



*ASCE-EWRG & APWA  
2012 Sustainable Stormwater Symposium*

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September 19-20, 2012  
World Trade Center, Portland, Oregon

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**Day 1 – Wednesday, Sept. 19, 2012**

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<b>7:30-8:00 am</b>	<b>Symposium Registration and Continental Breakfast (Provided)</b>
<b>8:00 am</b>	<b>Welcome and Opening Remarks</b>
<b>8:15-9:00</b>	<b>Challenges in Green Infrastructure Design and Associated Failure Modes</b> <i>Robert Pitt, PhD, PE, Cudworth Professor of Urban Water Systems, Department of Civil, Construction, and Environmental Engineering, University of Alabama</i>
<b>9:00-10:00</b>	<b>SESSION 1 – Advances in Transportation Runoff Management</b> Moderator: Eric Strecker – Geosyntec Consultants, Inc.  <b>Compost Amended Biofiltration Swale: A New Tool to Remove Dissolved Metals</b> <i>Mark Maurer, Washington State Dept. of Transportation</i>  <b>Stormwater Management along High Traffic Streets: It's Not a Walk in the Park</b> <i>Ivy Dunlap, City of Portland, Bureau of Environmental Services</i>
<b>10:00-10:15</b>	<b>BREAK</b>

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10:15-12:15

**SESSION 2 – Retrofitting Existing Development**

Moderator: Heidi Blischke, GSI Water Solutions

**Retrofitting Stormwater Ponds for Improved Water Quality Performance in Kitsap County, Washington: Techniques, Tools, and Examples for a Wide Range of Retrofit Options**

*Kathryn Skelton, Herrera Environmental Consultants  
and Scott Murphy, Kitsap County*

**Hydrogeologic Evaluation of a Combined GSI and Deep UIC Well Infiltration System for Flow Control – Venema NDS Project, Seattle, Washington**

*Curtis Koger, Jennifer Saltonstall, and Susan Beckham, Associated Earth Sciences, Inc.; Jeff Massie and Masako Lo, Seattle Public Utilities; and Kathy Gwilym, SvR Design Company*

**Storage and Recovery of Rooftop Rainwater Runoff Using Drinking Water Wells**

*David Embleton, GeoRain*

**Private Property Retrofits for Combined Sewer Capacity Relief**

*Josh Robben, City of Portland, Bureau of Environmental Services*

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12:15 pm

**LUNCH (Provided)**

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1:00-1:45

**Mommas Don't Let Your Babies Grow Up to Be Modeling Cowboys**

*Scott Wells, PhD, PE, Department Chair and Professor of Civil and Environmental Engineering, Portland State University*

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1:45-3:15

**SESSION 3 – Model and Database Applications**

Moderator: Alissa Maxwell, OTAK

**Groundwater Protectiveness Modeling, City of Portland UICs**

*Heidi Bilshke, GSI Water Solutions, Inc.*

**Towards Predicting the Occurrence of Geysers and CSOs in Combined Sewer Systems - An Experimental, Theoretical, and Numerical Approach**

*YunJi Choi, Graduate Student and  
Arturo Leon, Ph.D., P.E., Assistant Professor,  
Water Resources Engineering  
School of Civil and Construction Engineering  
Oregon State University*

**BMP Performance Simulation with Empirical Support of the International Stormwater BMP Database**

*Eric Strecker and Marc Leisenring, Geosyntec Consultants*

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3:15-3:30

**BREAK**

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3:30-5:00

**SESSION 4 – Education and Community Involvement**

Moderator: Bill Owen, City of Portland, Bureau of Environmental Services

**Regional Coordination on Private Stormwater Facility Maintenance  
Guidance**

*Dawn Hottenroth, City of Portland, Bureau of Environmental Services  
and*

*Candace Stoughton, East Multnomah Soil and Water Conservation District*

**Students Stewarding Stormwater Bioretention Facilities: Curriculum  
Development and Maintenance Practices**

*Ted Hart, PhD Candidate and Steven Braun, Graduate Student  
Environmental Science & Management, Portland State University*

**Runoff Management in Developing Countries: A Global Perspective**

*Mark Kennedy, Associate Professor of Civil Engineering, University of Portland*

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5:00 pm

**POSTER SESSION AND HAPPY HOUR (Included w/ Registration)**

**Advanced Treatment of Petroleum Hydrocarbons, Carcinogenic  
Polycyclic Aromatic Hydrocarbons, and Arsenic for Discharge to Surface  
Water during Redevelopment of a Contaminated Site**

*Pete Kingston, SoundEarth Strategies*

**Stormwater Retrofits for Urban Stream Protection**

*Doug Wise, City of Vancouver*

**Side by Side Cost Comparison of Low Impact Development and  
Conventional Stormwater Management Facilities**

*Ashley Cantlon, OTAK*

**Hydrogeologic Evaluation of GSI and Deep UIC Well Infiltration Systems  
to Reduce CSO Events, Barton Basin, Seattle, Washington**

*Jennifer Hilden Saltonstall, Associated Earth Sciences, Inc.*

**City of Albany's Approach to Assessing Their Streams and Evaluating  
Protection Measures**

*Atalia Raskin, Cardno*

**New Flow Control Credits for Trees**

*Jen Gillenwater, Wallis Engineering*

**Design Challenges and Solutions for Vegetated Facility Retrofits**

*Ryan Makie, Vigil-Agrimis, Inc.*

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**Day 2 – Thursday, Sept.20, 2012**

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<b>7:30-8:00</b>	<b>Continental Breakfast (Provided)</b>
<b>8:00 am</b>	<b>Session Introduction</b>
<b>8:15-9:00 am</b>	<b>Sustainable Stormwater in Seattle: Moving from Pilot Projects to a Citywide Program</b> <i>Tracy Tackett, P.E., Green Stormwater Infrastructure (GSI) Program Manager, Seattle Public Utilities</i>
<b>9:00-10:00</b>	<b>SESSION 5 – Green Infrastructure Case Studies</b> Moderator: Angela Wieland, Brown and Caldwell  <b>SE Clay Green Street Project: Route to the River</b> <i>Alice Coker, City of Portland, Bureau of Environmental Services</i>  <b>Green Infrastructure Benefits Hydromodification Management</b> <i>Cedomir Jesic, Cardno</i>
<b>10:00-10:15</b>	<b>BREAK</b>
<b>10:15-12:15</b>	<b>SESSION 6 – Stormwater/Watershed Planning</b> Moderator: Paul Worrlein, HDR  <b>The Clark County Stormwater Capital Improvement Program: Flow Restoration Credits and the Path to Sustainable Water Resource Management</b> <i>John Milne, Clark County Department of Public Works</i>  <b>City of Portland Watershed Health Index</b> <i>Mike Rosen, City of Portland, Bureau of Environmental Services, Watershed Division</i>  <b>North Bethany Stormwater Implementation Plan</b> <i>Jadene Stensland, Clean Water Services</i>  <b>Create a Stormwater Utility in the Midst of a Recession: Are You Crazy? A Case Study in Salem, Oregon</b> <i>Robert Chandler, City of Salem Public Works</i>
<b>12:15 pm</b>	<b>LUNCH (Provided)</b>
<b>1:30 – 5:00</b>	<b>Bike-BMP-n-Brew (B<sup>3</sup>) Tour (Included w/ Registration)</b> <i>Around Southwest/Southeast Portland</i>
<b>5:00 pm</b>	<b>Social Hour (Included w/ Registration)</b> Green Dragon 928 SE 9 <sup>th</sup> Avenue, Portland, Oregon