



# PEO CON2024

## Preparing For The Future



May 1/2/3 | Corvallis | CH2M Hill Alumni Center

### PEO CON2024 PROGRAM – 12 PDHs – 21 TALKS TO CHOOSE FROM

#### WEDNESDAY, MAY 1, 2024, PRECONFERENCE TOURS AND SOCIAL

1:00 – 2:30	Tour of Reser Stadium Expansion – Details to come
3:00 – 4:30	Tour of O.H. Hinsdale Wave Research Laboratory – Details to come
5:30 – 7:30	Preconference Gathering - McMenamins on Monroe UPSTAIRS LOFT No Host

#### THURSDAY, MAY 2, 2024, 6 PDHs – CH2M HILL ALUMNI CENTER

**7:00 Registration Open & Continental Breakfast**

**Kick Off Day 1** PEO President – Paul Sellke PE, GE, AKS ENGINEERING & FORESTRY, LLC

8:15 - 9:15 OPENING SESSION	<b>Challenges &amp; Opportunities</b> Dr. David Lawrence Blunck, Associate Dean for Undergraduate Programs, OSU College of Engineering. The educational needs for engineering graduates are evolving rapidly, and by extension, so are the needs from universities. How the College of Engineering at Oregon State University is responding to better support engineering students in graduating and developing professionally. Unique challenges and opportunities for this generation are discussed. Close with a brief discussion of how innovative technologies such as AI may alter educational needs.
9:30 - 10:30 SESSION A	<b>Next Steps for Wind Energy in Oregon</b> Tim Hemstreet, VP Renewable Energy Develop, PacifiCorp Wind energy has played a growing role in Oregon's renewable energy supply since it the first utility-scale deployments more than 25 years ago. What is on the horizon for wind energy development in Oregon?
9:30 - 10:30 SESSION B	<b>The Clean Air Act's First 50 Years: Major Successes and Unfinished Business</b> Merlyn Hough, P.E., BCEE – adj. faculty Environmental Engineering The major successes of the Clean Air Act over its first 50 years and identifies some areas of unfinished business. Oregon examples of airshed control strategies to meet national air quality health standards are included.

#### 10:30 - 11:00 Break | Exhibits

11:00 12:00 SESSION A	<b>Solids Removal Processes in Wastewater Treatment and Reuse</b> Bob Smith, Regional Sales Manager, Treatment Equipment Company Many times, when wastewater treatment processes are discussed, the biological component of the process takes center stage. This presentation will be an overview of many of the treatment processes available today for operators of wastewater treatment plants.
11:00 12:00 SESSION B	<b>The Future of Engineering – Emerging Issues and Licensure Trends</b> Thomas Headley, III, PE, FPEO, NSPE

#### 12:00 - 1:00 Lunch | Member's Meeting Paul Sellke, PE, GE, President, PEO, Thomas Headley, PE, FPEO, NSPE

1:00 2:00 SESSION A	<b>Strengthening Oregon's Fuel Infrastructure - The First Year</b> Mike Korten Hof, Manager, Oregon DEQ Oregon passed aggressive new laws (Senate Bill 1567) requiring our fuel infrastructure to be prepared for the next magnitude 9 Cascadia earthquake. Korten Hof, managing implementation of this new law for DEQ, will recount the work done in the first year to translate this legislative directive into operable instructions and schedules for facility owners, share early lessons learned and provide an update on an early project already underway for the critical fuel storage facilities at the Portland Airport.
1:00 2:00 SESSION B	<b>OSBEELS Law Enforcement and Professional Practices Committees</b> Jason Barbee, Agency Director/Board Administrator, OSBEELS   Ronald Stillmaker, P.E., OSBEELS Board Member OSBEELS has standing Board committees that are used to help regulate the practices of engineering and land surveying. They will be providing process overviews of the Law Enforcement and Professional Practices committees and share additional agency information and updates.

#### 2:00 - 2:30 Break | Exhibits


2:30 3:30 SESSION A	<b>An Update on the Hanford Tank Waste Treatment and Immobilization Plant</b> Kris Thomas in southeastern Washington state, Bechtel National, Inc. (BNI) is designing, constructing, and commissioning the world's largest radioactive waste treatment plant for the U.S. Department of Energy (DOE). This presentation will discuss challenges and progress in designing, building, and commissioning a vitrification facility in today's nuclear environment.
2:30 3:30 SESSION B	<b>Panel on Engineering Consulting Practice</b> Facilitated by Dirk Duryee, P.E., P.L.S., C.W.R.E. Matt Cash, P.E.   Keith Kearsley, P.E.   Kelsy Ausland, P.E. Discussion on how to prepare your firm for the future.

#### 3:30 – 4:00 Break | Exhibits

4:00 GENERAL SESSION	<b>Senator David Brock Smith</b>
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**5:00 – 9:00 CHEERS TO ENGINEERS** Celebration of Engineers at the Annual Awards Ceremony  
Reception & Buffet Dinner - Wear and support your college colors and logo proudly in true tailgate fashion!

**FRIDAY, MAY 3, 2024, 6 PDHS – CH2M HILL ALUMNI CENTER**

6:30 – 7:30	<b>Board Meeting – Members Welcome!</b> Paul Sellke, PE PEO President
<b>7:30 Breakfast &amp; Order of the Engineer Ceremony</b> – Tamara Pitman, PE, FPEO, Link Chair <b>Day Two Kickoff</b> – Paul Sellke, PE, GE, President, PEO	
8:15 9:15 SESSION A	<b>Why Care about Air</b> Jeff Yarnell – Rogers Machinery Jeff will discuss the costs of operation of compressors, in particular, electrical operating costs. Some of the material comes from the CAC Fundamentals workshop section titled.
8:15 9:15 SESSION B	<b>Portland International Airport, Terminal Core Redevelopment Project (TCORE), Roof Construction</b> Patrick Bifone, PE, Senior Project Manager, Skanska USA This presentation will provide a brief overview of PDX’s Terminal Core Redevelopment Project, which is the cornerstone of the PDX Next program of projects meant to optimize the sustainability, seismic resilience, and overall operations of the Airport. There will be an in depth focus on the new steel-wood hybrid roof, including composition and constructability.
9:30 10:30 SESSION A	<b>Treating Phosphorus in Stormwater—Using Current Data to Design for Success</b> Benjamin Boice, Oregon Stormwater Consultant, Contech Engineered Solutions LLC Phosphorus is the most regulated stormwater nutrient across the county, yet it can be a difficult pollutant to remove with traditional BMP’s. We will look at the International Stormwater BMP database to see what types of Manufactured Treatment Devices (MTD’s) are effective at removing phosphorus.
9:30 10:30 SESSION B	Reser Stadium Project and OSU Building Project (Tentative)
<b>10:30 - 11:00 BREAK   EXHIBITS</b>	
11:00 12:00 SESSION A	<b>Teaching Engineering at the Dawn of AI</b> Patrick Geoghegan   PhD Oregon State University All professions are or should be considering the affect Artificial Intelligence will have, and none more so than Engineering. This talk will not predict this future, but it will discuss the affect AI is having on teaching Engineering, how college students and teachers are adapting and where it might lead
11:00 12:00 SESSION B	<b>ODOT Overview of State Maintenance &amp; Operations</b> Engineer work, stewardship engineering, our approach to M&O, challenges we are facing.
<b>12:00 - 1:00 LUNCH Installation of Officers</b> Thomas Headley, PE, FPEO, NSPE	
1:00 2:00 SESSION A	<b>Reimagining Asbuilts – Simplifying Project Documentation</b> Paul Tice, FiOR Innovations Documenting construction projects to create accurate asbuilts has traditionally been a difficult and tedious process. Additionally, sharing up to date asbuilt information such as orthomosaics, organized construction photos, and other data collected from “reality capture” technologies, can be a challenging task with large file sizes and the specialized software required to view these files. In this presentation, we will explore case studies with projects that have used contemporary field capture technologies and showcase new ways to share this robust asbuilt data quickly and efficiently with project teams.
1:00 2:00 SESSION B	<b>DEI In Engineering: Achieving Better Outcomes</b> Keith Kearsley –PEO has conducted a local investigation into DEI in support of the NSPE initiative. In this talk, we will share our results on the state of the issue, what we as individuals, an industry, and an organization can do to help, and what results we might aim for. Learn how these actions can make engineering firms more profitable, the engineering industry more productive, and society at large better.
<b>2:00 - 2:45 BREAK EXHIBITS</b>	
2:45 3:45 SESSION A	<b>Best Practices for Design of Segmental Retaining Walls</b> Chad Julius, PE, LEED Allan Block Corporation 12 different design topics will be introduced that will cover topics from initial design considerations to how the top of the wall will be finished. Each topic is discussed by examining specific details and expanded information presented for each.
2:45 3:45 SESSION B	<b>Trends in Oregon Trades Apprenticeship Programs</b> – Panel   Sara Brady, Director of Student and Apprenticeship Administration, Northwest College of Construction   Lena Gates - Apprenticeship Coordinator, Faculty, Linn-Benton Community College   Miguel Montano, (director at PNCI)   Facilitators – John Raudsep; Karlee Demos, Employer Assistance & Apprenticeship Coordinator, Oregon Bureau of Labor and Industries. Learn about trade apprenticeships and how leaders in Oregon are preparing the next generation of trade people to help build the infrastructure of tomorrow in Oregon. After introductory remarks, there will an extended question & answer sessions with the Panel.
4:00 5:00 CLOSING GENERAL SESSION	 <b>The MECOP/CECOP Advantage</b> Sarah Jones, PE, David Evans, and Associates Learn about the MECOP/CECOP advantage and how MECOP prepares the next generation of engineering and business students for the professional world. MECOP partners with Oregon State University, Portland State University, University of Portland, and Oregon Institute of Technology to place almost 650 students in two six-month internships. 150 companies in the Pacific Northwest participate in MECOP.
<b>CLOSING REMARKS</b> – Ronald Stillmaker, PE, PEO President	

**NOTE – Schedule and speakers subject to change without notification.**

## Meet our Presenters...

**Kelsy Ausland, PE, DBIA** is President of Ausland Group, an integrated design and construction services firm with offices in Grants Pass and Eugene. Ausland Group provides commercial construction services to both public and private clients throughout the Northwest Region, with a niche for Design-Build Delivery. Her team includes in-house architects, structural engineers, civil engineers, construction professionals, and tradespersons, all of whom are focused on the company's vision of providing "world-class development, locally scaled to our communities."

**Jason Barbee, Agency Director/Board Administrator, OSBEELS** Jason joined the Oregon Department of Revenue in 2000 after graduating from the University of Oregon. In his 13 years at the DOR, he worked in and managed various tax programs. He then spent six years working for the Oregon Employment Department; most of that time was in the role of Unemployment Insurance Division Deputy Director for Policy and Operations. He has been the Agency Director and Board Administrator for the Oregon State Board of Examiners for Engineering and Land Surveying (OSBEELS) since October of 2019.

**Patrick Bifone, PE**, is a Senior PM with Skanska USA. He has 15 years' experience and has been a part of mega projects in New York, Southern California, and Oregon. One of his focuses on PDX's TCORE Project has been planning construction in an active airport and the necessary coordination with daily airport operations to prevent impacts to passengers or flights. David Lawrence Blunck, Associate Dean for Undergraduate Programs, OSU College of Engineering

**Benjamin Boice** is a mid-westerner who came to the PNW to finish college 10 years ago and never left. Since his senior year at Portland State University Benjamin has worked in the stormwater world for Contech Engineered Solutions. His days are filled working with the engineering community to come up with stormwater management solutions on challenging sites. His hobbies include disc golf, good conversations, and naming his increasingly large family of pets after former U.S. presidents! Fun Fact, Benjamin has traveled to over 23 countries.

**Sara Brady** started with the Northwest College of Construction in 2007 and became the Director of Student and Apprenticeship Administration in 2014. Sara has also worked as the Director of Apprenticeship for Associated Builders and Contractors, Pacific Northwest Chapter, and as an Apprenticeship Representative for the Oregon Bureau of Labor and Industry, Apprenticeship and Training Division. As the Director of Student Services and Apprenticeship Administration at the College, Sara is responsible for the management of all day-to-day operations of 9 registered apprenticeship programs administered by NWCOC, as well as the management of other students training at the College. Sara has developed a deep passion for apprenticeship and workforce training and is dedicated to recruiting, training, and retaining a highly skilled workforce for the construction industry by promoting life-long learning and excellence through career and technical education.

**Dr. David Lawrence Blunck, Associate Dean for Undergraduate Programs, OSU College of Engineering** David Blunck has been a faculty member at Oregon State University since 2013 and is currently serving as Associate Head for Undergraduate Programs in the College of Engineering. In this capacity he oversees the education experience of nearly 10,000 undergraduate students. His research expertise is understanding the spread of wildfires and combustion for propulsion applications. A good day is when he is "burning and learning." Prior to working at OSU, he was a researcher for the Air Force Research Laboratory where he conducted combustion and combustor research. He and his wife, 4 sons, 30 chickens, and 3 goats live on a small farm in Albany, OR.

**Matthew Cash, P.E, F.PEO**, President Fluent Engineering Matt founded, and has owned and operated a MEP (Mechanical, Electrical, Plumbing) engineering firm headquartered in Salem, OR starting in 2008. Matt is licensed in over 20 states, and Canada. He has served as PEO President, Educational Foundation President, and currently is on the PEO board & is the Educational Foundation Treasurer. Matt's experience spans over 1 billion in project costs, hundreds of millions of sq. feet, and he has over 25 years of experience.

**Karlee Demos**, Employer Assistance & Apprenticeship Coordinator, Oregon Bureau of Labor and Industries a Training, Development and Apprenticeship Specialist with the State of Oregon Bureau of Labor and Industries. She works in a dual role with the Employer Assistance Program and the Apprenticeship & Training Division. She is a graduate of Oregon State University with a degree in Public Health and currently resides in eastern Oregon where she can meet with individuals, employers, and organizations to discuss employment law best practices and apprenticeship exploration. In her free time, she likes to run, read, and hike with her husband and dog Lola.

**Dirk Duryee, P.E., P.L.S, C.W.R.E.**, President, Tye Engineering and Surveying, Inc In 1997, Dirk Duryee, PE, PLS, CWRE\*, joined the Tye Engineering team from the Palouse Hills University of Idaho. Dirk brought his professional know-how, creativity, and tenacity to the firm. As a result, Tye Engineering has experienced unprecedented growth. He has vast experience with water resource engineering along with private development engineering. In 2016, Dirk became president of the company. In his spare time, he can be found telemark skiing in the backcountry, running the trails, or pursuing elk with his bow.

**Lena Gates, MS**, Linn-Benton Community College Apprenticeship Coordinator – Lena has been with Linn-Benton Community College for 9 years. She has a master's degree in industrial and organizational psychology and began working with the Apprenticeship Department in 2018. She is currently the Department Chair and Administrator for three Apprenticeship committees.

**Patrick Geoghegan | PhD | Peter & Rosalie Johnson Chair | Chemical, Biological & Environmental Engineering, Oregon State University** Patrick joined the faculty of Oregon State University in 2020. He previously worked at Oak Ridge National Laboratory and has been a consultant to companies and government agencies focused on nuclear power generation. He obtained his Chemical Engineering degree from University College Dublin, Ireland, and his PhD/PostDoc from the University of Cambridge, England.

**Thomas Headley, III, PE, FPEO, NSPE Board Member** Tom Headley is the Bend Office Supervisor and a Sr. Project Manager with Century West Engineering with a focus on airport infrastructure projects. His role within Century West also includes leading the company's Mentorship Program and engaging with employees across the company to guide career path development. As an early EIT, Tom was brought to a Central Oregon PEO meeting in 2009. Liking the camaraderie and mentorship, he kept showing up and eventually found himself President of the local chapter. That led to term as PEO President in 2020-2021. A few years serving on the NSPE House of Delegates for Oregon and Chair of the NSPE Western and Pacific Region has since turned into a position on the NSPE Board of Directors Executive Committee through 2024. Tom is a vocal advocate for engineers at all career stages to get involved in some form of service to the engineering industry and community it serves.

**Tim Hemstreet, P.E** VP Renewable Energy Develop, PacifiCorp serves as Vice President of Renewable Energy Development for PacifiCorp, a multi-state utility serving approximately 2 million customers in Oregon, Washington, California, Idaho, Utah, and Wyoming. A licensed civil engineer, Tim has worked for PacifiCorp for nearly 20 years in the areas of environmental policy, hydroelectric licensing and engineering, and the development and optimization of renewable energy resources.

**Merlyn Hough, P.E., BCEE** is currently Adjunct Faculty in environmental engineering and science at the University of Portland. He served 15 years as Executive Director of the Lane Regional Air Protection Agency (LRAPA) in Springfield-Eugene, Oregon. Before LRAPA, he worked 31 years for the Oregon Department of Environmental Quality. He is a 1998 Fellow of the Air & Waste Management Association and served as A&WMA President in 2012. Merlyn has been a board-certified environmental engineer by the American Academy of Environmental Engineers & Scientists since 1984. He enjoys flyfishing in the streams and lakes of Oregon, hiking and cycling with his wife Martha, five children and eleven grandchildren.

**Sarah Jones, PE**, is the Civil Practice Leader at David Evans and Associates. She received her B.S. in Civil Engineering from Oregon State University. She is a graduate of the CECOP program where she completed 2 internships. She is currently serving as the treasurer of the MECOP board of directors and vice president of CECOP. She has been involved in CECOP for 10 years as a primary company representative, mentor, and board member. In 2023, she was awarded OSU's Award for Outstanding Early Career Alumni for her exceptional service to MECOP/CECOP and her excellent work as an engineering professional.

**Chad Julius, PE, LEED AP** is the vice president at Allan Block Corporation as determined by Allan Block Corporation based on 25 plus years of research, design, and field experience.

**Keith Kearsley, PE, President, Focused Engineering LLC** Keith has a BSME and MSME with honors from Northeastern University and has spent 25 years developing aerospace, medical device, consumer products, construction & industrial equipment, and prefabricated components. Keith is state treasurer of PEO, Mid-Willamette chapter treasurer, member of ASME, volunteers with Hosea Youth Services, and hosts a Burrito Brigade free food pantry. Keith is passionate about excellence in engineering.

**Mike Kortenof, RG, PE** is manager of the Oregon DEQ Fuel Tank Compliance Section and is leading implementation of the new DEQ Fuel Tank Seismic Stability Program.

**Tamara Pitman, P.E., FPEO** Springfield Utility Board, PEO Link Chair Special project management, including AMI and Smart Grid Assessment. Manage material and construction standards. Conduct engineering studies and make system planning recommendations.

**Paul Sellke, P.E., G.E. PEO President** Project Engineer at AKS Engineering and Forestry. Licensed Civil Engineer (Oregon, California & Nevada) and Geotechnical Engineer (Oregon & California) with over 26 years of experience across the Pacific Northwest and west coast. Have managed and provided geotechnical and civil engineering services for major public works, numerous landslide evaluation and stabilization projects, cell towers, commercial and industrial projects, roadways, and numerous subdivisions and building projects in all of the major cities and most counties in Oregon, southern Washington, and northern California. Specialties: Geotechnical Engineering, Civil Engineering. Recent service to PEO as President from 2022 to present.

**Senator David Brock Smith** is a third-generation resident of Oregon's South Coast. Senator Smith served as an Oregon House Representative for six years before his appointment to the Senate in January 2023. He is honored to represent the constituents of Oregon Senate District #1, which encompasses all of Curry, and parts of Coos, and Douglas counties.

**Bob Smith**, Regional Sales Manager, Treatment Equipment Company Working in the manufacturing sector for much of the time since graduating the University of Washington with a B.S. in Mechanical Engineering, and having managed many wastewater projects cradle-to-grave, Bob has had the opportunity to see, touch, and smell a lot of wastewater systems for applications as diverse as small communities to beverage bottling plants. In his current role with Treatment Equipment Company, he has the opportunity to work with water and wastewater systems for municipalities and industry, helping to select equipment and processes to assist the operators in accomplishing their important missions. When Bob is not talking about treating water, he enjoys spending time with his wife, three boys and several animals on his property in Southern Oregon.

**Ronald Stillmaker, P.E.** Senior. Civil Engineer SHN Engineers & Geologists, Inc. Mr. Stillmaker has over 38 years of Civil and Environmental Engineering experience with emphasis on municipal utilities along with structural design. His experience includes project planning, development, design, and construction management with relation to water lines, storm and sanitary sewer systems and street/roadway facilities. He has been responsible for a considerable amount of structural design and analyses for residential and commercial buildings. Mr. Stillmaker has developed a good reputation for working through to successful completion, projects involving multi-jurisdictional and public interests. Currently serves as PEO President Elect and House of Delegates Representative.

**Paul Tice, CEO** FiOR Innovations has 22 years' experience with leading technical teams on various commercial construction, geospatial, and public utilities projects. Over the years, he has developed a passion for supporting 3D technicians worldwide with educational materials on 3D field capture and construction technologies through LinkedIn Learning, industry periodicals, and conferences. Paul operates two companies; ToPa 3D, and FiOR Innovations which provide 3D field capture services and cloud-construction software, respectively.

**Kris Thomas** is a Senior Technical Advisor for the U.S. Department of Energy, Office of River Protection in Richland, Washington. In this capacity he has oversight responsibility at the Waste Treatment and Immobilization Plant also known as the "Vit Plant." He has been a team member on nuclear safety, quality assurance, startup, commissioning, and operational readiness reviews. Mr. Thomas was ORPs technical point of contact for issues related to vessel fabrication, design, and repair helping ensure dozens of pressure vessels were inspected, repaired, and brought into compliance with the applicable codes and standards.

**Jeff Yarnall, PE (ret)** has spent his entire career with Rogers Machinery, starting as a Sales Engineer and then forming the company's Audit and Efficiency Department. In addition, he is one of the initial instructors for the Compressed Air Challenge, a volunteer organization committed to saving energy in compressed air systems.