



ASCE-EWRG & APWA
2017 Sustainable Stormwater Symposium
(Please note this agenda is subject to revisions and modifications)

September 13-14, 2017
Portland, OR

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

Day 1 – Wednesday, September 13, 2017

- 7:30-8:15 am** **Symposium Registration and Continental Breakfast (Provided)**
- 8:15-8:25 am** **Welcome and Opening Remarks** – *Brian Apple, Symposium Chair*
- 8:25-9:10 am** **Giving Credit Where Credit is Due: How USGS Science is Helping Wisconsin MS4s Meet their Pollution Reduction Goals**
William Selbig, Research Hydrologist, U.S. Geological Survey - Wisconsin Water Science Center
- 9:10-10:25 am** **SESSION 1 – Green Infrastructure Design**
Moderator: Maryna Feldberg, Murraysmith
- Analysis of Bioretention Soil Media for Improved Nitrogen, Phosphorus, and Copper Retention** – *Dylan Ahearn and Curtis Hinman, Herrera Environmental Consultants*
- NE 72nd Avenue Green Street** – *Nathan Robinson, Environmental Science Associates*
- Where Does the Water Go? Estimating Groundwater Mounding and Soil Moisture Effects of Stormwater Infiltration** – *Myles Gray, Geosyntec Consultants*
- 10:25-10:45 am** **BREAK**

10:45-12:00 pm

SESSION 2 – Maintenance and the Role of Pretreatment

Moderator: Adam Lee, Herrera Environmental Consultants

Improving Green Stormwater Infrastructure through Pre-treatment –
Josh Lighthipe, KPFF and Tim Kurtz, City of Portland BES

**Bioretention and Planter Facility Maintenance Issues and Adapting
Design with Maintenance in Mind –** *Kate Forester, Herrera Environmental
Consultants and Brendan Addis, Sound Native Plants*

Private Stormwater Facility Inspection- The Good, the Bad and the Ugly
– Nikki Guillot, City of Vancouver- Public Works

12:00 pm

LUNCH (Provided)

1:15-1:55 pm

Getting Out of Your Cave and Other Lessons in Meaningful Collaboration
*Holly Piza, Project Manager, Urban Drainage and Flood Control District, Greater
Denver Area*

1:55-2:45 pm

SESSION 3 – New Paradigms in Stormwater Management

Moderator: Kari Nichols, Mead & Hunt

**Prioritization and Off-Site Mitigation: New Initiatives in Watershed
Restoration –** *Paul Rudwick, Clark County Public Works*

**Broadening the Scope to Increase Resilience: Expanding Stormwater
Management Beyond Regulated Areas –** *Bruce Roll, Clean Water Services*

2:45-3:05 pm

BREAK

3:05-4:20 pm

SESSION 4 – Climate Change Impacts

Moderator: Ryan Sheean, HDR

**Climate Change Impacts to Stormwater Utilities and Public Policy Best
Practices –** *Matt Glazewski and Ron Wierenga, Water Environment Services of
Clackamas County*

**Climate Change Resiliency Planning for Wastewater and Stormwater
Infrastructure –** *Nicholas McCullar, City of Portland Bureau of Environmental
Services*

Hydrologic Modeling for Climate Impacts – *Stephen Blanton, AECOM*

4:20-5:00 pm

SESSION 5 – Municipal Stormwater Program Panel

Moderator: Eric Strecker, Geosyntec Consultants

*Ron Wierenga, Clackamas County Water Environment Services
Annette Griffy, City of Vancouver, Surface Water Program
Wendy Edde, City of Bend, Public Works Department*

Kristen Acock, City of Portland Bureau of Environmental Services

5:00 pm **POSTER SESSION AND HAPPY HOUR at OMSI
(Included w/ Registration)**

Evaluating the Effects of Water Treatment Residuals in Bioretention Systems – *Katie Conkle, Student Researcher, University of Portland*

Assessment of a Mycorrhizal Fungi Application to Treat Stormwater in an Urban Bioswale – *Alaina Melville, Portland State University*

More Posters TBA

Day 2 – Thursday, September 14, 2017

7:15-8:00 am **Continental Breakfast (Provided)**

8:00-8:30 am **Urbanization, Stormwater Runoff, and Climate Change: Will the Salmon Survive?**

Marc Liverman, Willamette Branch Chief, NOAA

8:30-9:20 am **SESSION 6 – Stream and Floodplain Restoration**

Moderator: Tammi Connolly, Otak, Inc.

Channel Restoration to Address Flow-Duration Design Standards – *Melanie Klym, Otak, Inc.*

Floodplain Tools: Complexity and Connectivity – *Marjorie Wolfe, Wolf Water Resources*

9:20-10:10 am **SESSION 7 – Decision Support Tools**

Moderator: Paul Rudwick, Clark County Public Works

Prioritization Tool for Puget Sound – *Christian Nilsen, Geosyntec Consultants*

Developing a Stormwater Retrofit Assessment Tool – *Torrey Lindbo, City of Gresham and Teresa Huntsinger, Otak; formerly with City of Gresham and Portland State University*

10:10-10:30 am **BREAK**

10:30-11:20 am **SESSION 8 – Model Applications**

Moderator: Marc Leisenring, Geosyntec Consultants

The Development and Multipurpose Application of Basin-Wide 1D/2D Stormwater Models in the City of Salem, Oregon – *Erik McCarthy and Hans Hadley, WEST Consultants*

Using LiDAR and two-dimensional (2D) modeling to evaluate flood mitigation alternatives – *Allisa Maxwell and Ryan Retzlaff, Brown and Caldwell and Jeremy Provenzola, City of Gresham*

11:20-11:45 pm U.S. EPA Patrick H. Hurd Sustainability Award Winner

Modeling the Effects of Land Use Change on Flooding in Pacific Northwest Streams to Promote Green Stormwater Infrastructure
Adam Nayak, Student, Cleveland High School

11:45 pm LUNCH (Provided)

1:00 pm Bike-BMP-n-Brew (B³) Tour (Included w/ Registration)
Around Southeast Portland

Multnomah County Building Ecoroof
Matt Burlin, Stormwater System Planning (City of Portland)
GreenRoof Information Thinktank (GRIT) President

Edith Green-Wendell Wyatt Federal Building – LEED Platinum
Charles Brucker, PLA, ASLA, LEED AP
Principal, PLACE

3rd & Lincoln MAX EcoTrack
Marianna Zarkin, PLA, ASLA, LEED GA
Marianna Zarkin Landscape Architects

OHSU Collaborative Life Sciences Building (CLSB) – LEED Platinum
Matt Klym, PE
Otak

Tilikum Crossing Stormwater Planters
Nathan Robinson, PE
Environmental Science Associates
Jenny Lyman, PE
Utility Engineer, TriMet Capital Projects and Construction

SE Division Green Street
Ben Ngan
Principal, Nevue Ngan

5:00 pm HAPPY HOUR SOCIAL (Included w/ Registration)
White Owl Social Club
1305 SE 8th Ave, Portland, OR 97214