



2018 Northwest Transportation Conference

"Moving the transportation profession forward"

TUESDAY, March 13, 2018 Registration, CH2M-HILL Alumni Center, 9:00 am

10:00 to 12:00	Vendor Fair – Exhibits Open	Opening Plenary Session: Welcome and Introductions-CH2M-HILL Alumni Center Ballroom Travis Brower, ODOT; Dr. Jason Weiss, OSU; Phil Ditzler; FHWA		
		Keynote Presentation: Smart Cities And Transportation Kenneth R. Montler, urban.systems Partner & Chairman of the Board, Mobility Cubed, Inc		
Luncheon, 12:00-1:30pm				
1:30 to 3:00		Panel Discussion: Difficult Transportation Decisions Mike Quilty, Rogue Valley MPO, Travis Brower ODOT, Kerry Kemp City of Waldport		
Break, 3:00 – 3:30				
3:30 to 5:00		Room A	Room B	Room C
		1A. Oregon's Non-Traditional Planning Toolbox	1B. Procurement Independent Contractor & Conflict of Interest	1C. Organizing and Using Transportation Information

WEDNESDAY, March 14, 2018 Registration, CH2M-HILL Alumni Center, 8:00 am

8:30 to 10:00	Vendor Fair – Exhibits Open	Room A	Room B	Room C
		2A. Active Transportation - Analysis and Impacts	2B. Seismic Resiliency and Lifeline	2C. Big Data Performance Measures for Smarter Traffic Signals
Break, 10:00 – 10:30				
10:30 to 12:00		3A. Land Use, Trips, and Travel	3B Worker Safety	3C. Preparing for Connected and Automated Vehicles
Luncheon, 12:00-1:30pm Ed Fischer, History of Traffic Control Devices in Oregon				
1:30 to 3:00		Room A	Room B	Room C
		4A. Understanding Truck Parking: An Emerging Safety Issue to Oregon Highway User	4B. Data Collection And Analysis in Transportation Management	4C. Real World Connected Vehicle Implementations
Break, 3:00 – 3:30				
3:30 to 5:00		5A. New tools LIDAR and UAV	5B. Strategic Sourcing: The Right Procurement Vehicle	5C. Innovations in Data for Operations

THURSDAY, March 15, 2018 Registration, CH2M-HILL Alumni Center, 8:00 am

8:30 to 10:00	Room A	Room B	Room C
	6A. Human Centered Design Of Transportation Facilities: Highlighting Oregon's Leadership!	6B. Risk Identification and Contractual Process in Transportation Projects	6C. Multimodal Integrated Corridor Management
Break, 10:00 – 10:30			
10:30 to 12:00	Room A	Room B	
	7A. Moving Freight	7B. Agile PM & Change Management in Transportation	

Detailed Breakout Session Information

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

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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*
- c) Presentation by: Rich Arnold, ODOT
- d) *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
- c) *Q&A session*

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

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2A. Active Transportation - Analysis and Impacts

Moderator: Josh Roll, ODOT

- a) *Improvements for Oregon Pedestrian*
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

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3A. Land Use, Trips, and Travel

Moderator:

- 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 of Pacific University
- 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
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
- b) *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, 1:30pm-3:00pm

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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: Galen McGill, ODOT and Tom Stiles, Intelight

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

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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

- 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

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6A. Human Centered Design of Transportation Facilities: highlighting Oregon’s leadership!

Moderator: Kate Hunter-Zaworski

- 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
- c) *Q&A session*

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

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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