



# 2018 Northwest Transportation Conference

"Moving the transportation profession forward"

## **Tuesday, March 13, 10:00am-12:00pm**

### **Opening Plenary Session: Welcome and Introductions**

Travis Brower, ODOT

Dr. Jason Weiss, OSU

Phil Ditzler; FHWA

### **Keynote Presentation: [Smart Cities And Transportation](#)**

Presentation by: Kenneth R. Montler, urban.systems  
Partner & Chairman of the Board, Mobility Cubed, Inc.

## **Tuesday, March 13, 1:30pm-3:00pm**

### **Panel Discussion: Difficult Transportation Decisions**

Mike Quility, Rogue Valley MPO

Travis Brower ODOT ([Difficult Transportation Decisions](#))

Kerry Kemp City of Waldport ([McKinney Slough Bridge – case study](#))

## **Tuesday, March 13, 3:30pm-5:00pm**

### **1A. Oregon's Non-Traditional Planning Toolbox**

Moderator: Becky Knudson, ODOT

- a) [Overview of Non-Traditional Tools: Tackling New Questions](#)  
Presentation by: Tara Weidner, ODOT
- b) [Creative Analysis Using HERS-ST: US-97 Case Study](#)  
Presentation by: Rich Arnold, ODOT
- c) [Predicting Driver Response to Highway Disruptions: Uh Oh, Road's Closed](#)  
Presentation by: Dejan Dudich, ODOT

### **1B. Procurement Independent Contractor & Conflict of Interest**

Moderator: Jon Lazarus, ODOT

- a) [Independent Contractor](#)  
Presentation by: Megan Hodges, ODOT
- b) [Conflict of Interest](#)

Presentation by: Jon Miller, ODOT

## **1C. Organizing and Using Transportation Information**

Moderator: Tony Knudson, ODOT

- a) [\*Cross Business Line Public Communications Approach for Metro Area Construction at ODOT\*](#)  
Presentation by: Tova Peltz , ODOT with contributions from Dee Hidalgo, ODOT
- b) [\*Travel Time Reliability in PORTAL and the Effective Use of Transportation Data\*](#)  
Presentation by: Dr. Kristin Tuftte, PSU
- c) [\*Urban Growth Management through Travel Demand Modeling in Oregon and Washington\*](#)  
Presentation by: Jin(xiang) Ren ODOT

## **Wednesday, March 14, 8:30am-10am**

### **2A. Active Transportation - Analysis and Impacts**

Moderator: Josh Roll, ODOT

- a) [\*Improvements for Oregon Pedestrians\*](#)  
Presentation by: Dr. Kate Hunter-Zaworski, OSU
- b) [\*Pedestrian Level of Traffic Stress\*](#)  
Presentation By: Peter Schuytema, ODOT
- c) [\*An Examination of the Impact of Increasing Commercial Parking Utilization on Cyclist Safety in Urban Environments\*](#)  
Presentation by: Masoud Ghodrat Abadi OSU, with contributions from Dr. David Hurwitz OSU, Manali Sheth OSU, Dr. Anne Goodchild UW, & Dr. Ed McCormack UW

### **2B. Seismic Resiliency and Lifeline**

Moderator: Matthew Mabey, ODOT

- a) [\*Shaking It Up: Community Focused Bridge Seismic Resiliency\*](#)  
Presentation by: Allison Pynch, PE, GE, Hart Crowser, Inc.
- b) [\*O-HELP: Oregon Hazard Explorer for Lifelines Program\*](#)  
Presentation by: Nick Mathews, OSU

### **2C. Big Data Performance Measures for Smarter Traffic Signals**

Moderator: Alison Tanaka, Kittleson

- a) [\*Operating Traffic Signals in a Connected World\*](#)  
Presentation by: Peter Koonce, Portland Bureau of Transportation
- b) [\*Building Washington County's Bluetooth Congestion Metrics Program\*](#)  
Presentation by: Shaun Quayle , Washington County
- c) [\*ODOT Automated Traffic Signal Performance Measure Case Studies\*](#)  
Presentation by: Julie Kentosh, ODOT
- d) [\*An Introduction to NCHRP Project 03-122: Performance-Based Management of Traffic Signals\*](#)  
Alison Tanaka, Kittleson

**Wednesday, March 14, 10:30am-12:00pm**

**3A. Land Use, Trips, and Travel**

- a) [\*The Five W's of Travel Behavior: Fundamental Data at the Root of our Understanding\*](#)  
Presentation by: Alex Bettinardi, ODOT
- b) [\*The Rural Perspective: Technical Report for the Washington County Transportation Futures Study\*](#)  
Presentation by: Michael Miller Pacific University, with contributions from Dr. James Moore, Prescott Devinney, Jacob Rose, Sophia Solano, and Pablo Valenzuela
- c) [\*The Economy in the Land Use Transportation Driver's Seat\*](#)  
Presentation by: Becky Knudson, ODOT

**3B. Worker Safety**

Moderator: Rebekah Jacobson, ODOT

- a) [\*Student worker safety\*](#)  
Presentation by: John Gambatese, with contributions by Ding Liu, OSU
- b) [\*Synthesis of State Highway Worker Safety Programs and Practice\*](#)  
Presentation by: Zachary Barlow, with contributions from Dr. John Gambatese, OSU and Dr. David Hurwitz, OSU
- c) [\*Working Safely in the Right-of-way\*](#)  
Presentation by: Don Smith, ODOT

**3C. Preparing for Connected and Automated Vehicles**

Moderator: Jim Peters, DKS

- a) [\*AASHTO Connected Vehicle Coalition Update\*](#)  
Presentation by: Dean Deeter, Athey Creek Consultants
- b) [\*Preparing for Connected and Automated Vehicles in Oregon\*](#)  
Presentation by: Eryca Dinsdale, ODOT
- c) [\*Washington State DOT Efforts to Prepare for Connected and Automated Vehicles\*](#)  
Presentation by: Ted Bailey, PE, WSDOT

**Wednesday, March 14, 12:00pm-1:30pm**

**Luncheon Presentation**

[\*History of Traffic Control Devices in Oregon\*](#)  
Presentation by: Ed Fischer, ODOT (Retired)

**Wednesday, March 14, 1:30pm-3:00pm**

**4A. Understanding Truck Parking: An Emerging Safety Issue to Oregon Highway Users**

Moderator: Dr. Sal Hernandez, OSU

- a) [\*Understanding Probable Reasons for Freeway Ramp and Shoulder Parking: An Emerging Safety Issue to Oregon Highway Users\*](#)  
Presentation by: Jason Anderson, OSU

- b) [\*Uncovering Confounding Factors of Large-Truck Crashes and Safety Critical Events: An Exploratory Analysis of a Northwest Truck Driver Survey\*](#)  
Presentation by: Joseph Claveria, OSU

#### **4B. Data collection and analysis in transportation management**

Moderator: Laura Wilt, ODOT

- a) [\*Use of high accuracy GPS by non-surveyors at ODOT\*](#)  
Presentation by: Chris Pucci ODOT
- b) [\*Using Mobile Lidar Data for Automated Extraction and Evaluation of Pavement Markings\*](#)  
Presentation by: Jaehoon Jung, OSU with contributions from Dr. Michael Olsen, OSU
- c) [\*Using Mobile Laser Scanner to Support Work Zone Reviews of Temporary Signage\*](#)  
Presentation by: Dr. John Gambatese, OSU with contributions from Ziyu Jin

#### **4C. Real World Connected Vehicle Implementations**

Moderator: Nathaniel Price, FHWA

- a) [\*Connected Vehicle Implementation in New York, Florida and Beyond\*](#)  
Presentation by: Robert James, HNTB
- b) [\*Wyoming Connected Vehicle Pilot Project\*](#)  
Presentation by: Tony English, Neaera Consulting
- c) [\*Connected Vehicle Applications in Oregon\*](#)  
Presentation by: Tom Stiles, Intelight  
[\*ODOT Connected Vehicle Applications\*](#)  
Presentation by: Galen McGill, ODOT

### **Wednesday, March 14, 3:30pm-5:00pm**

#### **5A. New tools LIDAR and UAV**

Moderator: Kira Glover-Cutter, ODOT

- a) [\*Bridge Structural Inspection by using Bridge Information Modeling \(BrIM\) and Unmanned Aerial Vehicles \(UAVs\)\*](#)  
Presentation by: Yiye Xu, OSU
- b) [\*Bridge Construction Progress Monitoring using Mobile LiDAR and 4D Information Models\*](#)  
Presentation by: Nisha Puri, OSU

#### **5B Acquisition Planning: Choosing a Procurement Vehicle**

Moderator: Jon Lazarus, ODOT

##### [\*Choosing a Procurement Vehicle \(Combined Presentation\)\*](#)

- a) *Price Agreement Determination process and Price Agreement List*  
Presentation by: Jody Owens, ODOT & Mary Cole, ODOT
- b) *Small Purchase process*  
Presentation by: Jody Owens, ODOT
- c) *Procurement timelines*  
Presentation by: Mary Cole, ODOT

## **5C. Innovations in Data for Operation**

Moderator: Galen McGill, ODOT

- a) [\*Data for emergency special event planning and operations –Eclipse\*](#)  
Presentation by: Joel R McCarroll, ODOT and Brendan Baggett, ODOT
- b) [\*Automating Real-time Reporting of Lane Closures Using Arrow Boards\*](#)  
Presentation by: Dean Deeter
- c) [\*Using Data to Improve Traffic Incident Management\*](#)  
Presentation by: Darin Weaver, ODOT

## **Thursday, March 15, 8:30am-10:00am**

### **6A. Human Centered Design of Transportation Facilities: highlighting Oregon's leadership!**

Moderator: Kate Hunter-Zaworski

#### [\*Introduction to Human Centered Design\*](#)

- a) [\*Bikes and Pedestrians\*](#)  
Presentation by: Sheila Lyons, P.E.
- b) [\*LEV's \( Light Electric Vehicles\)\*](#)  
Presentation by: Dr. Kate Hunter-Zaworski, OSU
- c) [\*Complete Streets and Road Diets\*](#)  
Presentation by: Sheila Lyons, P.E
- d) [\*Protected Intersections \( Dutch Intersections\)\*](#)  
Presentation by: Dr. Kate Hunter-Zaworski, OSU

### **6B. Risk Identification and Contractual Process in Transportation Projects**

Moderator: Jon Lazarus, ODOT

- a) [\*Risk Register: Best Practices to Identify and Respond to Project Risks\*](#)  
Presentation by: Clyde Raymer Jr, PMIWV
- b) [\*Making confident contractual risk decisions on ODOT projects\*](#)  
Presentation by: Twyla Cobos, ODOT

### **6C. Multimodal Integrated Corridor Management**

Moderator: Caleb Winter, Metro

- a) [\*Managing Multiple Facilities in a Multimodal Corridor: I-84 Multimodal Integrated Corridor Management\*](#)  
Presentation by: Caleb Winter, Metro
- b) [\*Harnessing Technology to Improve Fleet Operations: TriMet Rail Operations Optimization Technology \(ROOT\)\*](#)  
Presentation by: A.J. O'Connor, ITS Manager, TriMet
- c) [\*A Multi-Tool for Transit: Enhanced Transit Corridors\*](#)  
Presentation by: Jamie Snook, Principal Planner, Metro

## **Thursday, March 15, 10:30am-12:00am**

## **7A. Moving Freight**

Moderator: Ray Drake, ODOT

- a) [\*Freight Intermodal Connectors... For Every Mode and Every Move\*](#)  
Presentation by: Robin Marshburn, ODOT
- b) [\*Freight Bottlenecks – Identifying Delay Affecting Truck Freight\*](#)  
Presentation by: Becky Knudson, ODOT
- c) [\*US97 Corridor Freight Plan: Preparing a Safe and Efficient System\*](#)  
Presentation by: Rick Williams, ODOT

## **7B. Agile Project Management & Change Management in Transportation**

Moderator: Jon Lazarus, ODOT

- a) [\*Defining Agile and Best Practices\*](#)  
Presentation by: Clyde Raymer Jr, PMIWV
- b) [\*Agile and Change Management at ODOT\*](#)  
Presentation by: Richard Upton, ODOT