PRESIDENTS MESSAGE - David Etchart, PE

It’s been a remarkable year for PEO and we’re headed into our Annual Conference in Corvallis, which looks to be one of our best ever, in about six weeks. Members are collaborating all over the state and chapter programs are very good and progressively getting better. NSPE is standing up their role to be good partner and are continually providing support in several areas, particularly in helping PEO with our awareness of national statutory trends affecting our profession and in helping us advocate on the best choices related to proposed legislation with the state of Oregon and on OSBEELS rulemaking efforts. We have a well-respected engineer and Board member on the OSBEELS Board who is doing an excellent job in providing responsible governance and a balanced point of view.

We held a what turned out to be a well-attended statewide Town hall web meeting in January from which several key ideas emerged and, John Rasberry, an industry experienced and respected engineer has emerged as our new representative as liaison for the industrial practice in Oregon.

I encourage you to attend this year’s Annual Conference in Corvallis on May 16 and May 17 at the CH2M Hill Center. You will have opportunity to participate in excellent programs in the Technical Track and the Technical Management Track, and we are holding a session for university students to attend a one hour Panel Discussion to introduce them to the career value of being a registered professional engineer as they pursue their visions following graduation. If you have a particular interest in participating in that panel discussion, please let Ralph Cohen know as soon as possible. Since the OSU School of Engineering has scheduled their annual technical fair for Friday, May 17, our PEO members will have a chance to drop over and check out what bright university engineering students are coming up with currently.

We wish you a productive Spring and hope to see you at the Conference.

David

ELECTION OF STATE OFFICERS & NOMINATIONS FOR ENGINEER & YOUNG ENGINEER OF THE YEAR

Election of State Officers:
Enclosed ballot provides the slate of officers proposed by the PEO Nominating Committee for the coming year. Please return to the PEO office in the pre-addressed envelope provided with this mailing. Envelope must be postmarked on or before April 10th to be accepted.

Young Engineer of the Year & Engineer of the Year Nominations:
Each year members of PEO nominate individuals that are worthy of these awards. These individuals do not need to be members of PEO. Qualifications are described on the nominations form.

Announcement - Annual Members Meeting:
Annual members meeting is scheduled for May 11, 2018: You are invited to the Annual Members Meeting of the Professional Engineers of Oregon. The meeting will take place at Salishan Resort in Gleneden Beach, Oregon at 12:00 pm during the luncheon at the conference.

Thank you for your attention to these important matters, and for your prompt return of your completed ballot and nomination form. Electronic vote has been emailed to members. Please choose to vote by mail or email. Deadline April 15th.
ATTENTION PEO MEMBERS...

BOARD OF EXAMINERS FOR ENGINEERING AND LAND SURVEYING DIVISION 10 LICENSING

In accordance with the Oregon Administrative Rule (OAR) 820-010-0635, each registrant is charged with the responsibility of maintaining records of the professional development hour (PDH) acquired for the biennial renewal schedule. If audited, a registrant must report and submit to the OSBEELS office the PDH units acquired.

820-010-0635 Continuing Professional Development The purpose of professional development requirements is to demonstrate a continuing level of competency of professional engineers, land surveyors, and photogrammetrists. Go to the OSBEELS website for details on this rule. Administrative Rules - DIVISION 10 - LICENSING.

The PEO Local Chapter Programs, Annual Conference, Seminars and NSPE Online Webinars can qualify for your continuing professional development. Enclosed is the OSBEELS CPD Organizational Form and instruction. We look forward to being of service to our members in providing educational programs.

JOB BOARD

To place a position on this site it is complimentary to member companies. Non-member companies there is a fee of $150.00 per placement. To place a position please email JOB POSTING TO: peo@oregonengineers.org. For more information please call 800-919-9552.

SOUTHWEST CHAPTER LOOKING FOR A NEW GENERATION OF ENGINEERS

This past Engineers Week, the Southwestern Chapter held its 13th annual Career development dinner at Southwestern Oregon Community College to build interest in engineering for high school students. Attending were members of the southwestern chapter of Professional Engineers of Oregon and the southwestern chapter of Professional Land Surveyors of Oregon. “This dinner is presented by the local professional organizations to introduce high school students to what careers are available in engineering and land surveying. Along with the local professional organizations presenting to the crowd were representatives from Oregon State, Portland State University, Oregon Institute of Technology, SWOCC and the Oregon Board of Examiners for Engineering and Land Surveying.

Southwest’s chapter president and PEO Board member Ron Stillmaker indicated “We’re trying to get these students interested, to see if they have any inkling to make engineering a career,” Stillmaker said. “We’re teaching them about what makes it desirable and what kind of salaries to expect. There is a need for engineers in this world and it’s a career where you can better yourself and better the world.”

Since being part of the career development dinner, Stillmaker has seen positive results from attending students. One year after he presented on structural engineering, one North Bend High School teen spoke with him and later went on to get a masters degree in structural engineering.

“I’d like to think it’s due to this dinner and our discussion,” he laughed. “We’re just needing to get out the idea to the high school community that there are lots of great engineering jobs and it’s an industry that needs people.”

Local engineers and surveyors set up display tables and talked “one-on-one” with interested students related to the various disciplines of the profession and what they may be doing in high school to prepare for such succeeding in such a career. Presentations were given by each of the attending colleges during dinner, describing their programs.

MID-WILLAMETTE CHAPTER PEO NEWS:

- Merlyn Hough recently became Acting Chapter Vice President and is facilitating a Springfield meeting venue site at LRAPA. Thank you Merlyn!
- The April chapter meeting, business portion, will be our 2nd time having a meeting over the internet by Zoom at venues in Salem and Springfield.
- After the business portion of our chapter meeting, both venues then view the technical presentation being webcast from the Columbia Chapter in Portland, prior to April by Zoom Meeting, subsequently trying by Zoom Webinar.
- We received an OK from NSPE to utilize their ‘free’ webinars for members as presentations for our chapter meetings. We hope to try doing one of these when appropriate.
HONORING OF ONE OF CENTRAL OREGON’S GREAT ENGINEERING LEADERS.

William (“Bill”) Tye, of Tye Engineering and Surveying in Bend, passed away the morning of January 6, 2019. Having founded the Central Oregon Chapter of Professional Engineers of Oregon in 2000, Bill led the establishment of the Chapter’s college scholarship program. Those who knew Bill knew his tireless promotion of the scholarship program to encourage aspiring engineers from Central Oregon. His leadership will be greatly missed by the engineering community, though his inspiration to local engineering leaders will live on. In honor of Bill Tye’s legacy and his commitment to scholarship program, local engineers are contributing to the Central Oregon PEO scholarship fund. In 2014, Bill committed $10,000 to match Central Oregon donations. Bill would be pleased to know that we are on track to surpass his match challenge in 2019.

COLUMBIA CHAPTER PEO NEWS

This winter we continued our monthly programs. Topics have included “Widening I-5 Through the Rose Quarter – Boondoggle or Panacea?”, Ethics, A panel discussion held jointly with CMAA on “Concrete, Steel, or Cross Laminated Timber – Pros and Cons”, “What’s Happening With Solid Waste Recycling in Oregon?” We have continued to use Zoom to link 2-3 sites including the Mid-Willamette chapter. In April we will attempt a webinar for our program, offering it to any PEO/NSPE member in the state. The topic will be “Cryptosporidium – how it affects our drinking water”. The final two programs for the season will be “Internet Security and How to Not Get Hacked” and “Fire Suppression – Old and New Methods”.

In March we fielded a team (A Coir, R Cohen, S Green, J Kolisch, S Ronning) that talked with high school students about engineering at the annual Engineer’s Week event in Portland. (see attached pictures)

The current chapter president is Randall Shannon and the treasurer is Jeff Yarnall.

Submitted by Ralph Cohen, Programming Co-chair.

2019 MATHCOUNTS STATE COMPETITION WAS A GREAT SUCCESS!

CONGRATULATIONS TO ALL THE STUDENTS

Top 5 students
1 Goel, Ram Krishna Homeschool
2 Pandit, Suyash Cedar Park Middle School
3 Kappler, Alan Davidson Academy
4 Singh, Nividh Stoller Middle School
5 Arifin, Yusef Cedar Park Middle School

Top 5 schools
1 Cedar Park Middle School Chapter: Washington Co. & NW Oregon
2 Stoller Middle School Chapter: Washington Co & NW Oregon
3 West Sylvan Middle School Chapter: Clackamas & Multnomah Co.
4 Athey Creek Middle School Chapter: Clackamas & Multnomah Co.
5 Catlin Gabel School Chapter: Washington Co., & NW Oregon

Our team will be competing in the 2019 Raytheon MATHCOUNTS National Competition Information May 11-14, 2019 in Orlando, FL. The 2019 Raytheon MATHCOUNTS National Competition will be held at the Hilton Orlando Lake Buena Vista, 1751 Hotel Plaza Blvd., Lake Buena Vista, FL 32830. The 224 final Mathletes from 50 U.S. states, U.S. territories, State Department schools and Department of Defense schools and their coaches will be treated to a National Competition experience like no other. We hope that you will join us for an exciting weekend of fun and spirited competition in Orlando, FL!
MEMBER SPOTLIGHT...Janelle Kolisch P.E., CCP | Senior Cx Agent
CBRE | HEERY Commissioning

What do you do? I am a Senior Commissioning Agent for CBRE | Heery. Typically during a building construction project, I will be hired directly by the owner to act as a technical project manager/ third party verification to test and validate that the mechanical, electrical, plumbing and other specialty systems are designed, installed, and working per contract documents.

What do you value in the people you work with? I value people who act with respect, integrity, and passion in their career.

Who is your most influential role model? My most influential role model is my friend Ryan who recently passed away suddenly from Leukemia. Ryan didn’t have the word “no” in his vocabulary. He always went out of his way to make sure his friends were safe, comfortable and happy. He had friends from all aspects of his life, and when you met a friend of his you knew they were a good person simply because they were friends with him. His life and passing has inspired me to live and love like he did, to the fullest.

If you weren’t an engineer, you’d be? If I wasn’t an engineer I would do something in product design, although I knew I was going to be an engineer very early on. My first coloring book was a set of my Dad’s blueprints.

Proudest accomplishment? Being selected as 2017 Young Engineer of the Year.

Finish this sentence: You joined PEO to...I joined PEO to network with fellow engineers and never stop learning.

JUDGE ISSUES OPINION AND ORDER IN U.S. DISTRICT COURT FOR OREGON
Case No. 3:17-cv-00652-SB
On December 29, 2018, U.S. Magistrate Judge Stacie F. Beckerman issued her opinion and order in the U.S. District Court for Oregon case 3:17-cv-00652-SB. In this case, the members of the Oregon State Board of Examiners for Engineering and Land Surveying (OSBEELS) were the defendants against plaintiff Mats Jarlstrom. The case was first filed by Mr. Mats Jarlstrom in April, 2017, challenging the constitutionality of the OSBEELS’s title and practice laws in Oregon Revised Statutes (ORS) 672.002-672.325, and sought injunctive relief for himself.

Generally, the OSBEELS title act is the set of laws that regulate whether a person may hold himself or herself out as a “professional engineer”, “professional land surveyor”, or “registered professional photogrammetrist”. Also generally, the OSBEELS practice act is the set of laws that regulate whether a person may perform engineering, land surveying, or photogrammetric mapping work.

The OSBEELS understands the attention the professional engineering and land surveying communities were paying to this case and because of this, the OSBEELS would like to summarize the outcome of the case and inform our state registrants what its practical impact will be.

Regarding the OSBEELS title act, the Federal Court found that in two instances the title act (ORS 672.002(2) and ORS 672.007(1)(b)), violated the first amendment of the U.S. Constitution. As a resolution, the court struck the word “engineer” from these two subsections of the law, but left the terms “professional engineer” and “registered engineer” intact as regulated titles.

The Court did not find any sections of the OSBEELS practice act unconstitutional.

The OSBEELS did not dispute the sought-after Injunctive Relief for Mr. Jarlstrom, and it withdrew the final order issued by the Board against him in 2016. The District Court’s order prevents any future Board investigations related to his research and communications concerning traffic light timing, with some narrow exceptions. This relief also grants Mr. Jarlstrom the ability to describe himself as an “engineer”.

Mr. Jarlstrom did not appeal the District Court’s ruling.

As a result of this case, the OSBEELS will no longer investigate or pursue an unregistered individual who identifies themselves as an “engineer.”

However, the OSBEELS will continue to register individuals and protect the life, health, and property of the public by regulating the professions of engineering, land surveying, and photogrammetric mapping.

The Oregon Department of Justice is pursuing legislative changes to conform ORS 672.002(2) and ORS 672.007(1)(b) to the Court’s order.

JOIN US FOR THE DAY AT THE CAPITOL APRIL 29TH
Oregon Design Professionals Day at the Capitol is a day for professional and practicing engineers, surveyors, architects and landscape architects.

Where - Oregon State Capitol Meet In Room 350 - 900 Court Street Northeast - Salem, OR 97301

For more information on this event and to register go online at www.oregonengineers.org

PEO is reviewing over 16 bills. Hope you can be apart of the conversation!
SEE YOU IN CORVALLIS AT THE CH2M HILL ALUMNI CENTER FOR THE

2019 PEO ANNUAL CONFERENCE!

WEDNESDAY, MAY 15TH WORKSHOP | TOUR

THURS. MAY 16 - FRI. MAY 17 CLASSES | TOURS | EXHIBITS

CH2M HILL ALUMNI CENTER / Oregon State University, 725 SW 26th St, Corvallis, OR 97331

REGISTER ONLINE @WWW.OREGONENGINEERS.ORG

Wednesday, May 15th Workshop "Impactful Writing - How to Achieve It PLUS What you say & how you say it makes a difference"


Thursday, May 16th & Friday, May 17th  PEO Annual Conference - 24 Classes to choose from - See complete schedule of classes & tours

Registration Fees Per Person - Workshop & PEO Annual Conference:

- Workshop Fee
  1 attendee $225.00 PEO Member / $375 Non-members per person
  2 or more attendees from the same company $175.00 PEO Member) / $325 Non-members per person

- PEO Member Discounted PEO Annual Conference Registration Fee
  $50.00 Early Bird Discount available for Two Day Registration expires April 17th.
  $395.00 PEO Members Two Day Conference (Includes Awards Banquet)
  $190.00 PEO Members One Day Only (Award Dinner Not Included - You may add dinner)

Join today and save on 2 Day Registration PLUS National State & Local Membership includes 15 Free online PDHs. www.nspe.org - $299 a year, You'll be making an investment in your professional future.

- Non Member PEO Annual Conference Registration Fee
  $545.00 Non Members Two Day Conference (Includes Awards Banquet)
  $340.00 Non Members One Day Only Dinner Not Included

- Thursday Night Reception & Awards Banquet (Included with Two Day Conference Registration) - $55.00
- Ring for the Friday Order of the Engineer Ceremony - $15.00

Lodging Call (541) 752-5000 Hilton Garden Inn- walking distance to the CH2M Hill Alumni Center. Free parking for guest at Hilton Garden Inn. Ask for the Professional Engineers of Oregon special rate.

Parking Parking passes are required between 7am-5pm on weekdays. Parking is $1/hour for up to 4 hours or $10/day in the lot behind our building, the parking garage and across the street at Reser Stadium. You can purchase parking permits at kiosks upon arrival, or purchase a daily parking permit online: https://transportation.oregonstate.edu/parking/visitors .
Tuesday, May 14, 2019

9:00 – 3:30 WORKSHOP - Impactful Writing - How to Achieve It by William Nesbitt - The presentation defines the characteristics of impactful writing and the qualities necessary to achieve it. The focus is on writing that encourages and often requires personal expression—to motivate or change attitudes, as well as to educate/inform; to appeal to a range of audiences, not just technical peers; and to express strong opinion and present clear conclusions. It includes examples of ‘good’ and ‘poorly written’ material and exercises to demonstrate how to sharpen writing and editing skills.

PLUS What You Say & How You Say It Makes A Difference by Arty Trost - The foundation of influence is the validity and soundness of the content or idea itself. Your skills and experience as a Professional Engineer give you the tools to make substantive contributions. Too often, however, even the best ideas and recommendations may fall on deaf ears if the interpersonal dimension of influence is overlooked. This portion of the workshop will provide you with specific techniques for defining the issues, clarifying your sphere of influence, framing your recommendations, and building your credibility.

3:40 – 5:00 TOUR Limited to 2 Groups of 12: George W. Peavy Forest Science Center (College of Forestry headquarters) & A.A. “Red” Emmer-son Advanced Wood Products Lab on OSU campus. Meet at the CH2M Hill Alumni Center at 3:40 pm.

Thursday, May 16, 2019

7:00 BREAKFAST / REGISTRATION / EXHIBITS OPEN
7:45 WELCOME - David Y. Etchart, P.E., PEO President

8:00- 9:00 KEY NOTE – Driving Innovation: How engineers hold the keys to Oregon’s economy
Scott Ashford, Kearney Professor & Dean of the College of Engineering - Oregon State University
Dean Ashford will discuss how continuous innovation is needed for Oregon to thrive, and how creative partnerships can fuel our state’s economy.

It’s no secret that many of Oregon’s most innovative employers are being driven by engineers. And the availability of an innovative workforce is what will attract new companies to Oregon, and keep the ones we have. Where can innovation take the state, and what can we do as professional engineers to make it happen?

POLICY/MANAGEMENT/TECHNICAL TRACK

9:10 – 10:10 Oregon’s Energy Portfolio - Adam Schultz, ODE, Oregon Public Utility Commission This presentation will cover where we get our electricity, liquid fuels, and natural gas and how are those sources changing over time and what impact does that have on the state’s ability to meet its climate goals. How to evaluate the state of energy resilience and address questions of preparedness of our energy systems to withstand and recover from major disruptions like those expected from a Cascadia Subduction Zone earthquake.

Application of Reinforcement Learning to Construction Engineering Prasad Tadepalli, PhD & Joseph Louis, PhD, Oregon State University
The continued renewal and maintenance of civil infrastructure systems is paramount. This class will cover the diversity of the networks (sewage, transportation, water etc.) that comprise these infrastructure systems, their maintenance operations have similar traits such as being temporary, transient and involving complex collaborations with man, machine, and the physical environment.

10:10 BREAK / EXHIBITORS

10:30- 11:30 Fluorescence Image-Guided Surgery for Improved Clinical Outcomes Dr. Summer Gibbs, PhD, Associate Professor, Biomedical Engineering, Knight Cancer Institute, OHSU Center for Spatial Systems Biomedicine - Learn about the development of novel nerve- and cancer-specific fluorescent contrast agents for FGS application will be presented. FGS has the potential to revolutionize surgery by enhancing visualization of specific tissues intraoperatively.

Agricultural Innovation Through Big Data, Sensing Automation, & On-the-Ground Practices to Meet Our Future Demands - Chad Higgins, PhD, Oregon State University - Agricultural innovation can incorporate advances from other fields: technological innovations, AI and big data are on the horizon. Agricultural innovations are also initiated from grand challenges that face food fuel and fiber producers.

11:30 LUNCH - EXHIBITORS “Tuskegee Airman – To the Moon, Mars, & Beyond”, the story of his father, Tuskegee Airman Ben “Flaps” by Berry Ben Berry

1:00 – 2:00 Panel Leveraging Process & Talent for Better Outcomes Keith Kearnsley, PE, President, Focused Engineering LLC, Senior Vice President of Rocking Inc. Panel - Cory Mefford, Collins Aerospace, Robert Roedts, Columbia Helicopter, Humam Talhami, Cascade Corporation & Josh Smith, Nautilus Inc. - Panel will share What are we doing well? What could we be doing better? How can engineers promote continuing education, ethics, and public safety both within and without the corporate exemption?

Artificial Intelligence: Myths & Realities Julie A. Adams, PhD, Oregon State University, Computer Science - While the media and Hollywood may lead you to believe that artificial intelligence will either solve all the world’s problems or will be humans’ nemesis, the reality is that this technology faces significant limitations. Self-driving cars and machine learning applications are frequently in the headlines, but daunting hurdles remain to be resolved before this technology is ubiquitous.

2:10 – 3:10 Continuation Panel Leveraging Process & Talent for Better Outcomes

Update on Climate Change Edward Brooke, PhD, College of Earth, Ocean, & Atmospheric Sciences, Oregon State University - The trajectory forward, the 2050 net zero GHG global goal, and the role of design professionals in affecting that trajectory - Detailed studies of Earth’s past climate place modern changes in context and show how unusual the rate and magnitude of current changes are. Projections of near future change put us in virtually uncharted territory. Limiting climate change impacts requires fast action because future change is already “baked in” to the earth system. Engineering innovations are part of the solution.

3:10 BREAK / EXHIBITORS

3:30- 4:30 TOURS of 2 Labs on OSU Campus O.H. Hinsdale Wave Research Lab - Pedro Lomonaco, PhD Structural Materials Lab/ Green Building Materials Lab - Christopher Higgins, Ph.D., P.E. (NY)
Attendees may take a shuttle or can drive. Maps will be provided. Meet Shannon Souza at facility entrance.

Use of In-Situ Liquefaction Testing to Guide the Port’s Seismic Resilience Planning Armin Stuedlein, PE, PhD, Oregon State University - Portland engaged OSU to conduct large-scale in-situ tests to establish the seismic response of soils underlying PDX. A series of blasting tests were conducted to excite the targeted soil sensors to allow the observation of the seismic soil performance. This presentation provides an overview of the seismic hazards facing the Port, the basis for conducting the in-situ tests, videos of the experiments, and preliminary results to-date.

5:00 – 9:00 RECEPTION / YOUNG ENGINEERS RECEPTION / DINNER/AWARDS BANQUET /INSTALLATION OF OFFICERS
### Friday, May 17, 2019 Classes & Schedule

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>7:30</td>
<td>Order of the Engineer Ceremony – Tamara Pitman, PE, Link Chair</td>
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<tr>
<td>10:00 - 2:00</td>
<td>OPTION TO ATTEND vs. CONFERENCE SPEAKERS Engineering Undergraduate Expo (Kelley Engineering Center, Johnson Hall &amp; Community Plaza) - OSU undergraduate students will share their work through the use of models, demonstrations, and posters. Attendees will have the opportunity to interact directly with individual students, ask questions, and exchange ideas.</td>
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<td>8:00 - 9:00</td>
<td><strong>POLICY/MANAGEMENT/TECHNICAL TRACK</strong> – PUC Docket Updates &amp; What They Mean For The Electricity Mix/ Market - Elaine Prouse, Deputy Director of the Utility Division, OPUC - How does the current regulatory structure help or hinder this technological transition while continuing to provide safe, reliable service that’s affordable for all customers? The Oregon Public Utility Commission is working with stakeholders to evolve our electric system, including distribution system planning, PURPA 2.0, &amp; performance based regulation.</td>
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<td><strong>TECHNICAL TRACK</strong> – Registration, Investigations, &amp; Other Board Processes - Board Member or Staff, OSBEELS - Learn about the Oregon State Board of Examiners for Engineering and Land Surveying’s processes, committees, and resources available to state registrants. This interactive presentation will feature an OSBEELS Board member speaking on the Board’s structure, registration and regulation processes, updates, and how to become more involved with Board activities.</td>
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<td>9:10 - 10:10</td>
<td><strong>POLICY/MANAGEMENT/TECHNICAL TRACK</strong> – Panel Unmanned Aircraft Systems - Darryl Abling, PUR Range Manager, Jason Schwartz, Port of Portland, Airside Operations Planner, Christopher Glantz, PLS, ODOT, Deputy Chief of Surveys, Lead Remote Sensing Surveyor Engineering Automation – Geométronus – This class will cover the role of the FAA Approved UAS Test Ranges in integrating UAS into the National Airspace System &amp; work that the Pendleton UAS range is doing in support of the NASA Systems Integration &amp; Operationalization demonstration planned for the summer of 2020.</td>
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<td><strong>TECHNICAL TRACK</strong> – Water Resources, Reservoir Operations, &amp; Climate Change In The Willamette Valley - Desiree Tullos, PhD, PE, Professor, Biological &amp; Ecological Engineering Department, Oregon State University - Dr. Tullos will share the results of a study that examined the individual &amp; collective changes in reservoir performance at the thirteen flood regulation projects within the Willamette River Basin (WRB) in Oregon with sufficient hydrologic &amp; operational resolution to identify if climate &amp; operational changes were likely to exceed the capacity &amp; flexibility of the system.</td>
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<tr>
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<td>BREAK / EXHIBITS</td>
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<tr>
<td>10:30 - 11:30</td>
<td><strong>POLICY/MANAGEMENT/TECHNICAL TRACK</strong> – Continuation Panel Unmanned Aircraft Systems - Andrew Dick, ODOT, Connected, Automated, &amp; Electric Vehicle Advisor, Eric Hesse, PBOT, Supervising Planner for Policy Innovation &amp; Regional Collaboration, Janette Shaw, Forth, Director Government Relations – Presentation on Electric vehicles &amp; learn what the State of Oregon is doing to prepare for the future of mobility. How Autonomous vehicles create new opportunities to advance community goals for mobility, access, equity, safety, public &amp; environmental health, even as it presents risks that could worsen outcomes in those areas. Learn what Portland is doing to engage these technologies.</td>
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<td><strong>TECHNICAL TRACK</strong> – Concentrating Solar Power - Gustavo Buhacoff, Director, O&amp;M, BrightSource Energy, Inc. Solar thermal tower technology can be deployed with thermal energy storage to concentrate the sun’s energy &amp; produce power when it is most needed. A combination of software, electrical &amp; mechanical innovations allow cost reductions &amp; higher efficiencies for power, EOR, desalination &amp; industrial applications.</td>
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<tr>
<td>11:30</td>
<td>LUNCH / PEO MEMBER MEETING</td>
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<td>1:00 - 2:00</td>
<td><strong>POLICY/MANAGEMENT/TECHNICAL TRACK</strong> – Panel on Autonomous &amp; Zero Emission Vehicles - Andrew Dick, ODOT, Connected, Automated, &amp; Electric Vehicle Advisor, Eric Hesse, PBOT, Supervising Planner for Policy Innovation &amp; Regional Collaboration, Janette Shaw, Forth, Director Government Relations – Presentation on Electric vehicles &amp; learn what the State of Oregon is doing to prepare for the future of mobility. How Autonomous vehicles create new opportunities to advance community goals for mobility, access, equity, safety, public &amp; environmental health, even as it presents risks that could worsen outcomes in those areas. Learn what Portland is doing to engage these technologies.</td>
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<td><strong>TECHNICAL TRACK</strong> – Engineering Ethics - David Martini, PE, NSPE President Elect - The presentation will include an overview of engineering ethics along with case studies that will give participants the chance to consider scenarios where the Board of Ethical Review has issued opinions.</td>
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<td>2:10 - 3:10</td>
<td><strong>POLICY/MANAGEMENT/TECHNICAL TRACK</strong> – Panel on Autonomous &amp; Zero Emission Vehicles - Andrew Dick, ODOT, Connected, Automated, &amp; Electric Vehicle Advisor, Eric Hesse, PBOT, Supervising Planner for Policy Innovation &amp; Regional Collaboration, Janette Shaw, Forth, Director Government Relations – Presentation on Electric vehicles &amp; learn what the State of Oregon is doing to prepare for the future of mobility. How Autonomous vehicles create new opportunities to advance community goals for mobility, access, equity, safety, public &amp; environmental health, even as it presents risks that could worsen outcomes in those areas. Learn what Portland is doing to engage these technologies.</td>
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<td><strong>TECHNICAL TRACK</strong> – The Pacific Marine Energy Center (PMEC) &amp; The Opportunity for Marine Energy - Bryson Robertson, PhD, PE, Associate Professor, Civil &amp; Construction Engineering, Oregon State University - The presentation will provide an overview of PMEC, opportunities &amp; challenges for the development of marine energy, &amp; the role Oregon has in this global effort. The PMEC is a collaboration between Oregon State University, University of Washington &amp; University of Alaska Fairbank, focused on facilitating marine energy technology commercialization, informing policy &amp; regulation, &amp; educating the workforce of tomorrow.</td>
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<td>3:10</td>
<td>BREAK</td>
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<td>3:30 - 4:30</td>
<td><strong>POLICY/MANAGEMENT/TECHNICAL TRACK</strong> – American Society of Civil Engineers - Oregon Infrastructure Report Card - Mark Libby, PE, HDR - The Oregon Section of ASCE Spring 2019 Infrastructure Report Card addresses the conditions of our infrastructure in 14 categories including: Aviation, Bridges, Dams, Drinking Water, Energy, Hazardous Waste, Inland Waterways, Levees, Ports, Rail, Roads, Solid Waste, Transit, &amp; Wastewater. The report card evaluates 8 key criteria for each category: Capacity, Condition, Funding, Future Need, Operation &amp; Maintenance, Public Safety, Resilience, &amp; Innovation. This presentation will provide an overview of the process &amp; results of the report card.</td>
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