



FORESIGHT

2024 OSBEELS SYMPOSIUM

September 26-27

Attendee Notebook

2024 OSBEELS Symposium
September 26-27 / 8:00 a.m. — 4:30 p.m.

FORESIGHT

Attendee Notebook

Section Links

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Important Information & Tips

- Sign into the Zoom account you registered under *before* following the link to the Symposium.
- 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.
- 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 us is to text
Nick **971-701-1844** / Ashlee **971-218-1222** / Jenn **503-551-0323**

Event Summary and Expectations

After months of preparation and planning, the 2024 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 2024 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 have 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.
- Attendees will be able to pose questions for the Q&A session, as well as “up-vote” favorited questions.
- Attendee will not have access to Chat.
- OSBEELS event staff will monitor audience questions and pull the top questions to share at the end with presenters during the Q&A session.

Best Practices

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>

- Sign-in to the Zoom account you used to register **prior** to joining the Symposium.
- 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.
- Please notify 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.

Webinar Interface

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

Sign-in to the Zoom account you registered with before joining 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>

[/w/319833382?tk=QvnVju44sn4RvDesYH_a1KqAOLurYUwnlYSss8gtpOk.DQEAAAAAExBFJhZyTkd0ZUxYcFRfS2Q3UVIMZ1VOMEdnAA](https://success.zoom.us/j/319833382?tk=QvnVju44sn4RvDesYH_a1KqAOLurYUwnlYSss8gtpOk.DQEAAAAAExBFJhZyTkd0ZUxYcFRfS2Q3UVIMZ1VOMEdnAA)

Note: This link should not be shared with others; it is unique to you.

[Add to Calendar](#) [Add to Google Calendar](#) [Add to Yahoo Calendar](#)

Or iPhone one-tap :

US: +16468769923,319833382# or +16699006833,319833382#

Or Telephone:

Dial(for higher quality, dial a number based on your current location):

US: +1 646 876 9923 or +1 669 900 6833 or +1 877 369 0926 (Toll Free) or +1 877 853 5247 (Toll Free)

Webinar ID: 319 833 382

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

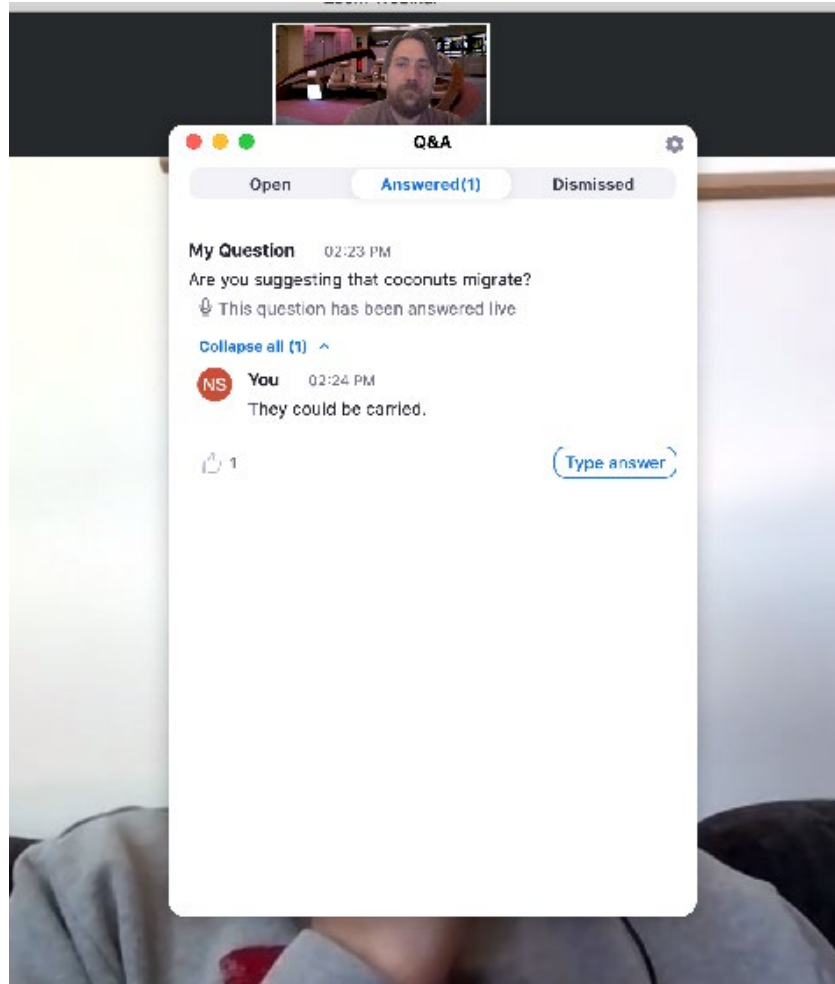
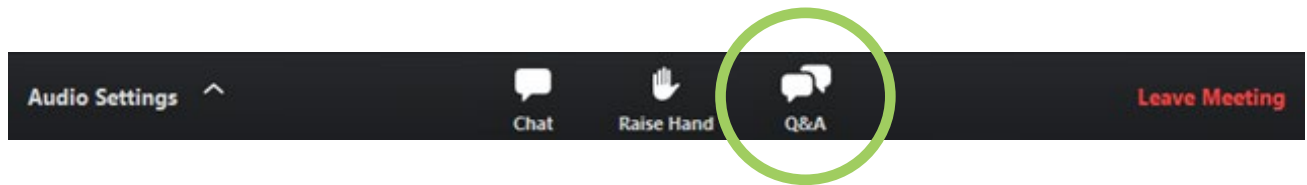
Or manually join:

1. Sign in to the Zoom Desktop Client or Mobile App.
2. Click or tap Join a Meeting.
3. Enter the 9-digit webinar ID, and click Join or tap Join Meeting.
4. If prompted, enter your name and email address, then click Join Webinar or tap Join.

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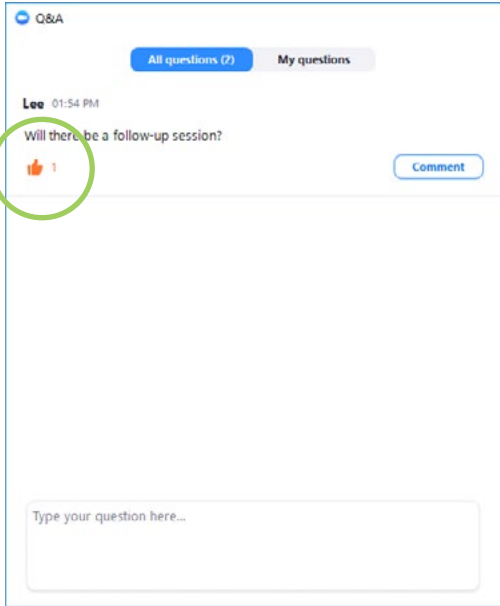
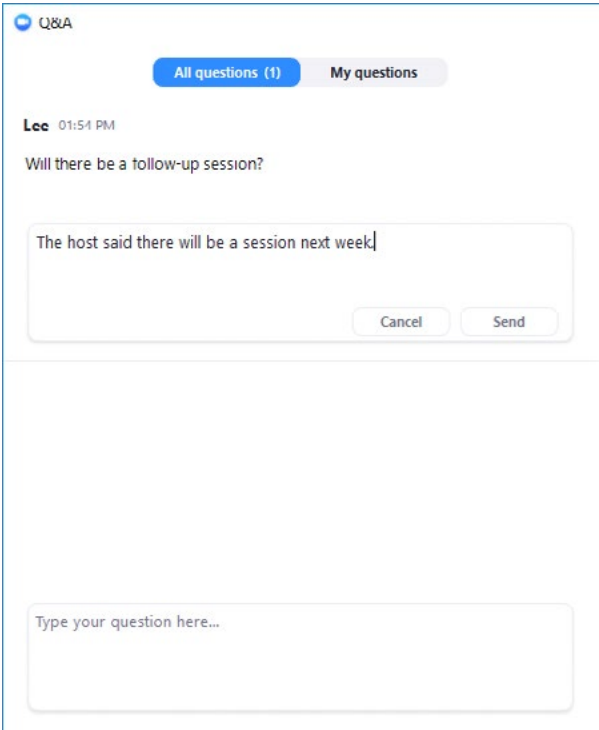
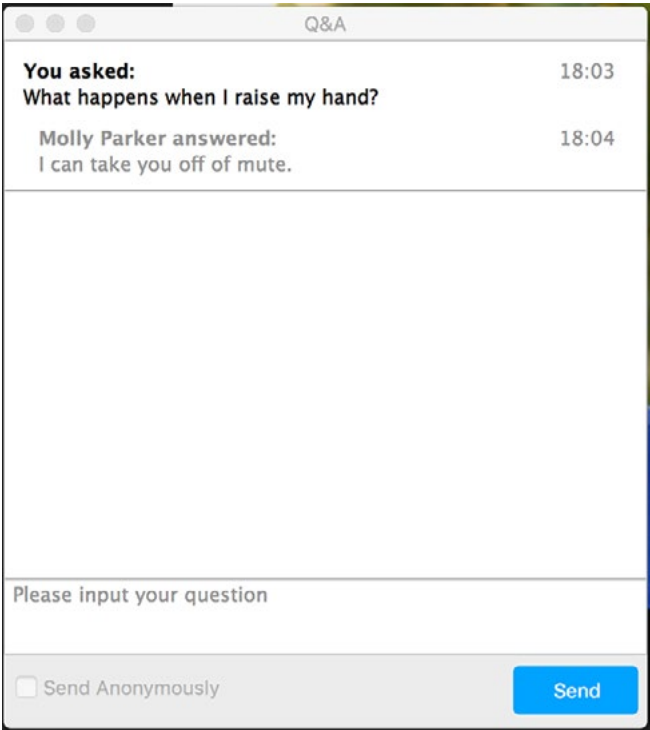
Webinar Interface

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



Webinar Interface

Ask questions
“Like” questions, comments, or answers



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Schedule

2024 SYMPOSIUM SCHEDULE		
Time	Thursday, 9/26	Friday, 9/27
8:00 – 8:15	Welcome & Intros – Jason Barbee (Board Administrator) & Tim Fassbender (Board President)	
8:15 – 9:15	NASA – Exploring the Future Dr. Gary Kitmacher - NASA	Transforming PDX for the 21st Century Christopher Pitt, PE, SE – KPFF
9:15 – 10:15	Next Steps for Wind Energy in Oregon Brent Denham, PE – PacifiCorp	A River Runs Through It: Bend’s Newport Corridor Brittany Barker, PE – City of Bend
10:15 – 10:30	Break	
10:30 – 11:30	I-205 Abernethy Bridge Project Carolyn Heniges, PE – ODOT	NCEES: Services Beyond Licensure Stefani Goodenow - NCEES
11:30 – 12:00	OIT Student Spotlight	PLSO / PEO
12:00 – 1:00	Lunch	
1:00 – 2:00	Climate Response for Engineers & Surveyors David O’Longaigh, PE, SE – Portland Water Bureau	Better Projects Through Workforce Investment Keith Kearsley, PE – PEO
2:00 – 3:00	Hydrographic Surveying Jonathan Beaudoir, PhD – HydroOctave	GNSS Modernization: New Signals in Space Bob Greene, PLS – Frontier Precision
3:00 – 3:15	Break	
3:15 – 4:15	OSBEELS Committee Overview Board and Staff – OSBEELS	Preparing Oregon’s Fuel Infrastructure for the Next Big Earthquake Mike Kortenhoff, PE, RG – DEQ
4:15 – 4:30	Closing remarks	

Presentations

NASA - Exploring the Future

Dr. Gary Kitmacher - [NASA](#)

This presentation will explore the last 50 years of science and exploration in human space flight, and where we're headed in the future of sending humans into space.

Next Steps for Wind Energy in Oregon

Tim Hemstreet, PE – [PacifiCorp](#)

Wind energy has played a significant role in Oregon's renewable energy supply since the first utility-scale deployments more than 25 years ago. What is on the horizon for wind energy developments in Oregon?

I-205 Abernethy Bridge Project

Carolyn Heniges, PE & Christopher Aguon (pron. Uggin), PE - [ODOT](#)

Did you know the Abernethy Bridge construction project is ODOT's largest construction project in over 45 years? When completed, this project will make the Abernethy Bridge the first earthquake-ready interstate bridge over the Willamette River in the Portland area. We are also improving on- and off-ramps near the bridge, along with making improvements to local bike and pedestrian routes.

Climate Response for Engineers and Surveyors

David O'Longaigh, PE, SE – [Portland Water Bureau](#)

This presentation will consider what we can do to understand the present Climate Emergency and participate in the response using system thinking, analytical tools and sustainable practices in our work as Professional Engineers and Surveyors.

Presentations

So, you want to be a hydrographer...

Jonathan Beaudoin, PhD – [HydroOctave Consulting](#)

In this presentation, we will explore at a broad level what it might take for land surveyors to begin doing hydrographic work. Topics will include commonalities and differences between the two types of surveying with a focus on highlighting some of the challenging facets of doing survey work on or in the water.

OSBEELS Committee Updates

Board and Staff – OSBEELS

TBD

Transforming PDX for the 21st Century

Christopher Pitt, PE, SE – [KPFF](#)

Portland International Airport has long been beloved in the region, and has won Travel & Leisure magazine's award for Best Airport in America almost every year for the past 15 years. However, with rapidly climbing demand for flights, the region was quickly outgrowing the existing terminal. In 2015, the Port of Portland turned to ZGF Architect's design team, including KPFF as structural engineer, to envision and design the PDX of the future; an efficient, flexible, adaptable, and welcoming facility bursting with local pride, with double the passenger capacity of the existing terminal, while providing seismic resilience and highly sustainable design. The Port strongly desired to remain a single terminal airport, and needed to keep the existing facility functioning through the project – this was not a challenge for the faint of heart! The most notable and groundbreaking feature of the PDXNext Terminal Core Redevelopment (TCORE) project is the seismically-isolated mass-timber hybrid roof structure, which was prefabricated in 18 modules on the adjacent airfield, then transported and erected over the existing facility in a series of brief middle-of-the-night limited closures, to ensure continued operations. This presentation will include project background and will explore the roof in detail, including the seismic resilience approach which targets immediate occupancy structural performance after a M9 Cascadia Subduction Zone event, project-specific physical testing for the unique glulam beam end moment connections, and the highly impressive roof erection process. On August 14, 2024, Phase 1 of the project, which includes (14) of the (18) roof panels, successfully opened to the public to rave reviews – kindling great pride in the Port and project team after over 9 years of hard work!

Presentations

A River Runs Through It: Bend's Newport Corridor

Jessie Rykels-Wilson, PE, Brittany Barker, PE, Dan Finnell, LSIT – [City of Bend](#)

The Newport Corridor Improvements is an award-winning multi-phase project combining several types of needed infrastructure improvements, from replacing failing stormwater infrastructure and aging sewer and water pipes to improving safety and connectivity for all users. The project extends along Newport Avenue from College Way to Ninth Street and on Nashville Avenue to the Deschutes River.

NCEES: Services Beyond Licensure

Stef Goodenow – [NCEES Chief Officer of Member Services](#)

In this presentation, we will discuss the use of the NCEES Record, how best to get items completed and how and when to use this program. We'll also talk about the Continuing Education (CPC) Tracking system that can be utilized for free. This presentation will also provide you an opportunity to ask questions of NCEES or learn how to become an exam volunteer.

Better Projects Through Workforce Investment

Keith Kearsley, PE – [Focused Engineering LLC & PEO](#)

Engineering teams with varied lived experience can provide benefits to projects that homogeneous teams cannot. This talk presents some of the challenges that need to be overcome and actions we can take to promote team member variety.

Presentations

GNSS Modernization: New Signals in Space - Revisited

Bob Green, PLS – Frontier Precision

In this session we will discuss the past, present and future of existing GNSS satellite constellations. This will include GPS, GLONASS, GALILEO, BeiDOU and QZSS. We will explore the similarities and differences between the various GNSS constellation's orbital parameters, signal structure and design. Recommendations will be made to capitalize on today's integrated technologies and workflows.

Preparing Oregon's Fuel Infrastructure for the Next Big Earthquake - The First Two Years

Mike Korten Hof, PE, RG – Oregon Dept. of Environmental Quality

In 2022 Oregon passed aggressive new laws (Senate Bill 1567) requiring Oregon's fuel infrastructure to be prepared for the next magnitude 9 Cascadia earthquake. The largest fuel storage terminals are required to perform unprecedented geotechnical assessment and structural redesign work to prevent catastrophe and steer Oregon towards safer, more reliable gasoline, diesel, biofuels and jet fuel supplies. Korten Hof, managing implementation of this new law for DEQ, will recount the work done in the past two years to translate this legislative directive into operable instructions and schedules for facility owners and the surrounding communities, discuss the seismic vulnerability assessments received in 2024 and the risk mitigation work to follow.