



Confluence

2025 OSBEELS Symposium

September 25-26

Attendee Notebook

2025 OSBEELS Symposium
September 25-26 / 8:00 a.m. — 4:30 p.m.

Confluence

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 2025 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 2025 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 90 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 as in attendance.

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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](https://success.zoom.us/j/319833382?tk=QmVju44sn48vDesYH_a1KqAOLurYUwnlYSSs8gtpOkDQEAAAAAExBFJhZyTkd0ZUxYcFRfS2Q3UVIMZ1VOMEdnAA)

[/w/319833382?tk=QmVju44sn48vDesYH_a1KqAOLurYUwnlYSSs8gtpOkDQEAAAAAExBFJhZyTkd0ZUxYcFRfS2Q3UVIMZ1VOMEdnAA](https://success.zoom.us/j/319833382?tk=QmVju44sn48vDesYH_a1KqAOLurYUwnlYSSs8gtpOkDQEAAAAAExBFJhZyTkd0ZUxYcFRfS2Q3UVIMZ1VOMEdnAA)

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>

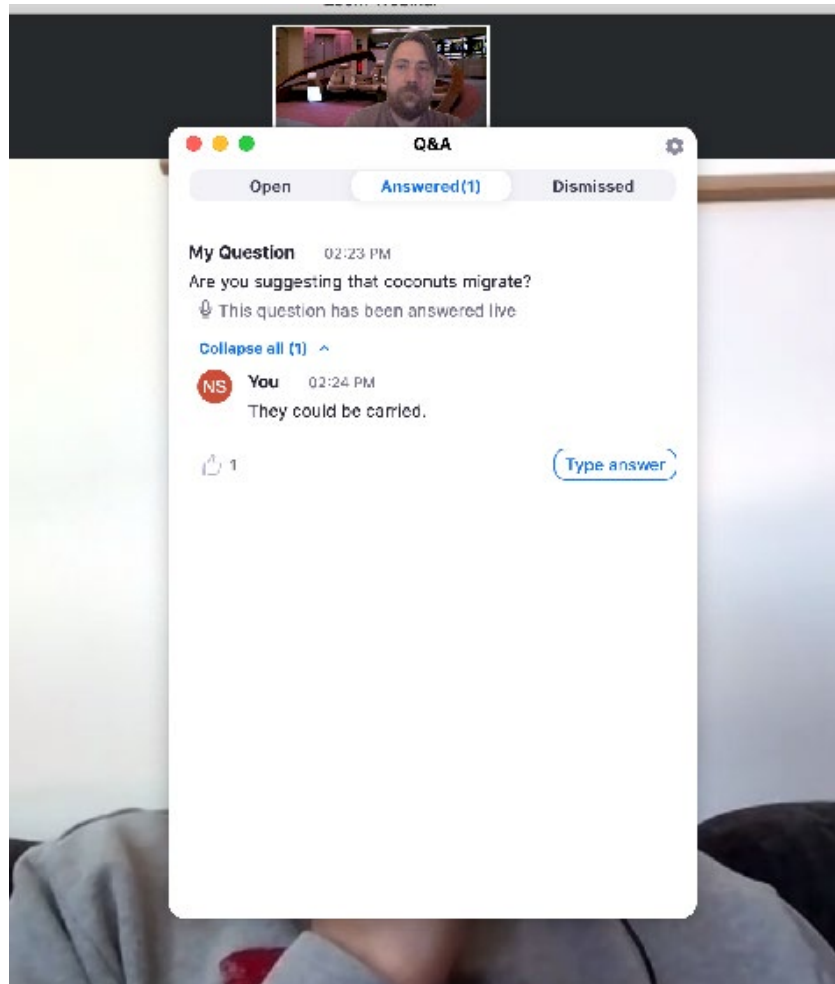
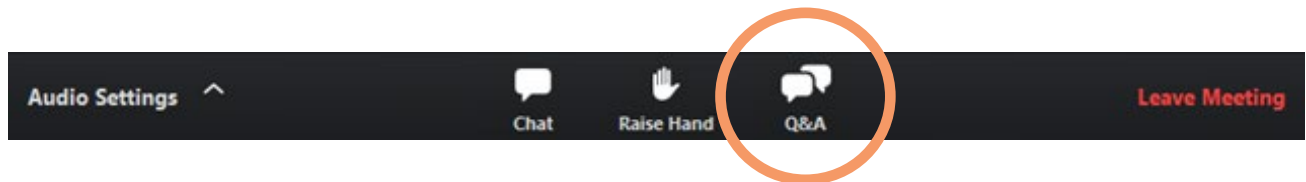
Or manually join:

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

Q&A

You asked:

What happens when I raise my hand?

18:03

Molly Parker answered:

I can take you off of mute.

18:04

Please input your question

☐ Send Anonymously Send

Q&A

All questions (1) My questions

Lee 01:54 PM

Will there be a follow-up session?

The host said there will be a session next week

Cancel Send

Type your question here...

Q&A

All questions (2) My questions

Lee 01:54 PM

Will there be a follow-up session?

👍 1

Comment

Type your question here...

2025 OSBEELS Symposium
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Schedule

Time	Thursday, Sept 25	Friday, Sept 26
8:00–8:15am	Welcome & Introductions OSBEELS Board & Staff	OACES Overview
8:15–9:45am	TriMet’s Better Red Project Guy Horchy, PE – Senior Engineer, Parametrix, Michael Alexander, Dan Naughton, PE, Sarah Touey, PE, John Willis	I-5 Over 26th Ave Bridge Replacement Robert DeVassie, PE, PMP, STP & Zach Davis, PE – Oregon Department of Transportation, Joel Tubbs, PE, SE – David Evans and Associates
9:45–10:00am	Break	
10:00–11:30am	Professional Ethics John Greenhalge – Ohio State Board	AI in Engineering, Architecture, & Construction Josh McDowell, PE, SE, LEED AP & Matthew Tuan, PE – Mackenzie, Inc
11:30–12:00pm	Student Spotlight Session Rebekah O’Neill – OSU Cascades	PLSO & PEO
12:00–1:00pm	Lunch	
1:00–2:30pm	Adopting the Modernized NSRS Michael Olson, PhD & Chase Simpson, PLS – Oregon State University	Dog River Pipeline Matthew Baldwin, PE – Jacobs Engineering, Marcelo Azevedo, PE, Tim Bedford, PE, Aaron George
2:30–2:45pm	Break	
2:45–4:15pm	Preparing Your Future Workforce Ashlee Graybeal – OSBEELS	Strengthening Infrastructure Against Wildfire Risk Dr. Erica Fischer, PE – OSU
4:15–4:30pm	Closing Remarks	

Presentations

Professional Ethics for Professional Engineers & Surveyors

Presenter: **John F. Greenhalge**, Executive Director, Ohio State Board of Registration for Professional Engineers and Surveyors

Bio:

John F. Greenhalge is the Executive Director of the Ohio State Board of Registration for Professional Engineers and Surveyors. John has been with the Board since 1998, previously serving as the Board's Enforcement Supervisor and as the Assistant Executive Director before becoming Executive Director in 2006. Prior to joining the Board John began his career as a loss prevention and human resources investigator for Sears Roebuck & Co and then as an investigator for the Franklin County Prosecuting Attorney's office.

John has a Bachelor of Science degree in Business Administration and a Master of Business Administration degree from Ashland University. John has served on numerous national committees for the National Council of Examiners for Engineering and Surveying (NCEES) including the Committee on Law Enforcement, the NCEES Leadership Task Force and the Member Board Administrators Committee and has served as national chair of the Law Enforcement and MBA committees. He has served as a presenter and guest lecturer to various organizations and colleges and universities on the topics of investigations, professional ethics, management, professional licensure and regulation. John has also written and contributed on published articles covering professional licensure, professional ethics and regulatory enforcement.

Description:

This program will cover professional ethics for professional engineers & surveyors and important licensure information for professional engineers and surveyors. Topics discussed include: ethical requirements for engineers & surveyors, responsibilities to the public, company and individual licensure requirements, tools available to organizations and firms to protect yourself and your organization, common violations of the registration and the investigative process.

Presentations

Just say 'no' to single track: TriMet's Better Red Project

Presenters: **Guy Horchy**, PE – Senior Engineer, Parametrix, **Michael Alexander**, **Dan Naughton**, PE, **Sarah Touey**, PE, **John Willis**

Bios:

Guy Horchy is a professional civil engineer and project manager who works on transportation infrastructure projects. He specializes in designing freight rail, light rail and streetcar, urban roadway, intersection, highway, and active transportation projects. Guy brings expert-level experience developing track alignments and profiles, special trackwork, yard, and facility design. His expertise also includes rail and civil construction methods and coordination with public entities during construction. He has years of experience developing specifications and special provisions for transit and other transportation projects.

In his 23+ years with Stacy and Witbeck, Michael Alexander has developed a strong background of construction experience, beginning with the estimating process and moving up to Project Manager on major infrastructure improvements for public transportation projects. He has valuable experience in design review, planning, estimating and constructing all facets of transit projects. Michael has experience with structures, track work, utilities, stations, earthwork, retaining walls, and train systems.

Dan Naughton joined SOJ in 2012 and became a partner with the firm in 2017. He brings strong technical skills, leadership, and a systematic approach in order to provide a high level of expertise to every project. Dan's expertise in feasibility analyses, project budgeting and scheduling, financing structuring, securing public approvals, team management, and overall project oversight ensures projects are executed smoothly and efficiently. He has a wealth of experience in project management using various delivery methods. Before joining SOJ, Dan worked in civil engineering managing a range of public and private projects such as housing, commercial ventures, transportation, and utilities.

Sarah Touey is the Principal and Owner of S2E Consulting, LLC with 20 years in civil engineering—over a decade focused on rail project management, including eight years in consulting and earlier roles at TriMet and WSDOT. Recent work includes project management for TriMet's Better Red, serving as Transit Lead for ODOT's I-5/Rose Quarter Improvements, and Transit Design Lead/project management for the Interstate Bridge Replacement. At TriMet, she managed State of Good Repair maintenance through the Track Rehabilitation Project, replacing aging track across multiple downtown Portland Blue Line locations (in service since 1986).

John Willis is the President and CEO of Parametrix. His consulting background is in transportation planning and engineering. He has extensive experience including transit, urban corridors, aviation, and maritime. His project experience includes the Seattle Central Waterfront, the Paine Field Snohomish County Airport expansion, the Max Red Line Extension project, and the Portland to Milwaukie Light Rail Extension (West Segment) for TriMet. He is a member of the Engineering Technology Industry Council, the United Way Campaign Cabinet, STEM Employers Coalition, and the Portland Business Alliance Board of Directors.

Presentations

Dog River Pipeline Replacement Project

Presenters: **Matthew Baldwin**, PE – Jacobs Engineering, **Marcelo Azevedo**, PE, **Tim Bedford**, PE, **Aaron George**

Bios:

Matt Baldwin is a project manager in Corvallis Oregon, bringing more than 19 years of diverse project management experience, centered on excellent communication principles across the team. He has a background in conveyance, site development, stormwater management, transportation, yard piping and large civil projects. He has been a lead pipeline engineer for many projects, as well as performed design management and project management for numerous projects. He has designed or managed over 135,000 feet of pipeline projects in the last 10 years ranging in size from 6-inches through 36-inches in diameter including both develop ROWs and cross-country alignments through challenging terrain.

Marcelo Azevedo is a geotechnical engineer located in Portland, OR. As a registered P.E. in Oregon, Washington, and Texas, he has 12 years of professional experience as a geotechnical engineer and project manager. Marcelo currently serves as a Geotechnical Group Leader for the Jacobs Northwest Geotechnical Group, supervising and mentoring about twenty geotechnical staff. He regularly functions in the role of geotechnical task lead on projects, managing geotechnical engineers and interfacing with multi-disciplinary design teams on a regular basis.

Tim Bedford is a water resources and hydraulic engineer with 12 years of experience performing hydrologic, hydraulic and geomorphic analyses for fish passage, stream restoration and flood risk management projects from planning through design and construction. He has led the conceptual and final design of more than 20 bridge and culvert projects for improved ecosystem health and river mechanics and has performed scour evaluations at over 50 bridges. He has extensive experience performing local and federal regulatory floodplain compliance and supporting NEPA and ESA fish passage and habitat improvement.

Aaron George has over 12 years of experience in civil and water resources engineering including fish screening, fish passage, water intake, and hydraulic analysis of open channel and piped systems. Based in Seattle, WA, he has worked on projects throughout the Pacific Northwest, as well as projects throughout the greater US. Aaron's fish passage project experience includes trap and haul facilities, fish ladders, natural rock ramp and rock weir type fishways, along with the study and design of modifications to existing fishways for enhanced passage of both salmonid and non-salmonid species such as Pacific Lamprey. He has also served as a screening and water intake design engineer for more than 20 power and manufacturing facilities across the nation in support of regulatory compliance with the final rule under Section 316(b) of the Clean Water Act, as well as fish screening improvements in the Pacific Northwest for compliance with salmonid protection requirements from the National Marine Fisheries Service (NMFS).

Presentations

Be in the Right Place at the Right Time: Adopting the Modernized NSRS

Presenters: **Michael Olson**, PhD & **Chase Simpson**, PLS – Oregon State University

Bios:

Michael Olson is the CH2M Hill Professor of Geomatics in the School of Civil and Construction Engineering at Oregon State University. He obtained BS and MS degrees in Civil Engineering from the University of Utah and a Ph.D. in Structural Engineering from the University of California, San Diego. Olsen serves as the Technical Director for the NSF Natural Hazards Engineering Research Infrastructure (NHERI) RAPID Facility, the Director of the Cascadia Lifelines Program (CLiP), a member of the Partnership and Applications committee of the Cascadia Region Earthquake Science Center (CRESCENT), an Associate Editor of the ASCE Journal of Surveying Engineering, the Past-President of the Surveying and Geomatics Educators Society (SaGES), and a co-founder and CEO of a tech transfer spinout company, EZDataMD, LLC.

Dr. Olsen's research focuses on the collaborative application of geospatial technologies to natural hazards as well as infrastructure monitoring and management. He teaches geomatics engineering courses at OSU where he has developed new, ground-breaking courses in 3D laser scanning, Digital Terrain Modeling, and Building Information Modeling. Example projects he has been involved with include: development of mobile laser scanning guidelines for DOTs; development of advanced point cloud segmentation, classification, registration, and modeling algorithms; landslide, rockfall, and slope stability analysis; sea cliff erosion; liquefaction hazard mapping; modeling and studying historical buildings; and 3D documentation of infrastructure performance through post-earthquake reconnaissance.

Chase Simpson is an Assistant Professor or Practice in the Geomatics program at Oregon State University. He is a highly motivated Civil Engineering/Geomatics professional with experience in the acquisition, processing, exploitation, and sharing of bathymetric, topographic, construction, and boundary surveys. He has professional and educational expertise in successfully applying the intersecting Geomatics disciplines of Physics, Engineering, Computer Science, Geography, and Photogrammetry. Chase has demonstrated experience working with clients and stakeholders in industry, government, and academia. He is passionate about applying technologies such as sUAS, lidar, and SfM Photogrammetry to address enduring geospatial challenges and applications.

Presentations

I-5 Over 26th Ave Bridge Replacement

Presenters: **Robert DeVassie**, PE, PMP, STP & **Zach Davis**, PE – Oregon Department of Transportation, **Joel Tubbs**, PE, SE – David Evans and Associates, Inc.

Bios:

Robert J. DeVassie is a Resident Engineer – Consultant Projects (Project Manager) for the Oregon Department of Transportation (ODOT). With seven years of experience at ODOT, Robert previously served for 15 years in a similar role at the Alaska Department of Transportation and Public Facilities (DOT&PF). He holds a bachelor's degree in civil engineering and a graduate certificate in design and construction management. Robert is a registered Professional Engineer in both Alaska and Oregon, a certified Project Management Professional, and a Sustainable Transportation Professional. He is also an ITE Fellow and was honored as the ITE Alaska Engineer of the Year. Beyond his professional achievements, Robert is a proud father of a daughter and two sons.

Joel Tubbs is a Senior Bridge Engineer and Project Manager with David Evans and Associates, Inc. Joel has been with DEA for over 25 years after graduating from Washington State University with his Master of Science degree, and has had the opportunity to work on multiple unique and complex projects over his career. Joel is a registered Professional and Structural Engineer in Oregon and Washington, and a proud father of four daughters.

Zach Davis serves as ODOT's Value Engineering/Project Risk Engineer and Region 4 Bend North Corridor Engineer. In this role, he leads the development and execution of ODOT's Project Risk Management, Constructability Review, and Value Engineering programs. As Resident Engineer, he successfully delivered the \$190 million Bend North Corridor Design-Build Project ahead of schedule and under budget through strong leadership, effective risk management, and the strategic use of value engineering. Over his career, Zach has delivered more than 30 infrastructure projects as a designer, resident engineer, and builder—giving him a unique, well-rounded perspective on project delivery. Passionate about excellence, innovation, and collaboration in overcoming complex challenges, he brings a proactive, solutions-driven mindset to every project. Zach is a licensed Professional Engineer in Oregon and holds a B.S. in Civil Engineering from the Oregon Institute of Technology.

Presentations

Fire-Resilient Infrastructure: Strengthening Infrastructure Against Wildfire Risk

Presenter: **Erica Fischer**, PhD, PE – Oregon State University

Bio:

Erica Fischer, PhD, PE is an Associate Professor of Civil and Construction Engineering at Oregon State University. Dr. Fischer's research interests revolve around innovative approaches to improve the resilience and robustness of structural systems affected by natural and man-made hazards. She has participated in post-earthquake reconnaissance team missions in diverse regions including Haiti, Napa, California, Italy, and Mexico City; and led post-wildfire reconnaissance in after the Camp Fire in California, the Marshall Fire in Colorado, and recently after the 2025 Los Angeles Fires. Dr. Fischer performs research on a variety of different structural systems including steel, timber, and composites subjected to hazards such as earthquakes and fires. Dr. Fischer has experience as a practicing structural engineer in New York and Seattle and holds a Professional Engineering license in the states of Washington, California, and Oregon.

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Presentations

AI in Engineering, Architecture, and Construction

Presenters: **Josh McDowell**, PE, SE, LEED AP & **Matthew Tuan**, PE – Mackenzie, Inc

Bios:

Josh McDowell is a Principal in Mackenzie's Structural Engineering Department and has 30 years of experience in the field. He leads a team of engineers in the structural design for a range of project types including commercial, retail, advanced manufacturing, and industrial facilities. Josh has an extensive background in the assessment and remodel of structures involving code compliant seismic strengthening. Josh also is very involved in strategy and implementation of technology at Mackenzie.

Matthew Tuan is an Associate in Mackenzie's Structural Engineering Department and has 6 years of experience in structural engineering. Matthew is involved in the structural design of a range of project types, with a focus on advanced manufacturing. Matthew is currently obtaining his MS in Computer Sciences and has a significant role in the implementation of artificial intelligence at Mackenzie.

Presentations

Preparing the Future Workforce: Professional Awareness & Emotional Literacy

Presenter: **Ashlee Graybeal** – OSBEELS

Bio:

Ashlee Graybeal has been with OSBEELS since 2023, bringing two decades of communications and outreach experience working in all sectors, from state government and non-profits to small business ownership and for-profit corporations. As the Communications Coordinator for OSBEELS, she focuses on keeping licensed professionals informed, helping future licensees navigate the process, and educating youth on the engineering and surveying professions.

Student Spotlight

Presenter: **Rebekah O'Neill** – OSU Cascades

Bio:

Rebekah O'Neill is a recent OSU-Cascades graduate with a degree in Engineering Science, a multidisciplinary mix of mechanical and electrical engineering. She grew up in Redmond, OR, has the cutest dog, and a big passion for adaptive technology. She's presenting today on "Project HULK SMASH: Adaptive Skateboarding System for Student with CP".