

Attendee Notebook



RE:imagine
2021 OSBEELS Symposium

OSBEELS 2021 Symposium
September 23 & 24 / 8:30am-4:00pm

Contents

- 2 Event Summary and Expectations
- 3 Best Practices
- 4 Schedule
- 5 Presentation Synopses
- 11 Webinar Interface

Important Information & Tips

- Sign into the Zoom account you registered under.
- After registering, you should have received a confirmation email from Zoom on behalf of the OSBEELS. Follow the link within your confirmation email to join the virtual conference this week.
- Internet connection: power down any devices not in use, close any applications or browser windows not in use, make sure your device is plugged in for best audio and video quality.
- Visit <https://zoom.us/test> to test out your set up to ensure no network or technical issues exist.
- During the Symposium, the fastest way to contact OSBEELS is to text us: 971-600-8172 or 971-701-1844

Attendee Notebook

Event Summary and Expectations

After months of preparation and planning, the 2021 Symposium is here! This notebook was developed to provide you with all the necessary information and tips in one place as you prepare to join us for the 2-day virtual event. Within this digital notebook you'll find:

- Basic event details
- Daily schedule
- Best practices for attending a virtual event
- Tutorials on the Zoom webinar platform

Breakdown of participants at the 2021 OSBEELS Symposium:

Host: OSBEELS, we will coordinate beginning and end of day periods, as well as transitions between presenters

Attendee: YOU Registered individuals who will be tuning into the event

- As an attendee, you will only be able to tune into the virtual conference and not be able to share video or audio.
- Attendees are able to post questions and participate in polls during the conference and presentations.

Presenter/Panelist:

- When presenting, “speakers/panelists” will have the ability to share their audio and video with attendees.

If at any point during the conference you are experiencing technical difficulties or have questions please reach out to the OSBEELS event staff who will be available throughout the day.

Details regarding the structure of the live, virtual presentation:

- Presenters will be allotted 60 minutes to present and answer questions.
- As attendees, you will only be able to tune-into the broadcast. You will not have audio or video capabilities unless granted by the OSBEELS event hosts.
- Attendees will be able to chat and propose questions for the Q&A session, as well as “up-vote” favorited questions.
- OSBEELS event staff will monitor audience questions and pull the top 2-3 to share at the end with presenters during the Q&A session.
- OSBEELS event staff will be monitoring the chat log throughout the day and responding to any questions as soon as possible.


Attendee Notebook

Best Practices

- When using equipment or working from a location not regularly used, test your internet and webinar connections in advance. If possible, establish video and audio connections prior to your virtual session to test quality.
- Visit <https://zoom.us/test> to test out your set up to ensure no network or technical issues exist.
- If connecting from a laptop, plug in the power cord. Battery use can adversely affect video quality.
- If you and other colleagues are tuning into the event through one feedback, make sure all individuals who are participating are registered in order for us to accurately track their attendance and to assist with providing PDH certificates following the event.
- It is also best to inform the OSBEELS event staff ahead of the event if you and other registered attendees are watching from one feed so we may mark all who are viewing the virtual conference are marked as in attendance.

Many individuals may have previously participated on a teleconferencing meeting on the Zoom platform, and for some this may be their first time. We'd like to note there are small differences between the Zoom Meeting and the Zoom Webinar platforms. If interested we encourage attendees to visit the Zoom blog and learn about the experience they can expect as an "attendee" on the Zoom Webinar platform. Learn more here: <https://support.zoom.us/hc/en-us/articles/115004954946>

Webinar Registration Approved

Topic My Webinar
Time Sep 11, 2018 10:00 AM in Pacific Time (US and Canada)
 Add to calendar ▾
Webinar ID 319-833-382



To Join the Webinar

Join from a PC, Mac, iPad, iPhone or Android device:

Please click this URL to join. https://success.zoom.us/jw/319833382?tk=QmVju44sn4BvDesYH_a1KqAOLurYUwniYSss8gtpOk.DQEAAAAAEx8FjnZyTkd0ZUxyCfRfS2Q3UVIMZ1VOMEdnAA

Attendee Notebook

Schedule

Time	Thursday September 23
08:30 - 09:00 a.m.	Welcome & Intro
09:00 - 10:00 a.m.	Hayward Field - A Transformative Structure Brian Dickson, PE / Magnusson Klemencic Associates
10:00 - 11:00 a.m.	Hillsboro's Microhydropower Energy Project Eric Hielema, PE / City of Hillsboro - Gregg Semler / InPipe Energy
11:00 - 12:00 p.m.	Cadastral Surveying Program & the Implementation of the Western Oregon Tribal Fairness Act Mary Hartel / US Bureau of Land Management, Oregon State Office
12:00 - 12:30 p.m.	Lunch Break
12:30 - 01:30 p.m.	SoFi Stadium and Hollywood Park: Above- and Below-Ground Wonders Deering Volkman, PE-CA, QSD, LLED AP / DEA, Inc. - Rick Garcia, PE-CA / DEA Inc. - Jose Cruz, PE-CA / DEA Inc.
01:30 - 02:30 p.m.	Surveying, "A Great Public Calamity?" Leonard Rydell, PE, PLS, CWRE
02:30 - 03:30 p.m.	The Structural Evolution of North Salem High School Travis Smith, SE / KPFF
03:30 - 04:00 p.m.	Closing Remarks
Time	Friday September 24
08:30 - 09:00 a.m.	Welcome & Intro
09:00 - 10:00 a.m.	Astoria Waterfront Bridges Replacement Project Cindy Moore, PE / City of Astoria - Jeff Parker, PE / DOWL - James Stupfel, DOWL
10:00 - 11:00 a.m.	Districts Projects and the Corps of Engineers' National Landscape Mike Turaski, Matt Hanson, Salina Hart, Kellen Shide / US Army Corps of Engineers
11:00 - 12:00 p.m.	PDX Next: How to Expand and Improve Operating Airport Brian Freeman, PE, LEED AP / Port of Portland
12:00 - 12:30 p.m.	Lunch Break
12:30 - 01:30 p.m.	Developing Master Planned Communities Li Alligood, AICP, LEED AP / OTAK - Mike Spelts, PLS / OTAK - Laura Standridge, PE / Standridge Inc. - Mark Mayer, PLS / City of Beaverton
01:30 - 02:30 p.m.	Engineering Behind Failure Analysis Mark Lisin, PE / Lisin Metallurgical Service, LLC
02:30 - 03:30 p.m.	Fish Passage and Aquatic Habitat Reconnection Melanie Klym, RG, PE, ENV SP / GeoEngineers, Inc.
03:30 - 04:00 p.m.	Closing Remarks

Presentation Synopses

Hayward Field – A Transformational Structure

Presented By: Brian Dickson, PE (Magnusson Klemencic Associates)

The University of Oregon's new Hayward field has set a very high bar for collegiate and international track and field venues. The new 13,000 seat iconic track and field complex was a complete replacement of its renowned stadium. The new stadium was deployed with the notion of it being "a theater for track and field", while portraying a sense of movement and motion in its design, and providing a world class complex for athletes to train and compete. The stadium design provides homage to Oregon's timber industry with the notion that "Oregon is wood and wood is Oregon" through the select integration of exposed timber. The presentation will offer insight into the unique structural design attributes including the design of its translucent and wood clad canopy, its generous seating bowl, a free-standing and iconic observation tower, and its expressive concrete and steel form. Foundation, wind, seismic, and fan-induced dynamics structural challenges and design solutions will be presented.

Hillsboro Microhydropower Energy Project

Presented By: Eric Hielema, PE (City of Hillsboro) and Gregg Semler (InPipe Energy) and Kyle Petrocine (Energy Trust of Oregon)

Eric Hielema, Engineering Manager at the City of Hillsboro Water Department, Gregg Semler, President of InPipe Energy, and Kyle Petrocine, Senior Project Manager from Energy Trust of Oregon will share the results from a pilot installation of Oregon-based InPipe Energy's first-of-its-kind In-PRV pressure recovery valve, delivered as a stand-alone product in the water distribution system at the City of Hillsboro, OR. The In-PRV is an end to end digitally enabled product that converts running water to electricity in existing and new pressurized water pipelines. The In-PRV accurately controls pressure but instead of wasting energy it produces a consistent, predictable, and reliable source of renewable energy and revenue leveraging existing water pipeline infrastructure without effecting operations.

Presentation Synopses

Cadastral Surveying Program & the Implementation of the Western Oregon Tribal Fairness Act

Presented By: Mary Hartel (US Bureau of Land Management)

On January 8, 2018, the Western Oregon Tribal Fairness Act (Public Law 115-103) was signed into law. This law directed the BLM to transfer approximately 32,000 acres of BLM-administered lands in western Oregon to the Confederated Tribes of the Coos, Lower Umpqua, and Siuslaw Indians and the Cow Creek Band of Umpqua Tribe of Indians.

In addition to transferring these lands, to be held in trust on the behalf of the Tribes, the law also required the BLM to identify and convert approximately 32,000 acres of public domain lands to be managed under the Oregon and California Lands Act of 1937.

This presentation will highlight the Bureau of Land Management, Oregon Cadastral Survey programs support in legislative development, evaluation of legal land description for the implementation of the act, and the preparation of legal descriptions and maps for filing with Congress.

SoFi Stadium and Hollywood Park: Above- and Below-Ground Wonders

Presented By: Deering Volkman, PE-CA (DEA Inc.) Jose Cruz, PE-CA (DEA Inc.), and Rick Garcia PE-CA (DEA Inc.)

SoFi Stadium is home to two NFL teams, the Los Angeles Rams and the Los Angeles Chargers. The 3.1 million square-foot landmark is an engineering marvel interweaving innovative solutions to establish numerous industry firsts.

The stadium is just 500 yards from an active seismic fault and on the flight path to LAX airport 3 miles away driving the playing field 100 FT below ground. A record-breaking 100-FT tall MSE wall creates a moat around the entire stadium, giving it room to safely move during a seismic event. SoFi Stadium's semi-transparent roof canopy rests on a massive asymmetric steel compression ring that is supported atop a system of concrete columns outside the MSE wall. The canopy columns are supported on a complex soil-isolated foundation system extending outwardly from the stadium, in some locations extending under the adjacent public roads.

Considered separate from the stadium yet nestled under a portion of the stadium's roof canopy, is a 6,000-seat performance venue. Surrounding a part of the stadium development is a master-planned community, which will include 2,500 residential units and 25-acres of public parks, and open space in the future. Parts of the remaining area have been set aside for retail, office, and residential components, along with a 6-acre lake amenity.

Attendee Notebook

Presentation Synopses

Surveying, “A Great Public Calamity?”

Presented By: Leonard Russell, PE, PLS, CWRE

Judge Cooley of Michigan stated that, “...the visitation of the surveyor might well be set down as a great public calamity.” Leonard Rydell will explore the “public calamities” that he experienced in his 53 years of engineering and surveying experience during a time of major advances in technology and changes in licensing and recording standards. The session will be orientated towards surveyors who establish property boundaries and the engineers that rely on them. The session will cover several examples Leonard has encountered over the years, the problem solving process used (or not used) in determining them, and the unrecognized consequences of following them. Filing a record of survey does not always solve the boundary location. Pulling from his insights as a dual-registrant, this session will examine the importance of land surveyors and engineers working together and the impact their decisions can have on the common good of our society.

The Structural Evolution of North Salem High School

Presented By: Travis Smith, SE (KPFF)

The Structural Evolution of North Salem High School will discuss how the school building has developed over its 85-year history into what it is today. The presentation discusses the history of the school and focuses on the recent addition that was part of the 2018 Salem-Keizer School District Bond. The discussion on the recent addition and renovation will be on the structural components of the addition and the challenges that were faced during design and construction.

Attendee Notebook

Presentation Synopses

Astoria Waterfront Bridges Replacement Project

Presented By: Cindy Moore, PE (City of Astoria) and Jeff Parker, PE (Dowl), and James Stupfel (Dowl)

The City of Astoria is the site of America's oldest settlement west of the Rocky Mountains. The City was founded in 1811 and its historic working waterfront originally featured many canneries used to package and ship an abundant fishery harvest. Astoria is a rare western continental United States town that existed prior to the completion of a railroad to its town site and its elevated streets and associated street right-of-way extend into the Columbia River on bridges, which are integrated into the adjacent pile supported waterfront piers. In 1898, a railroad was completed along the waterfront creating an intersection with each City Street.

Today, the canneries are not as numerous, and trucks now haul freight to and from the piers. The railroad trestle is now used as a Riverfront Trail and supports the Astoria Waterfront Trolley, a popular tourist attraction. The new bridges are quintessential America Disability Act (ADA) compliant, multimodal transportation facilities supporting pedestrians, bicyclists, vehicles, and rail users. In addition, they are critical to support the vibrant waterfront economy of Astoria.

Districts Projects and the Corps of Engineers' National Landscape

Presented By: Mike Turaski (US Army Corps of Engineers)

The U.S. Army Corps of Engineers delivers vital engineering solutions, in collaboration with our partners, to secure our Nation, energize our economy, and reduce disaster risk. Covering most of Oregon and southwestern Washington, the Corps' Portland District fulfills a range of civil works missions: managing flood risk along the lower Columbia River and in the Willamette, Rogue, and Cowlitz River basins; maintaining navigation channels, locks, and coastal jetties; leading the Nation in hydropower generation; restoring aquatic ecosystems; and stewarding shorelines and recreation facilities. For each of these, the District balances various considerations to sustainably manage finite water resources. A diverse team of engineers, scientists, skilled trades, and other professionals accomplish this work, in concert with partners at local, state, federal, and tribal agencies as well as contractors and architecture-engineering firms. This presentation will provide an overview of the Corps and the various missions of Portland District, and illustrate the breadth and depth of the Corps' involvement in water resource management by highlighting four examples: water management in the Willamette Valley, flood risk management near Mount St. Helens, maintenance of aging navigation infrastructure, and modernization of a large hydroelectric powerhouse.

Attendee Notebook

Presentation Synopses

PDX Next: How to Expand and Improve Operating Airport

Presented By: Brian Freeman, PE, LEED (Port of Portland)

The Portland International Airport (locally referred to by its FAA call sign of PDX) is in the middle of a \$2 billion dollar capital improvement program. The program that is PDX Next is the newest chapter of PDX's growth and expansion to meet the needs of Oregon and Southwest Washington travelers of today and tomorrow. The most complex project in the program is the expansion of the terminal core (TCore) itself. TCore will expand the lobby and ticketing area to almost double the current size. This leads to the question: *How do you expand the existing footprint of a major airport while the continuing to operate airport?* The Port of Portland and our project team have prepared an engineered plan to meet this challenge. This presentation will show the highlights of the plan and some current conditions.

Developing Master Planned Communities

Presented By: Li Alligood, LEED AP (OTAK), Mike Spelts, PLS (OTAK), Laura Standridge, PE (Standridge), and Mark Mayer, PLS (City of Beaverton)

Development in urban expansion areas presents a unique set of challenges. The panel will provide an overview of the creative approaches taken to meet client and jurisdictional needs in the South Cooper Mountain area of Beaverton, as well as lessons learned. We will look at the steps taken to develop a master planned community in the South Cooper Mountain area of Beaverton from initial survey work, through project design, to the recording of the final subdivision plat. This "Lolich Farms" single family lot type subdivision was initially platted into large 1 to 12 acre lots as "Ridge at South Cooper Mountain". After this "large lot" plat was recorded the project was sold, transferred to a new surveyor and engineer who completed final design and the second "traditional" plat. This handoff presented unique challenges and opportunities.

Li Alligood, AICP, LEED AP with Otak will discuss the land use planning approach and purposes from pre-application meeting through preliminary design.

Mike Spelts, PLS performed the early survey work for the project and prepared the large lot plat. He will discuss the scope and challenges of the mapping and platting tasks done by Otak.

Laura Standridge, PE with Standridge Inc. took over the Civil Engineering of the project during permitting, construction and final platting and will discuss the permitting and closeout challenges.

Mark Mayer, PLS, currently the City Surveyor for Beaverton was working with Standridge Inc. at the time, and prepared the final subdivision plat and will discuss that process.

Presentation Synopses

Engineering Behind Failure Analysis

Presented By: Mark Lisin, PE

Nothing lasts forever, but we at least hope to achieve the designed life expectancy. When things break prematurely, failure analysts get involved. Whether it is a fractured bolt(s), corroded medical implant, contaminated manufacturing equipment, rusted pipes, or fractured subsea components, failure analysis acts in a forensic capacity to help identify the most likely causes that contributed to failure. Where others see broken debris, the failure analyst sees clues that describe the failure mode. While not always possible to pinpoint an assignable cause, a properly conducted failure analysis can always provide the client with more information than they previously knew, and can likely guide future iterations of component design to prolong service life.

Fish Passage and Aquatic Habitat Reconnection

Presented By: Melanie C. Klym, PE (GeoEngineers, Inc.)

Recovery of aquatic species, including threatened and endangered salmonid species, is often limited by accessibility to suitable habitats. The habitat and access needs vary by species and life stage and most existing roadway crossings (designed for flow conveyance only) are potential barriers to aquatic organism passage. Irrigation intakes and associated push-up dams can also become barriers to aquatic organisms. Habitat connectivity also includes lateral habitats, such as floodplain wetlands, that are often disconnected by levees and stream channelization. GeoEngineers has been working with tribal, state and local partners to remove fish passage barriers and reconnect aquatic habitats throughout the Pacific Northwest. This session will showcase a recently completed design-build fish passage project in Mason County, Washington and a habitat reconnection project currently in design in Umatilla County, Oregon. I will share the design context, goals, approaches and outcomes for these projects and share lessons learned from these multidisciplinary projects.

Attendee Notebook

Webinar Interface

When using the link provided by your OSBEELS host via email, you will be directly added into the webinar.

Hi Eren Yaeger,

Thank you for registering for "My Webinar".

Please submit any questions to: kevin.hoang@zoom.us

Date Time: Sep 11, 2018 10:00 AM Pacific Time (US and Canada)

Join from a PC, Mac, iPad, iPhone or Android device:

Please click this URL to join: <https://success.zoom.us>

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International numbers available: <https://zoom.us/j/319833382>

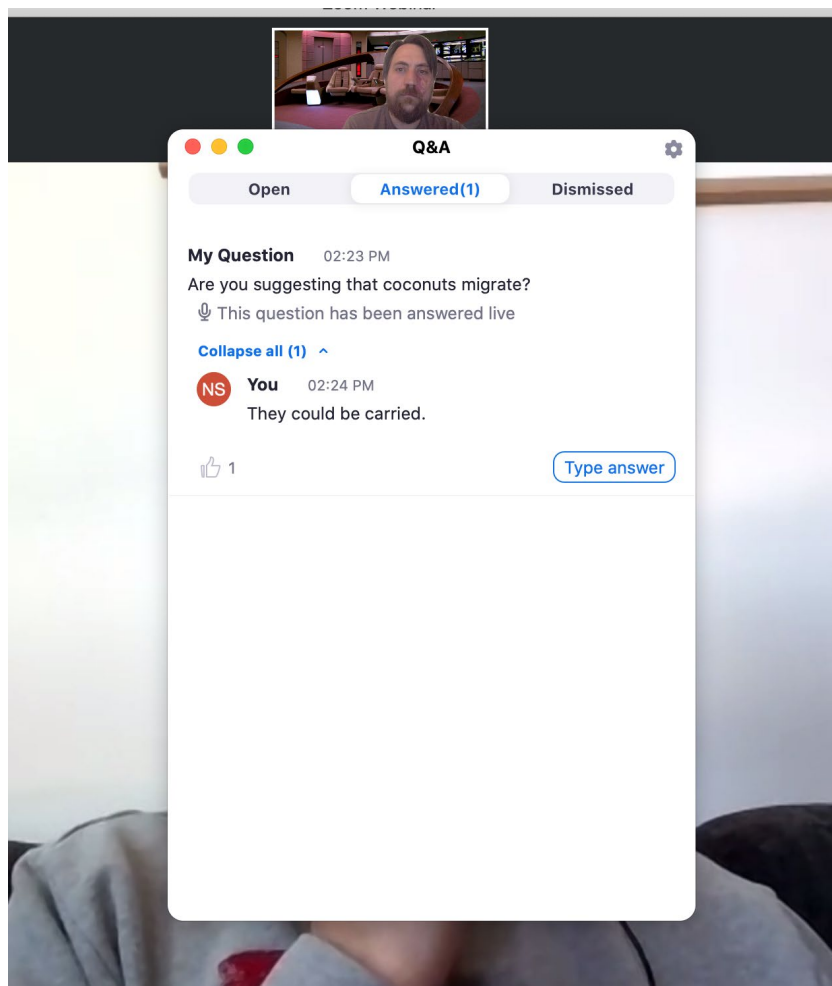
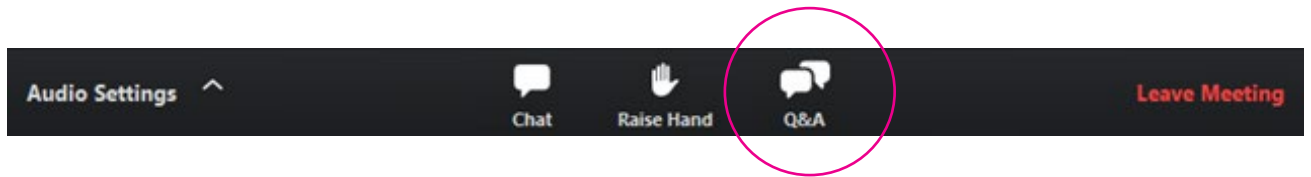
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Webinar Interface

Submit your questions with the Q&A option at the bottom.



Attendee Notebook

Webinar Interface

Ask questions
“Like” questions, comments, or answers

