level Waste Facility. They will review and coordinate technical documents across engineering disciplines, procurement and construction. The successful candidate will participate in technical meetings and prepare technical reports related to specific design issues. View the full position description and qualifications at https://jobs.bechtel.com/job/Richland-Structural-Engineer-WA-99352/875517900/.

Senior Structural Engineer (two positions):
The senior structural engineers will manage specific project activities, act as a mentor or coach for more junior engineers and designers, and lead or participate in technical discussions with clients, vendors and others. They will create and check complex structural engineering deliverables; review and coordinate technical documents from other teams; prepare technical reviews related to specific design issues; and disposition field change requests and nonconformance reports. Two positions are open with different minimum levels of experience.

- Minimum 9 years of experience:
  https://jobs.bechtel.com/job/Richland-Senior-Structural-Engineer-WA-99352/878957300/

- Minimum 6 years of experience:
  https://jobs.bechtel.com/job/Richland-Senior-Structural-Engineer-WA-99352/878955400/

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About Richland, WA
Sitting at the confluence of the Columbia, Snake and Yakima rivers near two mountain ranges, our community provides access to year-round outdoor recreation, 300 days of sun a year, more than 200 wineries within a 50-mile radius, and the amenities of large cities just a three-hour drive (or short flight) to Seattle and Portland.