



ASCE-EWRG
2021 Sustainable Stormwater Symposium
(Please note this agenda is subject to revisions and modifications)

September 28-30, 2021

Portland, OR

Virtual Event

Day 1 – Tuesday, September 28, 2021

- 8:40 am** **Welcome and Opening Remarks** – *Ray Lipin, Symposium Chair*
- 8:40-9:20 am** **Keynote: The Ensuing Flood: Increasing Equity and Reducing Impact through Networked Decentralized Infrastructure**
Courtney Crosson, University of Arizona
- Moderator: Jamie Feldman, Geosyntec*
- 9:20-10:40 am** **SESSION 1 – Integrated Watershed Planning and Management**
Moderator: Seth Sokol, Parametrix
- Where Trees and Water Meet in Public Rights-of-Way: An evolution of practice regarding trees in stormwater management facilities**– *Kris Hikari, City of Portland*
- Multi-Agency Water Quality Reserve Program** – *John Howorth, 3J-Consulting*
- Developing and Deploying a One-Water Planning Approach for the Cambie Corridor** – *Brian Busiek, Herrera Environmental*
- 10:40-10:50 am** **BREAK**
- 10:50-12:10 pm** **SESSION 2 – O&M Requirements, Costs, and Tracking for Stormwater Assets**

Moderator: Adam Lee, Herrera Environmental

Considerations for Developing A New Design Storm- *Adam Zucker, Zucker Engineering*

Council Crest Park Neighborhood Sanitary and Stormwater Systems Integrated Planning – *Ian Besaw, City of Portland*

Lifecycle Cost of Grey versus Green Stormwater Infrastructure – *Torrey Lindbo, City of Gresham*

Day 2 – Wednesday, September 29, 2021

8:30-9:10 am **Keynote: How Nutrient Markets Foster Stormwater Innovations**
Dr. William Hunt, North Carolina State University

9:10-10:30 pm *Moderator: Seth Sokol, Parametrix*
SESSION 3 – Hydromodification
Moderator: Philip Kenyon, Otak

Transitioning Urban Streams from ‘Drainage Assets’ to ‘Blue-Green Infrastructure’ – *Joe Rudolph, Wolf Water Resources and Kevin Cook, Murraysmith*

Regional Stormwater Management Strategy for Red Rock Creek – *Kevin Timmins, Otak and Chris Faulkner, Clean Water Services*

Stormwater Management, Green Infrastructure, and Stream Restoration for TMDL Implementation – *Meredith Cote, AECOM*

10:30-10:40 pm **BREAK**

10:40-11:20 am **Keynote: Microplastics in Stormwater: State of Knowledge and a Portland Case Study**
Dr. Jordyn Wolfand, University of Portland

11:20-12:40 pm *Moderator: Tammie Wilson, Clean Water Services*
SESSION 4 – Technological Advances in Sustainable Stormwater
Moderator: Brooke Harmon, Maul Foster & Alongi

Effectiveness of Regional High Rate Biofiltration: case studies in maximizing the value of large-scale green stormwater infrastructure – *Craig Fairbaugh and Benjamin Boice, Contech*

Case Study: Construction of a Deep Drywell to Infiltrate Residential-Area Stormwater into Gravels Beneath Surficial Silts, Gresham, Oregon – *Matthew Kohlbecker, GSI Water Solutions*

Industrial Stormwater Upgrades on an Active Shipping Berth – Ana Tijerina Esquino and Shane Freeman, Mott Macdonald

Day 3 – Thursday, September 30, 2021

8:30-9:10 am **Keynote: Bridging the Gap: Improving Water Quality and Native Habitat WITH our Communities**
Laura Scholl, Metro Blooms
Jennifer Ehlert, Metro Blooms

Moderator: Deniz Varcin, Maul Foster & Alongi

9:10-10:30 pm **SESSION 5 – Green Infrastructure Technology and Practices**
Moderator: Deniz Varcin, Maul Foster & Alongi

Engaging Communities with Living Green Infrastructure– Jennifer Karps, City of Portland

Mosses and Mycelium for Pollinators and Pollution– Kieran Sikdar, West Consultants

Urban Beavers are Cleaning Runoff and Restoring Streams – Katie Holzer, City of Gresham

10:30-10:40 pm **BREAK**

10:40-12:00 pm **SESSION 6 – Stormwater and BMP Monitoring**
Moderator: Chris Hass, Contech

Biochar for Stormwater Management: Applications and Advances – Myles Gray, Geosyntec

Hydraulic Testing to Establish a Target Maintenance Interval – Jay Holtz, Oldcastle and Nina Maas, Herrera Environmental

Sustainable Stormwater Strategies for Highways – John Phillips, Parametrix

12:00-12:05 pm **Closing Remarks & Bike Tour Instructions – Ray Lipin, Symposium Chair**

1:30-5:00 pm **Bike-BMP-n-Brew (B³) Tour (Included w/ Registration)**
(Meet at 1:00) *Around North Portland*

Meet at Twilight Room Parking Lot: 5242 N. Lombard St.

New Columbia Green Streets – Josh Lighthipe, KPFF

Columbia WWTP Green Roof – *Adam Zucker, Zucker Engineering*

Columbia Slough Woody Debris – *Melissa Brown, City of Portland*

Historic Vanport – *Heather McAfee, Clark College and Kevin Severson, MCDD*

Astor School Depave & Rain Garden- *Carrie Nelson – Astor PTSO, Katya Reyna, Depave, and Jennifer D’Avanzo, Greenworks PC and Depave*

University of Portland Rain Garden – *Dr. Cara Poor, University of Portland and Josh Lighthipe – KPFF*

Ward Bluff Overlook/Vigor Shipyard at U of P – *Gordon Erickson, Vigor Industrial*

5:00 pm

HAPPY HOUR SOCIAL (Included w/ Registration) and Poster Session
Twilight Room 5242 N. Lombard St.

Microplastics: the occurrence in stormwater runoff and the effectiveness of bioretention systems for removal
Liz Diaz-Gunning, University of Portland

Five S's of Evaluating Emerging Stormwater Treatment Technologies in Oregon's Wine Country. Field Performance Verification of a membrane filtration system for Basic and Phosphorus Treatment under the Technology Assessment Protocol – Ecology
John Pedrick, Contech