



ASCE-EWRG & APWA
2023 Sustainable Stormwater Symposium

September 20-21, 2023
Portland, OR

Oregon Museum of Science and Industry (OMSI)
1945 SE Water Avenue

Day 1 – Wednesday, September 20, 2023	
7:15 - 8:00 am	Symposium Registration and Continental Breakfast (Provided)
8:00 - 8:10 am	Welcome and Opening Remarks – Adam Lee, Symposium Chair
8:10 - 8:15 am	Land Acknowledgement - Tammie Wilson (Sugpiaq-Alutiiq), Clean Water Services, EWRG Board President
8:15 - 9:00 am	6PPD: Collaboration, Research, and Action Around Toxic Tire Chemicals <i>Madison Rose Bristol, 6PPD Stormwater Planning Lead, Washington State Department of Ecology</i>
9:00 - 9:55 am	SESSION 1 – Pollutant Removal Performance <i>Moderator: Teresa Huntsinger, Otak</i> Phosphorus Removal in Stormwater Treatment Systems: What Can Recent Field Data Teach Us? – Benjamin Boice, Contech WQ & Pervious Pavement - Taking a Lesson from Gresham – Steve Adams & Jen Garbely, City of Milwaukie and Katie Holzer, City of Gresham
9:55 - 10:05 am	BREAK

<p>10:05 - 11:00 am</p>	<p style="text-align: center;">SESSION 2 – Model Applications <i>Moderator: Jamie Feldman, Geosyntec Consultants</i></p> <p>Assessing Risk and Right-Sizing Design Using a Probabilistic Approach to Hydrologic and Hydraulic Modeling – Seth Sokol, Parametrix</p> <p>Making Sense of It All: A User-Friendly Visualization Tool to Analyze Model Results – Thomas Suesser, Brown and Caldwell</p>
<p>11:00 - 11:10 am</p>	<p>BREAK</p>
<p>11:10 am - 12:05 pm</p>	<p style="text-align: center;">SESSION 3 – Industrial Approaches to Water Quality <i>Moderator: Katie Husk, Consor</i></p> <p>Grattix Boxes: A Simple Solution for Treating Roof Runoff – Aaron Guffey, Lower Columbia Estuary Partnership</p> <p>Medford Airport Taxiway Boxless BioPod BioFilter – Jay Holtz, Oldcastle Infrastructure</p>
<p>12:05 - 1:15 pm</p>	<p>LUNCH (Provided) <i>OMSI Riverfront Courtyard</i></p>
<p>1:15 - 2:35 pm</p>	<p style="text-align: center;">SESSION 4 – Soil Health and Vegetation <i>Moderator: Rose Horton, Otak</i></p> <p>SOILutions for Sustainable Stormwater Management – Kieran Sikdar, WEST Consultants</p> <p>Performance-Based Plant Selection: Developing a Bioretention Plant Selection Tool – Jeremy Person, Bureau of Environmental Services, City of Portland, OR and Ted Shriro, City of Eugene</p> <p>Green Stormwater Research - Ecoroof Systems Comparisons – Tom Liptan, LIVE Center</p>
<p>2:35 -2:50 pm</p>	<p>BREAK</p>

<p>2:50 - 3:45 pm</p>	<p align="center">SESSION 5 – Operations and Maintenance <i>Moderator: Philip Kenyon, Otak</i></p> <p>Stormwater Outfalls - Forgotten Fragments – Josh Wheeler, City of Oregon City</p> <p>Stormwater Needs the Cloud: Optimizing Real-Time Maintenance Sensing in Stormwater Control Measures – Jeremiah Lehman, Contech</p>
<p>3:45 - 4:00 pm</p>	<p>BREAK</p>
<p>4:00 - 5:00 pm</p>	<p align="center">PANEL - Operations and Maintenance Panel <i>Moderator: Tammie Wilson, Clean Water Services</i></p> <p><i>Brad Painter, Roads & Stormwater Supervisor, City of Wilsonville</i> <i>Cristine Inglis, Green Infrastructure Specialist, City of Eugene</i> <i>Steve Curtis, Stormwater/Wastewater Supervisor, City of Beaverton</i> <i>Zoe Schroeder, Green Infrastructure Technician, City of Portland</i></p>
<p>5:00 - 7:00 pm</p>	<p>STUDENT POSTER CONTEST AND HAPPY HOUR (Included w/ Registration) OMSI Riverfront Courtyard</p> <p>View and help judge the posters while enjoying drinks and hors d'oeuvres!</p> <p><i>Adrian Jimenez, Portland State University: Manmade Restoration Canal Effective at Maintaining Lake Habitat</i></p> <p><i>Ali Pardini, Reed College: Heavy metal in the environment: ICP-MS quantified Cu and Zn in Bioswale grown Slough Sedge</i></p> <p><i>Cara Swift, Portland State University: Title TBD: Quantifying Soil Moisture and Runoff Data between Green Roof Plant Species</i></p> <p><i>Cody Brooks, Oregon State University: Using Green Streets in Stormwater Management: A Case Study of Portland, Oregon's Implication</i></p> <p><i>Gus Compton, Reed College: Environmental Sensitivities of Salt Application to the Palmer Snowfield</i></p> <p><i>Jackson Kaye, University of Portland: Permeable Pavements Research</i></p> <p><i>Madalyn Liberman, Oregon State University: Brews, Bites, and Biogas: Transforming Oregon's Culinary Waste into Sustainable Energy Through Anaerobic Digestion</i></p> <p><i>Maya Struzak, University of Portland: Biochar Amended Bioretention Systems for Pollutant Removal</i></p> <p><i>Naia Marten, Reed College: Phytophthora lateralis in the Reed Canyon: An Investigation of the Port-Orford Cedar Die-Off</i></p>

Day 2 – Thursday, September 21, 2023

7:15 - 8:10 am	Continental Breakfast (Provided)
8:10 - 8:15 am	Day 2 Opening Remarks – Adam Lee, Symposium Chair
8:15 - 9:00 am	Stormwater and Climate Change: Impacts, Resources, and Solutions <i>Dr. Anne Thebo, Research Scientist, University of Washington Climate Impacts Group</i>
9:00 - 10:20 am	<p style="text-align: center;">SESSION 6 – Planning and Climate Change <i>Moderator: Brooke Harmon, Maul Foster & Alongi</i></p> <p>WHEN IT RAINS, IT POURS Organizational Learning in the Face of More Extreme Precipitation – John Phillips, Parametrix and Beth Miller, PhD, Good Company A Division of Parametrix</p> <p>The Kitchen Sink Approach: King County International Airport's Stormwater Management – Meredith Cote, AECOM</p> <p>What We Need vs. What We Get: Navigating Multi-use Stormwater Retrofits. – Joshua Owens, Consor</p>
10:20 - 10:35 am	BREAK
10:35 - 11:55 am	<p style="text-align: center;">SESSION 7 – Community Engagement and Education <i>Moderator: Bob Thayne, Mead & Hunt</i></p> <p>A Stormwater Designer Looks at Human Psychology – Bruce Ferguson, Unaffiliated</p> <p>Enhancing Community Livability with Multi-Benefit Stormwater Parks – Jason Bernagros, Jacobs</p> <p>One Water Student Video Contest: Education, Outreach, & Collaboration – Elisabeth O’Keefe, City of Bend, OR</p>
11:55 am - 12:00 pm	<p>Presentation of Student Poster Contest Winners</p> <p>First Place Poster: \$3,000 Second Place Poster: \$2,000 Audience Favorite: \$1,000</p>
12:00 - 1:15 pm	<p>LUNCH (Provided)</p> <p><i>OMSI Riverfront Courtyard</i></p>

<p>1:15 pm</p>	<p>Bike-BMP-n-Brew (B³) Tour (Included w/ Registration) <i>Around Inner Portland</i></p> <p>SE 2nd Place / TriMet Tilikum Crossing Planter <i>Mike Krzeminski, TriMet</i></p> <p>Moody St. Planters <i>Denis O'Brien, Portland BES</i></p> <p>Naito and Columbia BioPod <i>Kathryn Thomason, Oldcastle Infrastructure</i></p> <p>7th and Everett Planters <i>Jeremy Person, Portland BES</i></p> <p>7th and Davis Planters <i>Henry Stevens, Portland BES</i></p> <p>Sandy Green Street <i>Adam Zucker, Zucker Engineering</i></p> <p>5 MLK <i>Shawn Salatino, KPFF</i> <i>Na'ama Schweitzer and Henry Stevens, Portland BES</i></p>
<p>5:00 pm</p>	<p>HAPPY HOUR SOCIAL (Included w/ Registration) <i>Produce Row</i> <i>204 SE Oak St., Portland, OR 97214</i></p>