



# 2023

# Ohio Stormwater Conference

*16th Annual*



Presented by



**May 10-12, 2023**

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# 2023 Ohio Stormwater Conference



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Tinker's Creek Watershed Partners is a non-profit organization whose mission is to increase awareness and build support for the preservation and improvements of water quality, land use, and habitat value throughout the Tinker's Creek watershed.



The Ohio Stormwater Association is a group of public and private citizens dedicated to advancing the management of stormwater and related natural resources through education, leadership, watershed-based coordination, and technical assistance in Ohio. The Ohio Stormwater Association provides educational and networking opportunities for people focused on reducing the negative impacts of stormwater runoff.

## Acknowledgement

A special thank you to all of those who helped plan this event. Thank you to the speakers who have taken their time to present.

We also want to recognize all of our Sponsors and Exhibitors; without their participation this conference would not be possible.

## Get The 2023 Ohio Stormwater Conference App

Attendees with Apple iOS or Android devices are able to personalize their conference experience with our Annual Conference mobile app. Here are just some of the many features:

- Bookmark presentations and events in the conference agenda to create a personalized schedule.
- Preview schedule and speaker bios.
- Sponsor and exhibitor information
- Message other attendees directly, easily access individual message threads, and share contact information to stay connected after the conference.
- Participate in the App Photo Contest and be entered to win a prize!
- Description of all sessions and tracks.

**Photo Contest:** Upload a photo to the app, label with your name and be entered to win a prize!! Photos should be of your "viewing" location for the conference.





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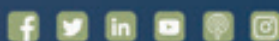
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# Conference Schedule

## Wednesday, May 10, 2023

5:00 p.m. - 5:20 p.m.	Opening
5:20 p.m. - 7:00 p.m.	Keynote Presentations
7:00 p.m. - 9:00 p.m.	Opening Reception

## Thursday, May 11, 2023

8:30 a.m. - 10:00 a.m.	Concurrent Session
10:00 a.m. - 10:30 a.m.	Break - Exhibit Hall
10:30 a.m. - 12:00 p.m.	Concurrent Session
12:00 p.m. - 12:45 p.m.	Lunch
12:45 p.m. - 1:15 p.m.	Exhibit Hall
1:15 p.m. - 2:45 p.m.	Concurrent Session
2:45 p.m. - 3:15 p.m.	Break - Exhibit Hall
3:15 p.m. - 4:15 p.m.	Concurrent Session
4:30 p.m. - 5:30 p.m.	Concurrent Session
5:30 p.m. - 7:30 p.m.	Reception in Exhibit Hall

## Friday, May 12, 2023

8:00 a.m. - 9:30 a.m.	Concurrent Sessions
9:30 a.m. - 10:00 a.m.	Break - Exhibit Hall
10:00 a.m. - 11:00 a.m.	Concurrent Sessions
11:10 a.m. - 12:10 p.m.	Concurrent Sessions



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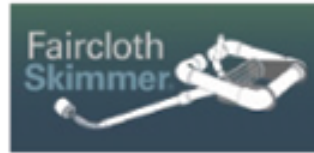




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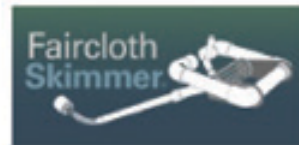
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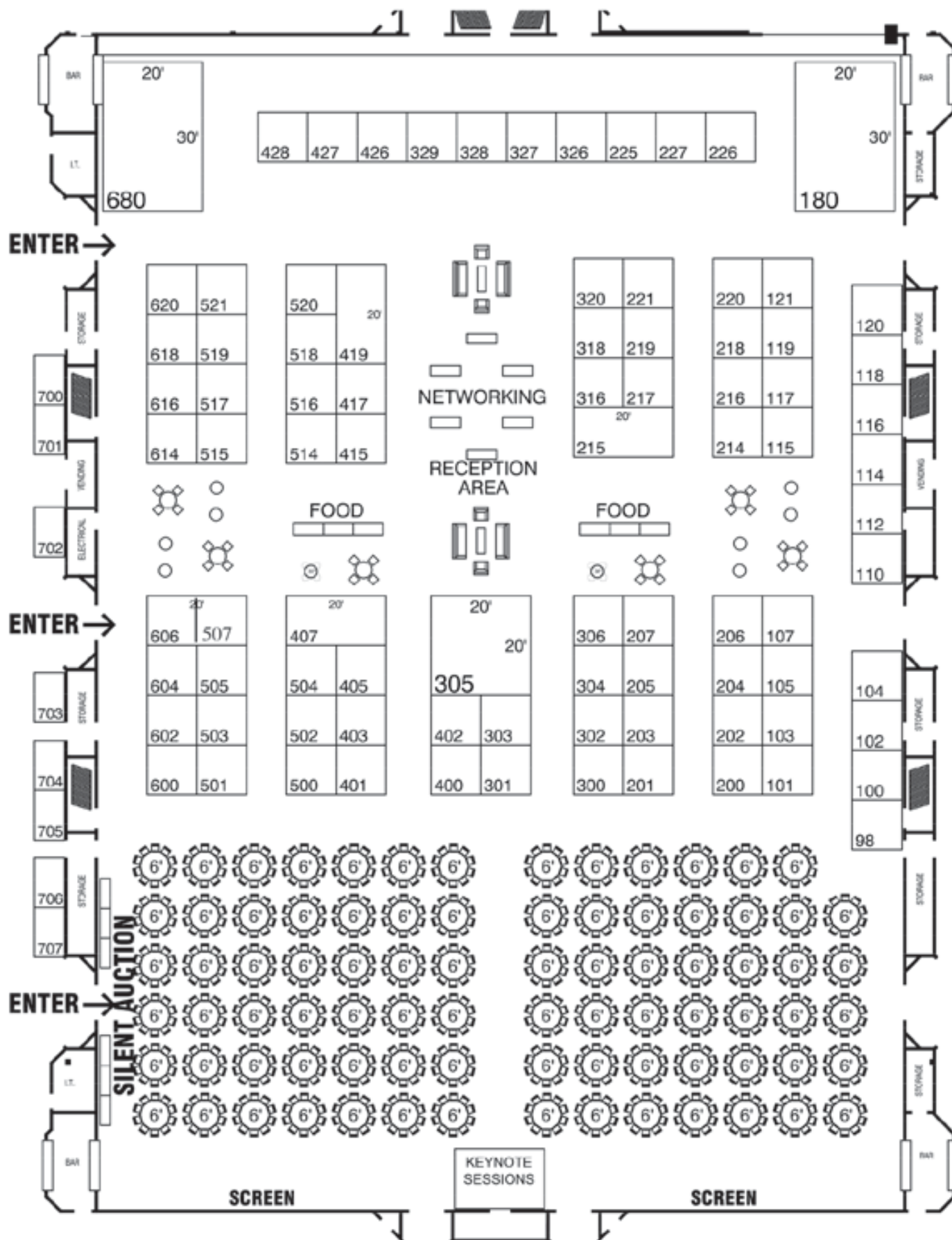
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# Layout of Convention Center



**Orange Room:** Watershed Planning and Restoration

**Nile Room:** Stormwater Practices, BMPs, Planning & Design

**Zambezi Room:** Legal & OEPA Roundtable; Transportation

**Aloeswood Room:** Green Infrastructure

**Rosewood Room:** Monitoring, Inspection, and Maintenance; Stormwater Retrofits

**Zebrawood Room:** Modeling and Research; Industrial



# Conference Planning Committee

## Conference Chair

---

Harry Stark, City of Aurora / Tinker's Creek Watershed Partners - Executive Director / Ohio Stormwater Association

## Planning Committee

---

Ana Burns - Chair, Abstract and Agenda Committee  
Davey Resource Group, Tinker's Creek Watershed Partners  
Ohio Stormwater Association

Jeff Duke  
Raftelis

Jason Fyffe  
Ohio EPA

Dana Hineman  
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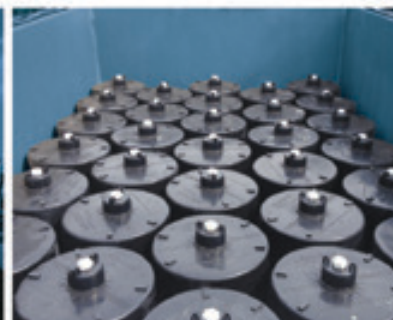


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# Chances To Win!!

---

We are pleased to offer you opportunities  
to win some great prizes at this years conference

This year, we have  
several contests!

1

## PASSPORT

Please follow the directions on your passport book (in packet), visit booths, and enter to win some cool prizes.

2

## GUIDEBOOK APP SCAVENGER HUNT

Open the conference app, go to QR code game, and find QR codes in exhibit booths. Once you've collected them and see the phrase, bring completed form to registration to be entered into for some prizes.

3

## GUIDEBOOK PHOTO CONTEST

The app has the ability to post photos, name the photo with your name and the best photo wins!! The photo can be anything conference related - find something unique.

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- ~ Come to the Registration Booth to purchase a ticket!



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Stone Environmental graciously donated the kayak that is being raffled as part of our fund raiser. We greatly appreciate this donation and Stone Environmental's continued support of the Tinker's Creek Watershed Partners.







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# Keynote Presentation

## Wednesday May 10, 2023

### Conference Welcome and Opening



Harry Stark  
Executive Director

I've been honored to be the Executive Director of the Ohio Stormwater Conference since 2008. It has been a pleasure to meet and work with so many great people who are dedicated to protecting and improving Ohio's abundant natural water resources. The dedication of these individuals is an asset to Ohio.

I would like to thank the planning committee, the numerous sponsors, exhibitors, collaborating partners, and speakers who all have devoted countless hours and resources to make this conference a success. I encourage everyone to visit the sponsors and exhibitors either in-person or virtually over the two-day event for the knowledge, expertise, and products that they bring to share with all of us. Thank you to Ana Burns, Davey Resource Group, who led the development of a strong agenda.

It has been a wonderful experience working with all of the talented people who have volunteered their time in making our conferences a success. I look forward to the years to come to see how this event will continue to grow and expand and bring stormwater management issues to the forefront in Ohio. Thank you.

### Conference Keynote Speaker



Betsy Kling  
Chief Meteorologist & 4-5:30 PM Anchor, WKYC Cleveland

Betsy Kling has won Emmy awards as both Chief Meteorologist and Anchor at WKYC. Born and raised in Northeast Ohio. After graduating from Copley High School she went to Bowling Green State University where she earned her journalism degree with a minor in meteorology. She finished her remaining meteorology coursework through Mississippi State University. Betsy worked in Fort Wayne, Indiana, and Jacksonville, Florida, before coming home in 2003. In 2008 she became Cleveland's first female Chief Meteorologist.

Betsy is part of a small (but growing!) group of women in the country who have earned the prestigious Certified Broadcast Meteorologist (CBM) accreditation from the American Meteorological Society, as well as the Seal of Approval from the National Weather Association (NWA). Betsy was named National Weather Association 2021 Broadcaster of the Year and is the only person to be named Member of the Year twice by the organization.



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- 12 for PE
- CLE Gernerall: 10.0

More information can be found at: <https://ohstormwaterconference.com/ceu-info/>



## CERTIFICATE OF ATTENDANCE

This certifies that:

Has earned \_\_\_\_\_ hours of continuing education credit

*Harry Stark*

Signature

May 12, 2023

Date

The Ohio Stormwater Conference is a three-day conference that provides training and discussions on Best Management Practices for Local Land Use Planning, low impact development, and stormwater management. This conference is relevant to the practice of civil engineering, planning, and landscape design, to partially fulfill Continuing Professional Development (CPD) requirements for Ohio Professional Engineers, EnviroCert Certifications, Surveyors, Certified Planners (AICP), Landscape Architects, and other related professions. The Ohio State Board of Registration for Professional Engineers and Surveyors does not pre-approve CPD courses nor does the board pre-approve CPD providers. Each registrant is responsible to make sure that the courses they take meet the requirements specified in O.R.C. 4733.151. It is the individual's responsibility to provide supporting material as to the sessions and hours attended





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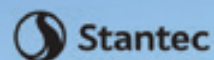
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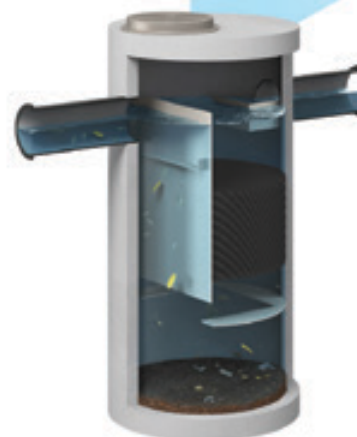
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# Ohio Stormwater Conference Technical Agenda

5:00 - 5:15 pm	Opening - Harry Stark
5:15 - 7:00 pm 2.0 CEU	Keynote Presentation: Betsy Kling, Chief Meteorologist & 4-5:30 PM Anchor, WKYC Cleveland
7:00 - 9:00 pm	Opening Reception - Exhibit Area

	Watershed Planning and Restoration Orange Room	Stormwater Practices, BMPs, Planning & Design Nile Room	Legal & OEPA Roundtable Zambezi Room
8:30- 10:00 am  1.5 CEU	<p>Converting Agriculture Fields to Wetlands in NW Ohio</p> <p>Kevin Grieser, Biohabitats, Inc. Suzanne Hoehne, Biohabitats, Inc.</p> <hr/> <p>An Urban Watershed Story: From Homestead to Habitat</p> <p>Erin Mundorf, Biohabitats, Inc. Elizabeth Hiserk, Cleveland Metroparks</p>	<p>Building a Living Capital Improvement Plan for Warren, Ohio</p> <p>Katherine R. Zodrow, ECO</p> <hr/> <p>Turbulence and Velocity Reduction in Stormwater Quality Structures</p> <p>TJ Mullen, Best Management Products, Inc.</p> <hr/> <p>Mo' Acres, Mo' Problems: Managing Stormwater on Large Solar Sites</p> <p>Kurt Hansen and Val Locker, ECT</p>	<p>Ohio Water Law 101</p> <p>Louis L. McMahon, McMahon DeGulis LLP</p> <hr/> <p>Water Law 102: Basic Legal Issues</p> <p>Louis L. McMahon, McMahon DeGulis LLP</p> <hr/> <p>Legal Hot Topics and Headlines in Stormwater Management</p> <p>Megan E. Goedeker, McMahon DeGulis LLP</p>

**10:00 - 10:30 am Break**  
**Visit Exhibit Hall and see all our Exhibitors!!**

10:30 - 12:00 pm 1.5 CEU	<p>Partners in Community</p> <p>Dr. Erica Matheny, Tinker's Creek Watershed Partners Angela Brodie, Tinker's Creek Watershed Partners</p> <hr/> <p>Innovative Ways to Compete for Unprecedented Funding</p> <p>Wayne Hofmann, Wade Trim AJ Gutz, Wade Trim</p> <hr/> <p>Getting Conservation on the Ground - Grants That Encourage Action</p> <p>Kristin Hall, Cuyahoga SWCD</p>	<p>Mitigating for Impacts to Ohio's Ephemeral Streams</p> <p>Aaron Van Ostran, Stream + Wetlands Foundation</p> <hr/> <p>Rainwater Manual and Construction General Permit Technical Updates</p> <p>Justin Reinhart, Ohio EPA</p>	<p>Ohio EPA Updates and Roundtable</p> <p>Jason Fyffe, OEPA</p> <hr/> <p>Environmental Justice</p> <p>Megan E. Goedeker, McMahon DeGulis LLP</p>
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**12:00 -12:45 pm Lunch**

**12:45 - 1:15 pm Exhibit Hall**

1:15 - 2:45 pm  1.5 CEU	<p>Case Studies on Asset Management Strategies for Stormwater System Planning</p> <p>John Aldrich, CDM Smith</p> <hr/> <p>Aurora Ohio's Stormwater Master Plan and Asset Management Program</p> <p>Laurel Christian, Strand Associates, Inc. Harry Stark, City of Aurora</p> <hr/> <p>The N:P Ratio in Urban Stormwater: Implications for HAB management</p> <p>Ryan Winston, Ohio State University</p>	<p>Designing Infiltration Basins According to the OEPA Stormwater Permit</p> <p>Matt Mace, Advanced Drainage Systems Leroy Wertz, Wertz Geotechnical Engineering</p> <hr/> <p>Climate Change Effects on Rainfall Intensity-Duration-Frequency (IDF) Curves in Town</p> <p>Samir Mainali, Youngstown State University</p>	<p>Ethical Engineers Throughout History</p> <p>Tom Pannett, Kegler Brown Hill + Ritter</p> <hr/> <p>Communicating with the Public on Wet Weather Consent Decrees</p> <p>Louis L. McMahon, McMahon DeGulis LLP</p>
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# Wednesday May 10, 2023

# Thursday May 11, 2023

## Green Infrastructure Aloeswood

Increasing Climate Resiliency with Green Infrastructure and Adaptable Trees

David Gamstetter, Davey Resource Group

Urban Tree Stormwater Systems with Suspended Pavement

Albert Key, Deeproot Green infrastructure, LLC

## Modeling and Research Zebrawood

Urban Stormwater Runoff Characterization in the Lake Erie Watershed

Jay Dorsey and Ryan Winston, Ohio State University

Effects of Chlorides on Macroinvertebrate Communities in Ohio Headwaters

Robert Miltner, Ohio EPA

Comparing a High Flow Media Filter and Bioretention Cell Performance

Kathleen Fast and Ryan Winston, Ohio State University

## Monitoring, Inspection, and Maintenance Rosewood

Biological and Water Quality Monitoring in Ohio's Streams and Rivers

Andrew Phillips, Ohio EPA

Enhancing Stormwater Infrastructure with Asset Management in Columbia, S.C.

Hal Clarkson, Woolpert, Inc.

Hansen and Ryckman Overflow Abatement and Flood Mitigation Project

Michael Cook, Advanced Drainage Systems, Inc.  
Ian Kuchman Advanced Drainage Systems, Inc.  
Neil O'Conner, City of New Albany

BMP Application Of Various LIDs To Reduce Storm Water Run-off

Rajati Dahal, Youngstown State University

Using a HEC-RAS 2D Model to Support Wetland Design

David Anderson, Stantec  
Charles Onyak, NEORS

Modeling Smart Stormwater Controls with EPA SWMM

Dayton Marchese, OptiRTC

Stormwater Asset Management and Master Planning for Jackson, TN

Katie Nolan, Gresham Smith

NE Ohio Source Control Pilot - Technical Results and Lessons

Mark Delisio, P.E., CT Consultants, Inc.  
Brian Shields, P.E. City of Lakewood

Illicit Discharge Detection through Non-dry Weather Screening Activities

Kate Moran, CDM Smith  
Jessica Doty, CDM Smith

Green Infrastructure Assessments for Coastal Resilience

Greg Hoffmann, Center for Watershed Protection  
Lindsey Kerkez, SE Michigan Council of Governments

Using High-Flow Biofiltration to Provide Runoff Reduction

Chris Allen, Contech Engineered Solutions  
John Pedrick, Contech Engineered Solutions

Integrating Climate Change Rainfall Projections into Stormwater Models for Planning

Wilson Shealy and Allison Bowman, 2NDNATURE

Developing a Tool for Standardized Hydraulic Risk Calculations

George Remias, NEORS  
Jocelyn Anleitner, Wade Trim

Overcoming Hurdles of Implementing a Successful Post-Construction Management Program

Aaron Homer, City of Toledo  
Edith Kippenhan, City of Toledo

Utilizing NOAA Precipitation Estimates for Project Rainfall Response

Joe Pavlick, CT Consultants



# Ohio Stormwater Conference Technical Agenda

	Watershed Planning and Restoration Orange Room	Stormwater Practices, BMPs, Planning & Design Nile Room	Legal & OEPA Roundtable Zambezi Room
2:45 - 3:15 pm	<b>Break</b> <b>Visit Exhibit Hall and see all our Exhibitors!!</b>		
3:15 - 4:15 pm  1.0 CEU	After an Extreme Storm: Madison's Approach to Flood Mitigation Planning  Michael Wegner, Brown and Caldwell	Pond + Skimmer = 90% TSS  Jamie McCutchen, Rymar Waterworks Innovations  <hr/> Stormwater Management: Post Construction Stormwater BMPs  Doug McCluskey, Everett J Prescott	Conservancy Districts and Watershed Management  John M. Hoopingamer, McMahon DeGulis LLP
4:15 - 4:30 pm	<b>Break</b>		
4:30 - 5:30 pm  1.0 CEU	Martin's Run Ecological Restoration Project  Kathryn Golden, CPMSM, CFM, City of Lorain Chip Wendt, PWS, CPESC, CESSWI, Coldwater Consulting  <hr/> ABCs of Environmental Constructability  Michael Thompson, Meadville Land Service	Enforcement Escalation: The Requirements Versus The Realities  Brent Eysenbach,, Cuyahoga SWCD Chris Vasco, Cuyahoga SWCD	NUTRIENTS: Important Issues Coming to a Great Lake Near You  Lee A. Slone, McMahon DeGulis LLP  <hr/> Legal Roundtable  Louis L. McMahon, McMahon DeGulis LLP
5:30 - 7:30 pm	<b>HAWAIIAN THEME RECEPTION - EXHIBIT HALL</b>		



# Thursday May 11, 2023

## Green Infrastructure Aloeswood

## Modeling and Research Zebrawood

## Monitoring, Inspection, and Maintenance Rosewood

Chicago Public Schools Space to Grow  
Stormwater Program

Thomas Price, Environmental Consulting &  
Technology, Inc.

Plant Selection for Green Infrastructure

Jason Cooper, Environmental Consulting &  
Technology, Inc.

Understanding Stormwater Control Measure (SCM)  
Sizing and Resilience

Gregory Williams, StormTrap

Exploring Stormwater Management and Environmental  
Conservation Programs Utilizing AmeriCorps National  
Service Members

Northern Ohio Watershed Corps (NOWCorps)  
AmeriCorps Members

2022-23 NOWCorps Members

- Maximilian Bauders – HF&G Arboretum Core & Outer Trails Assistant, Holden Forests & Gardens
- Heather Beukeman – NOWCorps Watershed Steward, Chagrin River Watershed Partners
- Sarah Brunot – NOWCorps Education & Outreach Specialist, Chagrin River Watershed Partners
- Kathryn Burnsworth – NOWCorps Conservation Program & Outreach Assistant, Erie Soil & Water Conservation District
- Cora Crilow – NOWCorps Conservation Program Assistant, Ashland Soil & Water Conservation District
- Melissa Dopirak – HF&G Conservation Specialist, Holden Forests & Gardens
- Blake Erman – Natural Resources Technician, Cleveland Metroparks
- Hannah Goulder – HF&G Core Natural Areas Assistant, Holden Forests & Gardens
- Claire Hardi – NOWCorps Outreach Specialist, Summit Soil & Water Conservation District
- Chynna Ingram – Trails Assistant, Cleveland Metroparks
- Maura Montague – Natural Resources Technician, Cleveland Metroparks
- Isabel Neeley – Field Station Assistant, The University of Akron Field Station
- Julio Olivarez – NEOH CLEB/Restoration Crew Member, The Nature Conservancy
- Julie Olivo – NOWCorps Education/Coordinator, Cuyahoga Soil & Water Conservation District
- Victor Serrano – NOWCorps Outreach Specialist, Lake Soil & Water Conservation District
- Patrick Trauermicht – NOWCorps Community Forestry Specialist, Western Reserve Land Conservancy

Sustainability Goals: Building Soccer Parks One  
BMP at a Time

Sally Gladwell, The Mannik & Smith Group, Inc.  
Joe Fausnaugh City of Toledo

Triple Bottom Line of Green Infrastructure

Jason Bailey, Ferguson Waterworks

Monitoring Sewage Contamination in an Urban  
Watershed Using qPCR Technology

Eric Soehnlén, NEORSD

Building a Robust Post-Construction  
Stormwater Program

Drew Gamble and Vanessa Rainwater,  
Christopher B. Burke Engineering, LLC

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# *Hawaiian Theme Reception*

Join us for our Thursday night  
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5:30 - 7:30 pm

Live entertainment provided by Hawaiian Island Entertainment LLC

Hawaiian Shirt Contest

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# Ohio Stormwater Conference Technical Agenda

	Watershed Planning and Restoration Orange Room	Stormwater Practices, BMPs, Planning & Design Nile Room	Transportation Zambezi Room
<p>8:00 - 9:30 am</p> <p>1.5 CEU</p>	<p>How Climate Change is Impacting the Ohio River Basin</p> <p>Mark D. Kessinger, DLZ National, Inc.</p> <hr/> <p>Optimizing Climate Resiliency and Stormwater Management with Nature-Based Systems</p> <p>Scott B Dierks, GEI Consultants</p>	<p>Why you can't just trust the numbers</p> <p>Jakob Hamlescher, Cuyahoga SWCD</p> <hr/> <p>The Art of LTOM - Crafting Effective Manuals &amp; Agreements</p> <p>Carla Regener and Brent Eysenbach, Cuyahoga SWCD</p>	<p>District DOT Stormwater Retrofits Planning and Design</p> <p>Larry Trout, Jr, Straughan Environmental, Inc. Andrew Sankowski, Straughan Environmental, Inc</p> <hr/> <p>MDOT Infrastructure Protection and Rehabilitation Response to High Lake Levels</p> <p>Craig Hebebrand, Arcadis, U.S., Inc.</p>
9:30 am - 10:00 am	Break - Visit Exhibitors/Sponsors		
<p>10:00 - 11:00 am</p> <p>1.0 CEU</p>	<p>The Historic Bloody Run Swamp Gets an Overdue Transfusion</p> <p>Aaron Van Ostran, Stream + Wetlands Foundation</p>	<p>Hitting a Grand Slam with Public Education</p> <p>Matt McFadden and Jay Mosley, Lucas County Engineer's Office</p> <hr/> <p>Building a Resilient Infrastructure</p> <p>Donald E. McNutt, PE, American Concrete Pipe Association</p>	<p>ODOT Research - Evaluating the Performance Inlet Protection Devices</p> <p>Justin Kerns, ms consultants, inc. Ryan Winston, Ohio State University Alec Grimm, Ohio State University</p>
<p>11:10 - 12:10 pm</p> <p>1.0 CEU</p>	<p>SD1's Comprehensive Bullock Pen Creek Master Plan Achieves Multiple Objectives</p> <p>Chris Rust, Strand Associates, Inc.</p> <hr/> <p>Retrofits: Is existing impervious key to fixing our stormwater problem</p> <p>Derek M. Berg, Contech Engineered Solutions LLC</p>	<p>Hancock County Flood Risk Reduction Program Update</p> <p>David Hayson and Derek Dalton, Stantec Steve Wilson, Maumee Watershed Conservancy District</p>	<p>Transportation Roundtable</p> <p>Mark McCabe, JEO Consulting Group Jon Prier, ODOT</p>



# Friday May 12, 2023

## Green Infrastructure Aloeswood

Green Infrastructure Improvements at Firestone Park

Robert Thompson, Terra Design Studios  
Jim Feath, Herbert, Rowland, and Grubic, Inc.

Comprehensive, Synergistic Stormwater Channel Remediation

Kevin Boyce, American Excelsior

## Industrial Zebrawood

Protecting Critical Infrastructure for future generations – Southerly WWTP Columbus

Chad Boyer, ms consultants, inc.  
Holly Boyer, City of Columbus

Expanding Flocculant Use: What you Need to Know

Kyla J Wood, Applied Polymer Systems, Inc.

## Stormwater Retrofits Rosewood

Floodplain Storage Re-Imagined as a Community Asset

Kelly Kuhbander, Strand Associates, Inc.  
Jeremy Kalb, City of Findlay

Leveraging 2D Modeling in Retrofitting a Flooding Neighborhood

Alex Vieira, Hazen and Sawyer  
Eric Onderak, Coldwater Consultants  
William Glenn, City of Columbus - Dept. of Utilities

Enhancing Soil Infiltration and Reforestation Success with Suburban Subsoiling

Stu Schwartz, University of Maryland Baltimore County  
Josh Phillips, Cleveland Metro Parks

NPDES Qualifications: Lets Get Certified (or not)!

Julie Morelli, Power Engineers, Inc

From Funding to Final Construction: A Holistic Infrastructure Planning Approach

David Bridenstine, OHM Advisors  
Ashley Wadsworth, OHM Advisors

Level of Service Policy for Stormwater Capital Improvement Projects

Miles Hebert, PE, CFM, EMH&T

Implementing Green Infrastructure at Marinas in the Great Lakes

Sarah Orlando, Ohio Sea Grant

Make Data Visualization Work for You to Set Program Priorities

Sarah Maistros, Arcadis

A Discussion of Common Questions about Industrial Stormwater Compliance

Nathan Collier, POWER Engineers

Through Collaboration: Creating Water Quality Solutions for Chester Stormwater Authority

Lauren Van Meter, HDR  
Robert Backman, Stormwater Investment Group, LLC

Benefits of Vegetation in Cleveland Metroparks Brookside Reservation Bioretention Cells

Andrew Tirpak, Ohio State University  
Ryan Winston, Ohio State University  
Jennifer Grieser, Cleveland Meroparks

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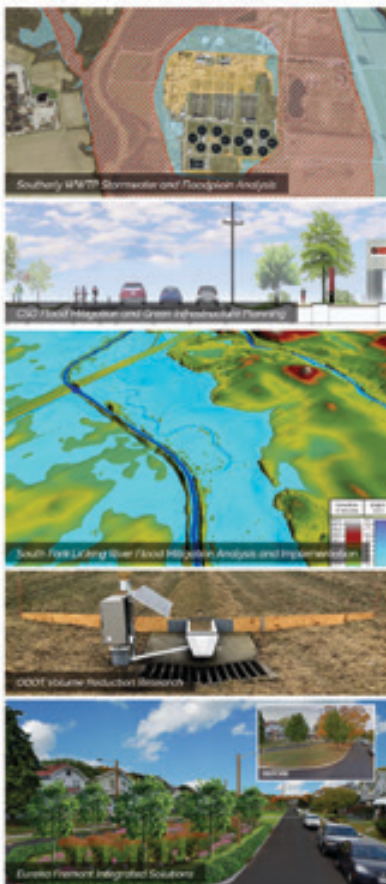
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# Public Utilities

## MEET OUR STORMWATER TEAM:

The City of Toledo, with a population of approx. 260,000 people and a Phase I NPDES Community, lies within two watersheds (Maumee and Ottawa Rivers) that drain to Lake Erie. Under the Department of Public Utilities, the Division of Environmental Services (DES) is one of six divisions that manages core services Toledoans rely on. At DES, we fight for a higher quality of life through balanced, responsible environmental protection, ensuring safe air and water for all citizens in the metropolitan Area. Our Stormwater section manages all stormwater entering our MS4 system, to protect water resources and address water quality by reducing the quantity and improving the quality of stormwater runoff. We take pride in serving as an environmental leader and consultant for other local, state, and federal agencies.



## TEAM MEMBERS:

### Manager:

Abed Semaan

### Chief:

Regina Collins

### Stormwater Coordinator:

Edith Kippenhan

### Senior Environmental Specialists:

Marilyn DuFour, LaShawna Weeks

### Environmental Specialists:

Angela Tucker, Todd Haggard,  
Alexa Vogel, Aaron Homer, Nathanael Semaan

### Environmental Technicians:

Tiffani Petry, Anthony Marino,  
Jennifer Bliss, Dean Bobzean

## 2022 PROGRAM HIGHLIGHTS:

### Public Education and Outreach (PO&E) & Public Involvement and Participation (PI&P)—

62 events reaching almost 3500 people with our partners

### Illicit Discharge Detection and Elimination (IDDE)—

181 inspections and 5 investigations

### Construction Site Runoff Controls—

885 inspections, public and private projects

### Post-Construction Site Runoff Controls—

54 sites inspected and SOP development

### Pollution Prevention and Good Housekeeping—

91 inspections, 37 sites

### Industrial/Commercial Facilities Program—

64 inspections, 64 sites

### Monitoring Requirements—3 river sites monitored



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Williams Forestry & Associates has been providing contract services in the reforestation industry since 1979. We plant over 8 million tree seedlings each season for reforestation, reclamation, mitigation, and

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Contact information can be found on our website at [www.WFAtrees.com](http://www.WFAtrees.com)





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