



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 Tufte, 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