

POSTER TITLE GUIDE

Poster Session

The Villanova Room 12:45pm (or after lunch) on Wednesday

Modeling the compound effects of subsurface infrastructure and compacted soil on urban flooding M. Aches¹, Y. Joshi¹, Z. Mijic¹, S. E. Clark¹

Three Co-Located GSI and Their Response to Large Storms

A. Amur¹, M. McGauley¹, K. Myers¹, B. Cary¹, B. Wadzuk¹ Dept. of Civil. and Env. Engineering, Villanova University¹

Soil and Landscape Restoration to Prevent Water Quality Degradation: Lessons Learned from a Legal Settlement for Grid-Scale Solar

E. Bast¹, L. Hansplant², M. Adams³ Staff Attorney, PennFuture¹; Landscape Architect and Founding Principal, Studio Sustena²; Water Resources Engineer, Meliora³

A Qualitative Review of Green Stormwater Infrastructure (GSI) Practices: Opportunities for Least Developing Countries

B. Bereded¹, M. Taylor¹, M. Rahman¹, R. G. Traver¹, V. Smith¹ Dept. of Civil. and Env. Engineering, Villanova University¹

Air Mass Partitioning of Historical Weather Station Data to Incorporate Meteorological Principles into Water Resources Engineering

M. J. Burns¹, K. D. Good¹

Dept. of Civil. and Env. Engineering, Villanova University¹

Examining the Performance and Operations of GSI Bioinfiltration Systems in Managing Highway Storm Runoff in an Urban Area - A Case Study of PennDOT I-95 Sites

N. A. S. Dennis¹, S. Kharel¹, E. McCormack¹, M. Palermo¹, G. Zaremba¹, A. J. Hess¹, B. M. Wadzuk¹, R. G. Traver¹

Dept. of Civil. and Env. Engineering, Villanova University¹

Understanding Urbanization's Impact: Flood Hydrograph Analysis in Darby-Cobbs Creek Watershed, Eastwick Philadelphia

M. Eason¹, M. Parvin¹, N. A. Dennis¹

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Using Historical Stormwater Control Measure Performance Data to Predict Behavior Under Climate Change

K. Eimer¹, S. E. Clark¹

Department of Civil, Construction, and Environmental Engineering, Penn State Harrisburg¹

Stakeholder-Driven Resiliency Planning in East Falls and Manayunk

M. Feldman¹, G. McCauley², K. Flynn³, N. Schmidt³

East Falls Development Corporation¹; Manayunk Development Corporation²; AKRF³

Case Study: Design and Construction of Seven Rain Gardens in South Philadelphia: Lessons Learned from the 24th Street Greening Improvements Project

J. Gandara¹, J. Brennan², A. Anderson²

Philadelphia Water Department¹; Hazen and Sawyer, Philadelphia, PA²

Assessing the Efficiency of Different Net Mesh Size for Microplastic Retrieval of Marine Debris in the Chesapeake Bay

B. Iskander¹, S. E. Clark¹, C. Rios², Y. Xie¹

Department of Civil, Construction, and Environmental Engineering, Penn State Harrisburg¹ Department of Communications and Humanities, School of Humanities, Penn State Harrisburg²

Hybrid Solutions for DOT applications for Proactive Road Flooding Alerts

C. Kozora¹

OTT Hydromet¹

Holistic Flood Management and Modeling Under Climate Impacts

L. Liang¹, E. Hersh¹, A. Verdin¹, M. Bartlett¹

Stantec Consulting Services Inc.1

The Importance of Plasticity in GSI Media Selection and Design

C. Marino¹, K. Sample-Lord¹, V. Smith¹

Dept. of Civil. and Env. Engineering, Villanova University¹

Quantifying the Performance of a GSI Network Individually Versus as a Cumulative Series

E. McCormack¹, G. Zaremba¹, R. Traver¹

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Determining how Future Rainfall Years Could be Classified using Extensive Observations

M. McGauley¹, B. Wadzuk¹

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Bioretention Design and Plant Choices to Meet Traditional Water Management and Ecological Objectives

D. Myers¹, B. Wadzuk¹, J. Caplan², A. Hess¹

Dept. of Civil. and Env. Engineering, Villanova University¹; Tyler School of Art and Architecture, Temple University²

Examining Microplastics Occurrence at GSI Sites

B. Neumann¹, V. Smith¹, E. Forgione¹, K. Good¹

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How to Build a Digital Communications Toolkit for Stormwater Management

D. Patterson Grear¹

Princeton Hydro¹

Gray to Green: Roadway Redevelopment and Water Quality

C. L. Reichenbach¹, P. J. Singhofen¹

Streamline Technologies, Inc.1

Ultra-urban, green stormwater infrastructure: a community approach to creating sustainable neighborhoods

M. Rozanski¹

Baltimore Social Environmental Collaborative at Johns Hopkins University¹

An Analysis of the Thermal Effects of Villanova's Constructed Stormwater Wetland

J. Rybnik¹, A. Hess¹, R. Traver¹

Dept. of Civil. and Env. Engineering, Villanova University¹

The Importance of Pretreatment

S. Shiffer, PE1

Ferguson Waterworks¹

How Penn State University Master Watershed Stewards Can Help Municipalities and EACs Inspect Inventory, Assess, and Fix Their Stormwater BMPs

W. Snook¹

PSU Master Watershed Stewards¹

Flood Alert System for Grafius Run - Protecting Lives and Property in Williamsport, Pennsylvania

C. Stoudt¹, K. Hayes¹, G. Motlagh¹, T. Weathers¹, S. Livermore²

WSP USA Earth and Environment, Inc., Blue Bell, PA1; City of Williamsport, Williamsport, PA2



Understanding and Managing Impacts of Solar Farms on Landscape Hydrology: Insights from Field Monitoring and Modeling

R. Yavari Bajebaj¹, L.E. McPhillips^{1,2}, Cibin Raj^{1,2}, Arash Massoudieh³
Department of Civil and Environmental Engineering, Penn State University- University Park, PA¹
Department of Agricultural and Biological Engineering, Penn State University- University Park, PA²
Department of Civil Engineering, The Catholic University of America, Washington, DC³

Equity-Driven Strategies in Community-Based Public-Private Partnerships (CBP3s) for Green Stormwater Infrastructure Development

B. M. Zailani¹, J. G. Hunter¹

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