

Conference Schedule at a Glance

TUESDAY August 14		8 AM	9 AM	10 AM	11 AM	Noon	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	7 PM	8 PM
Registration Hours	7:00–5:00													
Opening General Session	8:00–10:00													
Exhibit Hall Hours	10:00–4:30													
Course Schedule			10:30–12:00				1:30–3:00		4:00–5:00					
Luncheon					12:15–1:15									
Afternoon Refreshment Break									3:00–4:00					
Evening Celebration											5:30–8:30			
WEDNESDAY August 15		8 AM	9 AM	10 AM	11 AM	Noon	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	7 PM	8 PM
Registration Hours	7:00–5:00													
Exhibit Hall Hours	9:00–4:30													
Course Schedule	8:30–10:00		10:30–12:00				1:30–3:00		3:30–5:00					
Luncheon					12:15–1:15									
Afternoon Refreshment Break							3:00–3:30							
Exhibits Dismantle											5:00–8:00			
THURSDAY August 16		8 AM	9 AM	10 AM	11 AM	Noon	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	7 PM	8 PM
Registration Hours	7:00–11:00													
Course Schedule	8:00–12:00													
Course Schedule	8:00–12:00													

Conference Course Schedule

Tuesday, August 14

10:30 A.M. – 12:00 P.M.

- Stormwater Infrastructure and BMPs
- Green Infrastructure
- Stormwater Permit Compliance
- Funding, Staffing, and Managing
- Industrial Stormwater Management

1:30 P.M. – 3:00 P.M.

- Stormwater Infrastructure and BMPs
- Green Infrastructure
- Stormwater Permit Compliance
- Funding, Staffing, and Managing
- Research and Testing

4:00 P.M. – 5:00 P.M.

- Stormwater Infrastructure and BMPs
- Green Infrastructure
- Stormwater Permit Compliance I
- Stormwater Permit Compliance II

Wednesday, August 15

8:30 A.M. – 10:00 A.M.

- Stormwater Infrastructure and BMPs
- Green Infrastructure
- Funding, Staffing, and Managing
- Industrial Stormwater Management

10:30 A.M. – 12:00 P.M.

- Stormwater Infrastructure and BMPs
- Green Infrastructure
- Stormwater Permit Compliance
- Funding, Staffing, and Managing
- Research and Testing

(Wednesday cont.)

1:30 P.M. – 3:00 P.M.

- Stormwater Infrastructure and BMPs I
- Stormwater Infrastructure and BMPs II
- Green Infrastructure
- Funding, Staffing, and Managing
- Industrial Stormwater Management

3:30 P.M. – 5:00 P.M.

- Stormwater Infrastructure and BMPs I
- Stormwater Infrastructure and BMPs II
- Green Infrastructure
- Research and Testing

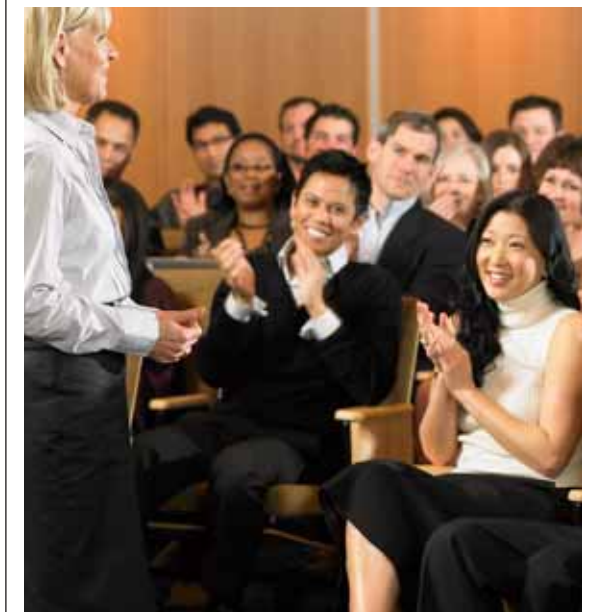
Thursday, August 16

8:00 A.M. – 12:00 P.M.

Fire & Rain: Issues and Concerns Following the Incidence of Wildfires in the Western United States

8:00 A.M. – 12:00 P.M.

A Modern Approach to Compliance



Tuesday 8/14 Conference Courses

Tuesday, August 14
10:30 A.M. – 12:00 P.M.

STORMWATER INFRASTRUCTURE AND BMPs
Mineral Hall D-E

B11 10:30 – 11:00 A.M.
Inspection and Data Gathering Protocol for Monitoring Performance of Biotic Soil Technology
Marc Theisen, Profile Products LLC, Signal Mountain, TN
J.P. Johns, Woolpert Inc., Mount Pleasant, SC

B12 11:00 – 11:30 A.M.
Resiliency Considerations in an Urban Coastal Setting
Hugh Roberts, Arcadis, Helena, MT

B13 11:30 A.M. – 12:00 P.M.
Keeping Tidal Floods in Check in Virginia Beach
Melissa Simpson, WSP, Virginia Beach, VA

GREEN INFRASTRUCTURE
Mineral Hall F-G

G11 10:30 – 11:00 A.M.
Leveraging Technology in the Life Cycle of Green Infrastructure
April Barkasi, Cedarville Engineering Group LLC, Pottstown, PA
Curt Hatfield, Cedarville Engineering Group LLC, Pottstown, PA

G12 11:00 – 11:30 A.M.
Quantifying the Net Present Value Across LID Retrofit Opportunities in Edmonton, Alberta
Eric Bill, Autocase/Impact Infrastructure, New York, NY
Olivia Sparrow, Emmons & Olivier Resources Inc., Oakdale, MN
Brett Emmons, Emmons & Olivier Resources Inc., Oakdale, MN

PERMIT COMPLIANCE
Mineral Hall B-C

P11 10:30 – 11:00 A.M.
Assessing Municipal NPDES Permit Compliance: Pilot Audit Program in Washington State
Rian Sallee, Washington Department of Ecology, Vancouver, WA

P12 11:00 – 11:30 A.M.
Pollutant Reduction Requirements in Pennsylvania: The Unintended Impacts of Regulation
Beth Uhler, Cedarville Engineering Group LLC, Pottstown, PA

P13 11:30 A.M. – 12:00 P.M.
Better Getting to Know Your Permittees Through a Stormwater Grant Program
David Mora, Washington State Department of Ecology, Vancouver, WA

FUNDING, STAFFING, AND MANAGING
Granite Room

S11 10:30 – 11:00 A.M.
Stormwater Fee Management Done SWIFTly!
Monica Day, Northeast Ohio Regional Sewer District, Cleveland, OH
Jill Wu, Raftelis, Cary, NC

S12 11:00 – 11:30 A.M.
Shifting the Mindset: Are You Ready to Sell Your Program for Funding?
Jason Drew, NCE, Stateline, NV

S13 11:30 A.M. – 12:00 P.M.
The Evolution of Stormwater Fees in the United States
Brian Chalfant, University of Pittsburgh, Bakerstown, PA



INDUSTRIAL STORMWATER MANAGEMENT
Mineral Hall A

D11 10:30 – 11:00 A.M.
Industrial Stormwater Permitting: What You Need to Know
Raymond Plummer III, Stantec, Spokane, WA

D12 11:00 – 11:30 A.M.
A New Era in Industrial Stormwater Regulation: Considerations, Strategies, and Lessons Learned for NPDES-Regulated Industrial Dischargers Under the "Exceedance Response Action" Model
Jonathan Meronek, SCS Engineers, Santa Rosa, CA

TUES 1:30 P.M. – 3:00 P.M.

STORMWATER INFRASTRUCTURE AND BMPs
Mineral Hall D-E

B21 1:30 – 2:00 P.M.
After the NOT: What Next?
Anna Griggs, Apex Companies LLC, Charlotte, NC

B22 2:00 – 2:30 P.M.
Establishing Routine Maintenance Areas Using GIS and EnerGov PMM
Andy Kuster, Southeast Metro Stormwater Authority, Centennial, CO

B23 2:30 – 3:00 P.M.
Using Mobile and Cloud Technologies to Centralize and Streamline Your Stormwater Program
Frances Curtis, Apex Companies LLC, Malvern, PA
Rylan Farr, Apex Companies LLC, South Windsor, CT

GREEN INFRASTRUCTURE
Mineral Hall F-G

G21 1:30 – 2:00 P.M.
Regional GSI: A Philadelphia Story
Corey Burns, ISS Management LLC, Ambler, PA
Kate Henry, ISS Management LLC, Ambler, PA

G22 2:00 – 2:30 P.M.
The SEMSWA LID Demonstration Campus: A Suite of Green Infrastructure in One Location
Brad Cox, Southeast Metro Stormwater Authority, Centennial, CO

G23 2:30 – 3:00 P.M.
Discharges Through Groundwater? That Doesn't Sound Like the Clean Water Act!
Richard Davis, Beveridge & Diamond P.C., Washington DC

PERMIT COMPLIANCE
Mineral Hall B-C

P21 1:30 – 2:00 P.M.
Utilizing SARA Modeling Tools to Develop Attainable Contact Recreation Criteria in San Antonio River Basin
Yu-Chun Su, LAN, Houston, TX
Sheeba Thomas, San Antonio River Authority, San Antonio, TX

P22 2:00 – 2:30 P.M.
Management of Construction Stormwater Permits Within Field Permit Coverage Areas for Oil and Gas Operation Within Colorado's DJ Basin
Brad Kieding, Apex Companies LLC, Lakewood, CO

P23 2:30 – 3:00 P.M.
The Art and Science of Estimating the Cost of Erosion Control: The Key to Erosion Control Compliance
Rifka Malik, Sitework Estimating Services, Suffern, NY

FUNDING, STAFFING, AND MANAGING
Granite Room

S21 1:30 – 2:00 P.M.
Using Private Capital to Help the Chesapeake Bay: A Full Delivery Model to Consider to Help Impaired Systems
Troy Anderson, Ecosystem Investment Partners, Baltimore, MD

S23 2:00 – 2:30 P.M.
A Public-Private Partnership Case Study: MLK Transit Oriented Development
*Glen Taffinder, City of Austin, TX
José Guerrero, City of Austin, TX*

RESEARCH AND TESTING
Mineral Hall A

R21 1:30 – 2:00 P.M.
Hydrology Validation and Ground-Truthing in Stormwater Monitoring
*Brandon Slone, Washington State Department of Transportation, Olympia, WA
Brad Archibold, Washington State Department of Transportation, Olympia, WA
Chris Gustafson, Washington State Department of Transportation, Olympia, WA*

R22 2:00 – 2:30 P.M.
Stationarity of the Temporal Distribution of Rainfall
Joseph Wilson, Wilson Hydro LLC, Rolla, MO

R23 2:30 – 3:00 P.M.
Demonstrating the Pollutant Loading From Stormwater Discharge to an Urban River in the Intermountain West Using High-Frequency Data
R. Ryan Dupont, Utah Water Research Laboratory, Utah State University, Logan, UT

TUES 4:00 P.M. – 5:00 P.M.

STORMWATER INFRASTRUCTURE AND BMPs
Mineral Hall D-E

B31 4:00 – 4:30 P.M.
Context Sensitive Design Enabling Stormwater Retrofits
*Bernard Amell, Source2Source Inc., Calgary, AB
Rene Letourneau, City of Calgary, AB*

B32 4:30 – 5:00 P.M.
Stormwater Drainage in a Sinking Environment
Elizabeth Schrandt, Arup, New York, NY

GREEN INFRASTRUCTURE
Mineral Hall F-G

G31 4:00 – 4:30 P.M.
Maximizing Green Infrastructure Performance With Smart Blue Roofs
Kevin Dutt, RainBank Inc., Newton Center, MA

G32 4:30 – 5:00 P.M.
Using Permeable Pavers as a Control Stormwater Measure for Municipal Streets
Kevin Earley, Oldcastle Architectural Inc., Collegetown, PA

PERMIT COMPLIANCE I
Mineral Hall B-C

P31 4:00 – 4:30 P.M.
Washington State Watershed Scale Planning Part I: How Did We Model That?
*Dan Gariépy, Washington State Department of Ecology, Olympia, WA
Emma Trewwhitt, Washington State Department of Ecology, Olympia, WA
Marla Koberstein, Washington State Department of Ecology, Olympia, WA*

P32 4:30 – 5:00 P.M.
Washington State Watershed Scale Planning Part II: What Did We Find?
*Dan Gariépy, Washington State Department of Ecology, Olympia, WA
Emma Trewwhitt, Washington State Department of Ecology, Olympia, WA
Marla Koberstein, Washington State Department of Ecology, Olympia, WA*

PERMIT COMPLIANCE II
Granite Room

P33 4:00 – 5:00 P.M.
A National Review of Innovative and Integrated Stormwater Management Initiatives
*Pinar Balci, NYC Department of Environmental Protection, Flushing, NY
Floren Poliseo, NYC Department of Environmental Protection, Flushing, NY
Sandeep Mehrotra, Hazen and Sawyer, New York, NY
Stephen Sands, Hazen and Sawyer, Charlotte, NC*



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- Removable panel for pipe maintenance
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- Retains pollutants at the street level
- Opens automatically with pressure of water on screen face, and remains closed during the dry season
- Flow directional configuration options available



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United Storm Water, Inc. (USW), in business since 1999, was incorporated by the owners of United Pumping Service who has been a forerunner in hazardous waste transportation since 1970. USW is the largest and most experienced storm water management firm in California with an outstanding level of physical resources and innovative solutions. Our custom-designed treatment control best management practice (BMP) products have been tested and proven to reduce the level of debris, heavy metals and petroleum hydrocarbons in storm water effluent. We are a family-owned minority business enterprise (MBE) headquartered in the City of Industry, California, and we've proudly served private and government entities throughout California as well as out-of-state (e.g., Florida, Hawaii, Louisiana, Maryland, Pennsylvania, and Texas).

Call to Discuss a Pilot Project in Your State

Wednesday 8/15 Conference Courses

Wednesday, August 15 8:30 A.M. – 10:00 A.M.

STORMWATER INFRASTRUCTURE AND BMPs

Mineral Hall D-E

B41 8:30 – 9:00 A.M.
Innovative Structural BMP Management
James Hook, City of San Diego, CA
Andrew Oster, City of San Diego, CA

B42 9:00 – 9:30 A.M.
Innovative Approaches to National Stormwater Asset Management on Private Property
Micah Strauss, OptiRTC and Villanova University, Boston, MA
Toni McCrory, Walmart Stores Inc., Bentonville, AR

GREEN INFRASTRUCTURE

Mineral Hall F-G

G41 8:30 – 9:00 A.M.
A Plan to Assess the Effectiveness of Denver's Green Infrastructure Program
Jon Novick, Division of Environmental Quality, Denver Department of Public Health and Environment, Denver, CO

G42 9:00 – 9:30 A.M.
Denver's Urban Water-Quality Adventure: Challenges of Implementing Ultra-Urban Green Infrastructure in the Arid West
Paul Thomas, Stream Landscape Architecture and Design, Denver, CO
Sarah Anderson, City and County of Denver, Denver, CO
Jim Wulliman, Muller Engineering, Lakewood, CO

G43 9:30 – 10:00 A.M.
The Onondaga County Save the Rain Program: 200 Completed Projects in 10 Years. Lessons Learned and Success Stories
Zachary Monge, CH2M, Syracuse, NY

FUNDING, STAFFING, AND MANAGING

Granite Room

S41 8:30 – 9:00 A.M.
But What Are You Doing About the Owl Habitat?!
Heather Seitz, City of Greeley, CO

S42 9:00 – 9:30 A.M.
WEF SWI Update: The National MS4 Needs Assessment Survey
Rebecca Arvin-Colon, Water Environment Federation, Alexandria, VA

S43 9:30 – 10:00 A.M.
Lessons Learned in Stormwater Monitoring
Mick Bartlett, San Antonio River Authority, San Antonio, TX

INDUSTRIAL STORMWATER MANAGEMENT

Mineral Hall A

D41 8:30 – 9:00 A.M.
Stormwater Management on Industrial Waste Facilities Along Impaired Water Bodies
Nathan Holloway, Clear Water Services LLC, Everett, WA

D42 9:00 – 9:30 A.M.
Use of Porous Pavement to Work Within Site Constraints and Satisfy Multiple Project Objectives
Jody Hughey, Arcadis U.S. Inc., Highlands Ranch, CO

D43 9:30 – 10:00 A.M.
A Practical Approach to Stormwater Management Design for Electrical Substations
David Wang, Hydro One Networks Inc., Toronto, ON

WED 10:30 A.M. – 12:00 P.M.

STORMWATER INFRASTRUCTURE AND BMPs

Mineral Hall D-E

B51 10:30 – 11:00 A.M.
A Road Map to Implementing Stormwater Maintenance Regulations
Pasquale Napolitano, Hydro International, Portland, ME

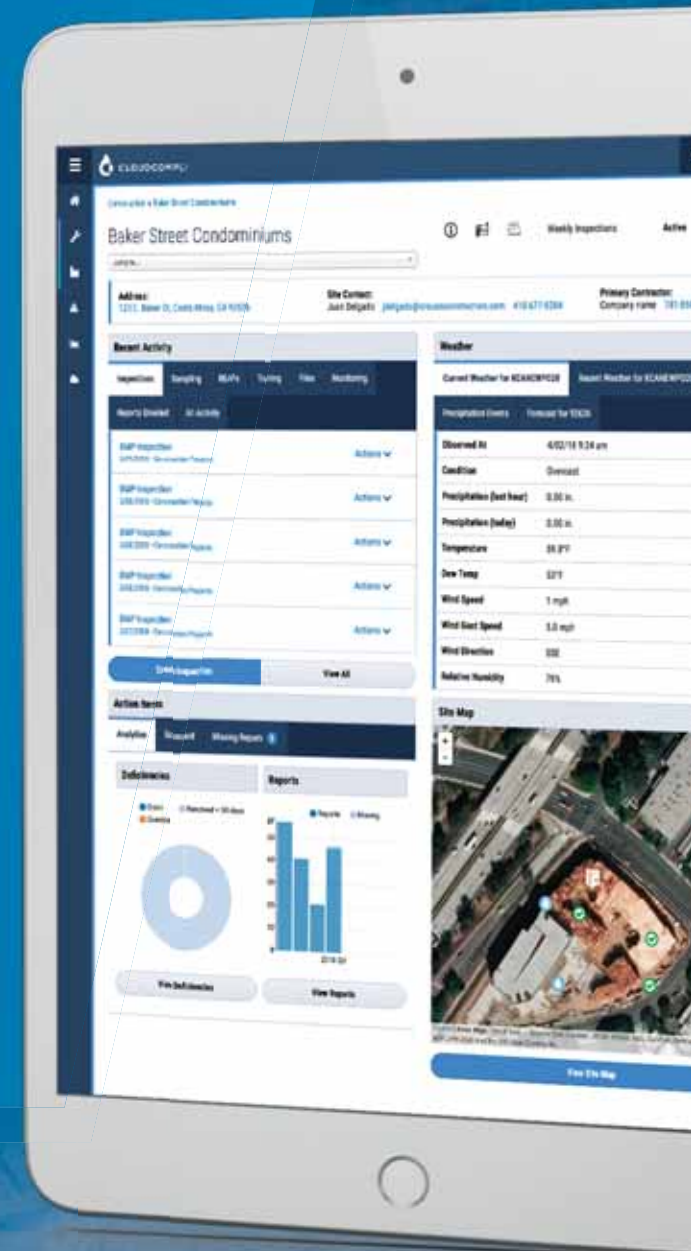
B52 11:00 – 11:30 A.M.
It's Greek to Me! Creating an Effective Owner-Led BMP Inspection and Maintenance Program
Mary Halley, Wood (Amec Foster Wheeler), Knoxville, TN

B53 11:30 A.M. – 12:00 P.M.
Post-Construction BMP List Growing a Mile High
Christopher Dent, Lexington-Fayette Urban County Government, Lexington, KY
Jason Martin, Lexington-Fayette Urban County Government, Lexington, KY
Patrick McFadden, Lexington-Fayette Urban County Government, Lexington, KY

Stormwater Intelligence Platform

Manage Everything, from Inspections to Annual Reports

-  SMART Form Inspection Technology
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-  Weather Automation
-  Integration with other Systems
-  3 Years of Secure Data Archival
-  Drone Integration
-  GIS with Interactive Mapping
-  Compliant Regulatory Workflows
-  MS4 Annual Report Function
-  NOAA.gov Daily Reports
-  Cloud-Based, Access Anywhere
-  Offline Capabilities



Wednesday (cont.)

GREEN INFRASTRUCTURE

Mineral Hall F-G

G51 10:30 – 11:00 A.M.
Blueprint Columbus: Integrated Planning and GI Design Lessons Learned
Bill Landshof, Arcadis, Columbus, OH

G52 11:00 – 11:30 A.M.
Leading Landscape Design Practices for Cost-Effective Green Infrastructure Management
Brian Smith, Federal Highway Administration, Baltimore, MD

G53 11:30 A.M. – 12:00 P.M.
Lake Champlain Nonpoint-Source Pollution Subwatershed Assessment and Management Plan
Beth Gilles, Lake Champlain – Lake George Regional Planning Board, Lake George, NY

PERMIT COMPLIANCE

Mineral Hall B-C

P51 10:30 – 11:00 A.M.
A Tale of Two Cities: Developing a Pollution Prevention Good Housekeeping Program
Noelle Slater, Arcadis, Chesapeake, VA

P52 11:00 – 11:30 A.M.
PPGH Training Adaptations to Reach Municipal Employees Throughout NYC
Lisa Jeffrey, Hazen and Sawyer, Virginia Beach, VA
Jennifer Rodriguez, New York City Department of Environmental Protection, Flushing, NY
Patrick Parault, Arcadis, Long Island, NY

P53 11:30 A.M. – 12:00 P.M.
Archaeological Concerns in Large Storm Erosion Events
Sarah Buchanan, Viridis Environmental, Bowling Green, KY
Darryl Hitch, Viridis Environmental, Bowling Green, KY

FUNDING, STAFFING, AND MANAGING

Granite Room

S51 10:30 – 11:00 A.M.
Taking the Next Step in Strategic Program Management: The Birth and Growth of the City of Fort Worth's Stormwater Management Program
Jennifer Dyke, City of Fort Worth, TX
Greg Simmons, City of Fort Worth, TX

S52 11:00 – 11:30 A.M.
Sugar Land, Texas: Experiences of a Growing MS4
Jason Maldonado, RJN Group, Houston, TX
Hana Harris, City of Sugar Land, TX

S53 11:30 A.M. – 12:00 P.M.
Skagit County's Regional Stormwater Education Partnership: A Success Story!
Kristi Carpenter, Skagit Conservation District, Mount Vernon, WA

RESEARCH AND TESTING

Mineral Hall A

R51 10:30 – 11:00 A.M.
Development of a New BMP: Sand Filter Sidewalk Vaults
Aimee Navickis-Brasch, HDR, Spokane, WA
Taylor Hoffman, HDR, Spokane, WA
Jake Saxon, Spokane County, Spokane, WA

R53 11:00 – 11:30 A.M.
Roadway-Generated Stormwater in Arizona: A Survey
David Mack, Arizona Department of Transportation, Tucson, AZ

WED 1:30 P.M. – 3:00 P.M.

STORMWATER INFRASTRUCTURE AND BMPs I

Mineral Hall D-E

B61 1:30 – 2:00 P.M.
Treatment BMP Options for Organic Contaminants and Bacteria
Nathan Holloway, Clear Water Services, Everett, WA

B62 2:00 – 2:30 P.M.
Biochar, Iron, and Sand Filters to Remove Bacteria and Nutrients in an Urban Watershed
Ed Matthiesen, Wenck Associates Inc., Golden Valley, MN

B63 2:30 – 3:00 P.M.
Alum Treatment of Runoff: An Effective, Low-Cost BMP for Regional Systems
Harvey Harper, Environmental Research and Design, Belle Isle, FL

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Storm Water Retention, Detention, Conveyance & Reuse

Wednesday (cont.)

STORMWATER INFRASTRUCTURE AND BMPs II

Mineral Hall B-C

B64 1:30 – 2:00 P.M.

Nutrient Removal Using Coanda Screens

Steven E. Esmond, Coanda Inc., Irvine, CA
Robert K. Weir, Hydroscreen Co. LLC, Denver, CO

B65 2:00 – 2:30 P.M.

Modeling of On-Stream Detention Ponds: Modified Puls Method vs. Stage-Storage-Discharge

Gabriel Novak, Dowdey, Anderson, & Associates Inc., Plano, TX

B66 2:30 – 3:00 P.M.

Off With the Rule of Thumbs: Rethinking Hydrologic Impacts on Stormwater Infrastructure

Matthew Anderson, Innovyze, Portland, OR

GREEN INFRASTRUCTURE

Mineral Hall F-G

G61 1:30 – 2:00 P.M.

Do You Know Your Outfall From a Hole in the Ground? Essential Value and Place-Making Characteristics for Urban Drainage Infrastructure

Jesse Clark, Stream Landscape Architecture and Design, Denver, CO

Barbara Chongtoua, Urban Drainage and Flood Control District, Denver, CO

Chris Kroeger, Muller Engineering, Lakewood, CO

G62 2:00 – 2:30 P.M.

Green Infrastructure Retrofits in New York City Parks

Chris Syrett, New York City Parks Department, Flushing, NY

G63 2:30 – 3:00 P.M.

Rethinking Stormwater Detention Ponds as an Ecological Commons for Urban Recreation

Erin Riley, North Dakota State University, West Fargo, ND

FUNDING, STAFFING, AND MANAGING

Granite Room

S62 1:30 – 2:00 P.M.

Giving the Green to Build the Green: Lexington's Stormwater Incentive Grant Program

Christopher Dent, Lexington-Fayette Urban County Government, Lexington, KY

S63 2:00 – 2:30 P.M.

Development of Stream Restoration and Water-Quality CIP

Craig Carinci, Fairfax County Department of Public Works and Environmental Services, Fairfax, VA
Emma Gutzler, Fairfax County Department of Public Works and Environmental Services, Fairfax, VA

INDUSTRIAL STORMWATER MANAGEMENT

Mineral Hall A

D61 1:30 – 2:00 P.M.

The Moving Target: Case Study of a Metal Recycler's Proactive Response to Tightening Industrial Stormwater Permit Requirements

Calvin Noling, StormwaterRx, Portland, OR

D62 2:00 – 2:30 P.M.

Passive vs. Active Stormwater Treatment on Waste Facilities: How to Decide?

Kristine Sommer, Clear Water Services LLC, Everett, WA

D63 2:30 – 3:00 P.M.

Removing Zinc From Industrial Roof Runoff

Paul Eger, Global Minerals Engineering LLC, Hibbing, MN

WED 3:30 P.M. – 5:00 P.M.

STORMWATER INFRASTRUCTURE AND BMPs I

Mineral Hall D-E

B71 3:30 – 4:00 P.M.

Fixing What's Always Worked: Going Beyond Relying on Silt Fence

Jake Gentles, Wood Group PLC, Burnaby, BC
Mathew Graham, Wood Group PLC, Burnaby, BC

B72 4:00 – 4:30 P.M.

Where Does All That Sediment Go?!

Daniel March, HDR, Helena, MT

B73 4:30 – 5:00 P.M.

Fast, Effective, and Economical: Asia and Malaysia's First Redirective Solutions

Kwok Wing Leong, CHT - Natural Solutions SDN BHD, Petaling Jaya, Selangor, Malaysia

Faircloth Skimmer®



SURFACE DRAINS FOR SEDIMENT BASINS

- PVC skimmer floats on the surface, releasing the cleanest water
- Replaces perforated risers and stone outlets as the basin's drain
- Drains from the basin's SURFACE instead of the bottom
- Convenient for use in a detention basin as a temporary sediment basin during construction
- Improves basin performance
- 8 sizes available
- Simple, automatic, gravity operation
- Inlet orifice easily adjusted for drawdown requirements
- Works in basins with risers or sediment traps with spillway

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Wednesday (cont.)

STORMWATER INFRASTRUCTURE AND BMPs II

Mineral Hall B-C

B74 3:30 – 4:00 P.M.

Ecosystem Service Benefits of Compost-Based Sustainable Management Practices
Britt Faucette, Filtrex International, Decatur, OH

B75 4:00 – 4:30 P.M.

CDOT Bridge Division and Town of Castle Rock Rehabilitate Six Parallel Large-Diameter Bridge-Supporting CMPs
Brian Culich, AP/M Permaform, Johnston, IA
Charles Loughman, Wilson & Company, Denver, CO

B76 4:30 – 5:00 P.M.

Laguna Niguel, CA: Nature Area Drainage Control with GCCM
Joe Chirbas, Milliken Infrastructure Solutions LLC, Spartanburg, SC
Joe Royer, Milliken Infrastructure Solutions LLC, Spartanburg, SC

GREEN INFRASTRUCTURE

Mineral Hall F-G

G71 3:30 – 4:00 P.M.

Seeing Trees Differently: Incorporating Trees Into Stormwater Management
David Rutter, Ohio Kentucky Indiana Regional Council of Governments, Cincinnati, OH; Charlotte Katzenmoyer, City of Lancaster, PA

G72 4:00 – 4:30 P.M.

The Stormwater Benefits of High-Performance Urban Trees
Jeremy Bailey, GreenBlue Urban, Knoxville, TN

G73 4:30 – 5:00 P.M.

Getting Rain Gardens Built Without Lifting a Shovel: Lessons Learned in Outreach and Education
Susan Bryan, Washtenaw County Water Resources, Ann Arbor, MI

RESEARCH AND TESTING

Mineral Hall A

R71 3:30 – 4:00 P.M.

Identifying Sources of *E. coli* in an Urban Environment
Steve Gruber, Burns & McDonnell Engineering, La Jolla, CA
Nico Cantarero, City of Minneapolis Public Works Department, Minneapolis, MN

R72 4:00 – 4:30 P.M.

Star Trek Water Quality
Drew Ackerman, Black & Veatch, Denver, CO

R73 4:30 – 5:00 P.M.

Does the Rational Method for Estimating Peak Flow Rates Still Work?
William Gonwa, Milwaukee School of Engineering, Milwaukee, WI



Alex Bilginsky



SMART SPONGE® TECHNOLOGIES

AbTech Industries Smart Sponge technologies are used in a variety of systems for stormwater pollution prevention and industrial applications. Three unique versions of Smart Sponge are designed to reduce contaminants including TSS, oil, phosphorus, coliform bacteria and heavy metals.



Smart Sponge technology is changing the way water is treated in your cities and around the world.

Be a part of the SOLUTION.
It all starts with a SMART choice.

The Ultra-Urban® Filter with Smart Sponge is an innovative, low-cost BMP that helps meet NPDES requirements. The filter is simple to install and maintain, and can be easily retrofitted into existing catch basins to reduce targeted pollutants including dissolved phosphorus.

AbTech Industries is a full turnkey supplier of stormwater treatment solutions. For example, our End of Pipe Unit for centralized stormwater management can be applied with any Smart Sponge technologies to meet targeted treatment needs.

Stop by **BOOTH 706** at **StormCon 2018** to see the Ultra-Urban filter's performance and filtration capabilities, pick up Smart Sponge samples and literature, chat with our expert sales staff, and register for a chance to win a HD action camera.

To find out more about smart solutions to stormwater concerns, please visit abtechindustries.com or contact us via email at info@abtechindustries.com.



Thursday, August 16 8:00 A.M. – 12:00 P.M.

Mineral Hall A–B–C8:00 A.M. – 11:00 A.M.

Fire & Rain: Issues and Concerns Following the Incidence of Wildfires in the Western United States

*Mike Harding, Haley & Aldrich
Andrew Earles and Ian Paton,
Wright Water Engineers*

This three-hour course illustrates that fires in the Western US are becoming more frequent and occur over larger areas, with their impacts becoming more severe and costly in terms of property and human lives. Examples of recent fires and the resulting secondary disasters are presented by instructors who have been responsible for post-fire hazard assessment and planning and implementation of mitigation efforts.

What you will learn:

- Why wildfires are year-round occurrences
- How burn severity accelerates erosion and sedimentation immediately after a fire, and how it affects the recovery of the watershed over time
- Post-fire hazards and potential impacts to human health and safety, private property, and public infrastructure
- The suitability of various BMPs for remediation of post-fire issues
- Examples of recent post-fire secondary disasters and lessons that can inform future responses

Mineral Hall D–E–F–G8:00 A.M. – 12:00 P.M.

A Modern Approach to Compliance

The Colorado Department of Public Health and Environment, Water Quality Control Division – Clean Water Compliance Unit provides compliance assistance and assurance services of regulated entities so they can comply with various water-quality-related laws, regulations, and permits that protect public health and the environment. This course, taught by various members of the unit, follows the progress of the state of Colorado Clean Water Compliance Unit as it responds to industry concerns and leverages industry support to obtain additional resources. These resources helped create an alternative compliance model to be used in the construction sector. This new model helps the division increase inspection oversight; focuses the oversight on chronic, significant, and recalcitrant violations; and simultaneously decreases enforcement actions. The division hopes to apply this model to other industries as it continues to prove effective.

This course will cover:

- History of Clean Water Compliance Unit
- Historical inspection numbers and inspection process
- House bill creation and fruition
- Alternative compliance model
- Colorado Stormwater Excellence Program
- Inspection process
- Database and technological inspection tools
- Enforcement
- Training classes and industry outreach
- Future of the program

A new beginning

Wood combines the best of Wood Group and Amec Foster Wheeler to deliver greater operational efficiencies and innovative problem-solving with a broader geographic reach.

Using advanced science and practical approaches, we provide cost-efficient solutions for our customers' stormwater management and green infrastructure challenges. From planning and policy through construction and program management, we are committed to innovative excellence in serving communities and industrial/commercial customers around the world.

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