

# ABSTRACT TITLE GUIDE

**WEDNESDAY, OCTOBER 16** 

## 10:00 AM - Stormwater at the Watershed Scale

The Villanova Room

Moderator: Jeffrey MacKay, MS, PE, CPESC - NTM Engineering, Inc.

Creating a Stormwater Park over an Interstate: Restoring Community Connections with a Highway Cap and Green Infrastructure

T.M. Batroney<sup>1</sup>

HDR Engineering, 301 Grant St. Suite 1700 Pittsburgh, PA1

Stormwater Management Design for Linear Development Projects: Challenges and Lessons Learned S. Carvajal Sanchez (P.E.), B. E. Kelly (P.E.)<sup>1</sup>

Greenman-Pedersen, Inc. (GPI), 1650 Arch Street, Suite 2140, Philadelphia, PA1

Greenways – An Opportunity for Resiliency in a Broader Community Michael Connor<sup>1</sup>

NV5<sup>1</sup>

Watershed-Scale Planning for Urban Water Quality Improvement: Navigating Nuance and Creating Balance with a Diversified Portfolio

Thom Epps<sup>1</sup>

Craftwater Engineering<sup>1</sup>

## 10:00 AM - Communities and Policy

The Cinema

Moderator: Monique Epitropou, PE- Jacobs

Resident perspectives of top-down, municipal-scale, streetside bioretention in China, Sweden, and USA J. Smith<sup>1</sup>, L. Lundy<sup>2</sup>, J. Brooks<sup>1</sup>, G. Blecken<sup>2</sup>, P. Chen<sup>1</sup>, Z. Guo<sup>3</sup>, C. Lundmark<sup>2</sup>, Y.T. Tang<sup>4</sup>, X. Zhang<sup>3</sup>, & R. Winston<sup>1</sup>

The Ohio State University, Columbus, Ohio, United States of America<sup>1</sup>

Luleå University of Technology, Luleå, Sweden<sup>2</sup> Wuhan University, Wuhan, Hubei, People's Republic of China<sup>3</sup> The University of Nottingham Ningbo China, Ningbo, Zhej<sup>4</sup>

Trendspotting: Assessing the First 10 Years of GSI Infiltration Performance in Philadelphia B. Cruice<sup>1</sup>, F. Ebrahimi<sup>2</sup>, T. Heffernan<sup>2</sup>, W. Nichols<sup>2</sup> AKRF, Inc., 530 Walnut Street Suite 998, Philadelphia, PA<sup>1</sup> Philadelphia Water Department, 1101 Market St. 4th Floor, Philadelphia, PA<sup>2</sup>

Clean Water Act Compliance During Wet Weather: Lessons and Recommendations L. Liang<sup>1</sup>, & S. C. Paulsen<sup>2</sup>
Stantec Consulting Services Inc. 1500 Spring Garden Suite 1100, Philadelphia, PA<sup>1</sup>
Exponent, Inc. 1055 East Colorado Boulevard, Suite 500, Pasadena, CA<sup>2</sup>

#### 11:15 AM - The Cutting Edge at PWD

The Villanova Room

**Moderator: William Nichols, PE - PWD** 

Case Study of Repairs to Failed Bioretention Systems
Alan Fody¹
Philadelphia Water Department, 1101 Market St. 4th Floor, Philadelphia, PA¹

What's the Hold Up? Assessing Inlet Conveyance Issues in Philadelphia's Green Stormwater Infrastructure (GSI)

J. Batterton<sup>1</sup>, B. Cruice<sup>2</sup>

Philadelphia Water Department, 1101 Market St. 4th Floor, Philadelphia, PA<sup>1</sup> AKRF, Inc., 530 Walnut Street Suite 998, Philadelphia, PA<sup>2</sup>

Cracking the Code: Developing GSI Analysis Tools with No Formal Training T. Heffernan<sup>1</sup>

Philadelphia Water Department, 1101 Market St. 4th Floor, Philadelphia, PA<sup>1</sup>

Fill it up! Construction-Phase Testing of Fully Lined GSI Systems

M. Avener¹, W. Nichols²

Philadelphia Water Department, 1101 Market St. 4th Floor, Philadelphia, PA¹

Philadelphia Water Department, 1101 Market St. 4th Floor, Philadelphia, PA²

#### 11:15 AM - Soils and Bioinfiltration

The Cinema

**Moderator: Domenic Rocco - PA DEP** 

Soils and Stormwater Management - Practical considerations from the field Russell Losco<sup>1</sup>

West Chester University & Lanchester Soil Consultants, Inc.<sup>1</sup>

Circular Soils: Waste-Based Materials for Green Infrastructure Edward Confair<sup>1</sup>, Pia von Barby<sup>2</sup> AKRF, Inc. 530 Walnut Street, Suite 998, Philadelphia, PA<sup>1</sup> OLIN, 1617JFK Blvd, Suite 1900, Philadelphia, PA<sup>2</sup>



Stormwater Management and Soils - Are we doing any better?
Steve Dadio<sup>1</sup>
Rooted Environmental Solutions<sup>1</sup>

Impacts of de-icing salt loading on nutrient and metal processing in stormwater bioretention A.H. Brown<sup>1</sup>, L.E. McPhillips<sup>1,2</sup>

Department of Civil and Environmental Engineering, Penn State University- University Park, PA<sup>1</sup> Department of Agricultural and Biological Engineering, Penn State University- University Park, PA<sup>2</sup>

## 2:40 PM – Community Impact

The Villanova Room

**Moderator: Edwina Lam – AECOM** 

Growing Resilience: Advancing Green Stormwater Infrastructure in Environmental Justice Neighborhoods Lyndon DeSalvo<sup>1</sup>, James Baney<sup>2</sup>, Carolyn Paone<sup>2</sup> The Nature Conservancy<sup>1</sup>, AKRF<sup>2</sup>

Building an Equitable Stormwater Program for an Environmental Justice Community Aadita (Adi) Pise<sup>1</sup>
HDR, Inc.<sup>1</sup>

Comparing Community Approaches to Flood Mitigation in Pennsylvania M.J. Vanaskie<sup>1</sup>, A. Wilusz<sup>1</sup> HRG, 776 Bull Run Crossing Suite 200, Lewisburg, PA<sup>1</sup>

Little Creek, DE: A Case Study in Coastal Community Resilience E.P. Pleczynski<sup>1</sup>, G.L. Tonn<sup>1</sup> Verdantas, 211 N. 13th Street, Suite 503, Philadelphia, Pennsylvania<sup>1</sup>

Exploring Determinants of Residents' Behavior in Green Stormwater Infrastructure Adoption: An Extension of the Theory of Planned Behavior M. Adib¹, H. Wu²

Department of Landscape Architecture, Penn State University, University Park, State College, Pennsylvania<sup>1,2</sup>

## 2:40 PM – Water Quality

**The Cinema** 

**Moderator: Michael Connor – NV5** 

The Wetlands at Long's Park: The City of Lancaster's Park Enhancement and Water Treatment Project S. Beck<sup>1</sup>, A. Brackbill<sup>2</sup>, A. Lewis<sup>1</sup>, L. Rominger<sup>1</sup>, D. Wible<sup>1</sup> Jacobs, 2001 Market Street, Suite 900, Philadelphia, PA<sup>1</sup> City of Lancaster, 120 N Duke Street, Lancaster, PA<sup>2</sup>

East Branch Chagrin River Restoration for Water Quality and Habitat Improvement B. Long<sup>1</sup>, K. Brewster-Shefelton<sup>2</sup>
Biohabitats Inc., Clipper Park Rd, Baltimore, MD<sup>1</sup>
Chagrin River Watershed Partners, Willoughby, Ohio<sup>2</sup>

## Delaware River Bacteria Study

Kohler<sup>1</sup>, S. Hegde<sup>2</sup>, K. Russek<sup>2</sup>, T. Mittman<sup>3</sup>, V. Thulsiraj<sup>3</sup>, J. Fine<sup>3</sup> Water Center at Penn, 3600 Market Street, Ste 560, University of Pennsylvania, Philadelphia, PA<sup>1</sup> Water Center at Penn, 3600 Market Street, Ste 560, University of Pennsylvania, Philadelphia, PA<sup>2</sup> Michael Baker International, 1818 Market Street, Ste 3110, Philadelphia, PA<sup>3</sup>

Stormwater Quality Treatment: More than Just TSS, TP, and TN Scott A. Brown, PE, D.WRE<sup>1</sup> NTM Engineering, Inc, State College, PA<sup>1</sup>

Environmental Sampling and Analysis of Microplastics – Focus on Stormwater Management Sites Erica Forgione, PhD<sup>1</sup>, Bridget Neumann<sup>1</sup>, Kelly Good, PhD<sup>1</sup> Villanova University, 800 Lancaster Ave, Villanova, PA<sup>1</sup>



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