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2020 Ohio Stormwater Virtual Conference

August 26 - 28, 2020



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2020 Ohio Stormwater Conference



Presented by

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; without their participation this conference would not be possible.

Get The 2020 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:

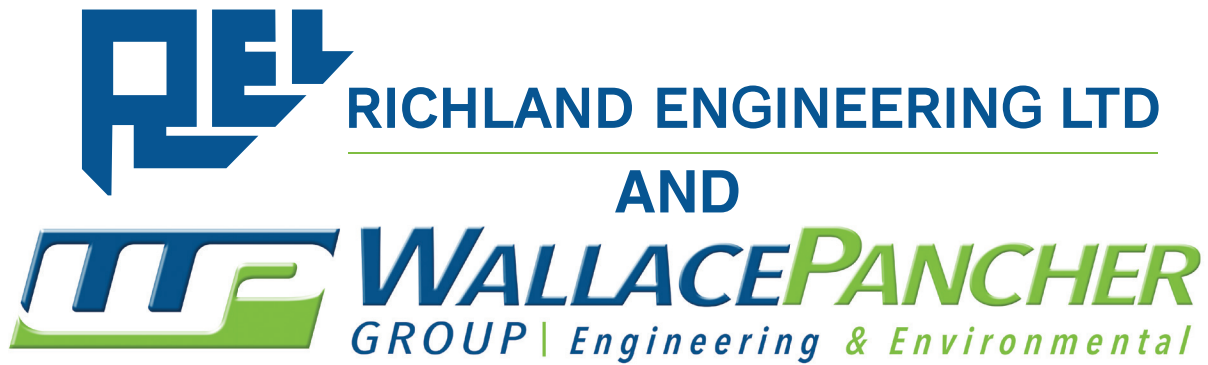
- Bookmark presentations and events in the conference agenda to create a personalized schedule.
- Preview Schedule and Speaker bios.
- Sponsor Information
- Message other attendees directly, easily access individual message threads, and share contact information to stay connected after the conference.
- 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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John Trujillo, Stormwater Coordinator
City of Newark, OH - Phase II MS4



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Conference Schedule

Wednesday, August 26, 2020

8:30 a.m. - 9:20 a.m.	Opening Session / Keynote Speaker
9:30 a.m. - 10:30 a.m.	Concurrent Sessions
10:30 a.m. - 10:45 a.m.	Sponsor Showcases and break
10:45 a.m. - 11:45 a.m.	Concurrent Sessions
11:45 a.m. - 12:30 p.m.	Sponsor Showcases and break
12:30 p.m. - 1:30 p.m.	Concurrent Sessions

Thursday, August 27, 2020

8:30 a.m. - 9:30 a.m.	Concurrent Sessions
9:30 a.m. - 9:45 a.m.	Sponsor Showcases and break
9:45 a.m. - 10:45 a.m.	Concurrent Sessions
10:45 a.m. - 11:00 a.m.	Sponsor Showcases and break
11:00 a.m. - 12:00 p.m.	Concurrent Session
12:00 p.m. - 12:15 p.m.	Sponsor Showcases and break
12:15 p.m. - 1:15 p.m.	Concurrent Sessions
1:15 p.m. - 1:30 p.m.	Sponsor Showcases and break
1:30 p.m. - 2:30 p.m.	Concurrent Sessions

Friday, August 28, 2020

8:30 a.m. - 9:30 a.m.	Concurrent Sessions
9:30 a.m. - 9:45 a.m.	Sponsor Showcases and break
9:45 a.m. - 10:45 a.m.	Concurrent Sessions
10:45 a.m. - 11:00 a.m.	Sponsor Showcases and break
11:00 a.m. - 12:00 p.m.	Concurrent Session
12:00 p.m. - 12:15 p.m.	Sponsor Showcases and break
12:15 p.m. - 1:15 p.m.	Concurrent Sessions

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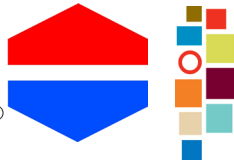


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eNews



From the desk of Katie Johns

On Friday, the January episode of our podcast, Talking Under Water, was released. In the episode, I, along with the other hosts, WWD Managing Editor Bob Crossen and WQP Managing Editor Lauren Del Ciello, talk industry news and share an interview with Nathan Gardner-Andrews of the NACWA on funding. I hope you'll listen and share your thoughts with me.

IN THE NEWS



East Bay Uses Wastewater Treatment Plant to Divert Storm Water



Centralia Stream Team Takes on Storm Water



Ottawa Receives \$500,000 to Separate Sewer Flows

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FEATURED CONTENT



STORM WATER MONITORING EQUIPMENT

Rain in Australia Brings New Risks

Rains in Australia are expected to bring relief for the thousands of firefighters seeking to contain the blazes, which still number more than 100 in New South Wales alone...

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Opening and Keynote Speakers

Opening Speaker



Senator Sherrod Brown
U.S. Senator for Ohio

Since January of 2007, U.S. Senator Sherrod Brown has been a champion of middle-class families in the Senate.

A lifelong Ohioan, Senator Sherrod Brown has spent his career fighting for the Dignity of Work – the idea that hard work should pay off for everyone, no matter who you are, where you live, or what kind of work you do. He has held nearly 500 roundtables across Ohio, because he believes the best ideas don't come out of Washington – they come from conversations with Ohioans.

Senator Brown serves as Ranking Member on the Senate Banking, Housing and Urban Affairs Committee. He also serves on the Finance Committee, the Agriculture Committee, and is the longest serving Ohioan on the Veterans' Affairs Committee.

Sherrod was born and raised in Mansfield, Ohio, where he earned his Eagle Scout award and spent summers working on his family's farm. He is married to author and Pulitzer Prize-winning columnist Connie Schultz. They live in Cleveland, Ohio, with their rescue dogs, Franklin and Walter, drive Jeeps made by union workers in Toledo, and have three daughters, a son, a daughter-in-law, three sons-in-law, and seven grandchildren.

Keynote Speaker



Dr. John Hartig
Detroit Riverfront Conservancy

University of Windsor's Great Lakes Institute for Environmental Research

John Hartig serves on the Board of Directors of the Detroit Riverfront Conservancy and is a Visiting Scholar at University of Windsor's Great Lakes Institute for Environmental Research. For 14 years he served as Refuge Manager for the Detroit River International Wildlife Refuge. John has received numerous awards for his work, including a 2018 Honor Award for Meritorious Service from U.S. Department of Interior, the 2017 Community Peacemaker Award from Wayne State University's Center for Peace and Conflict Studies, the 2016 Edward G. Voss Conservation Science Award from Michigan Nature Association, and the 2015 Conservationist of the Year Award from the John Muir Association. He has authored or co-authored over 100 publications on the environment, including five books: *Waterfront Porch*; *Bringing Conservation to Cities*; *Burning Rivers*; *Honoring Our Detroit River*, *Caring for Our Home*; and *Under RAPs: Toward Grassroots Ecological Democracy in the Great Lakes Basin*. John's recent book titled *Waterfront Porch* won a 2020 Next Generation Indie Book Award in the "nature/environment" category.



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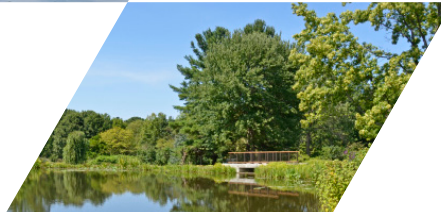


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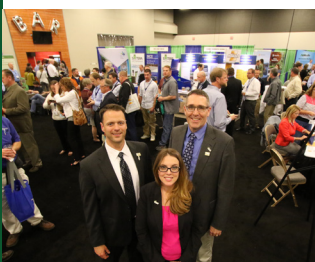
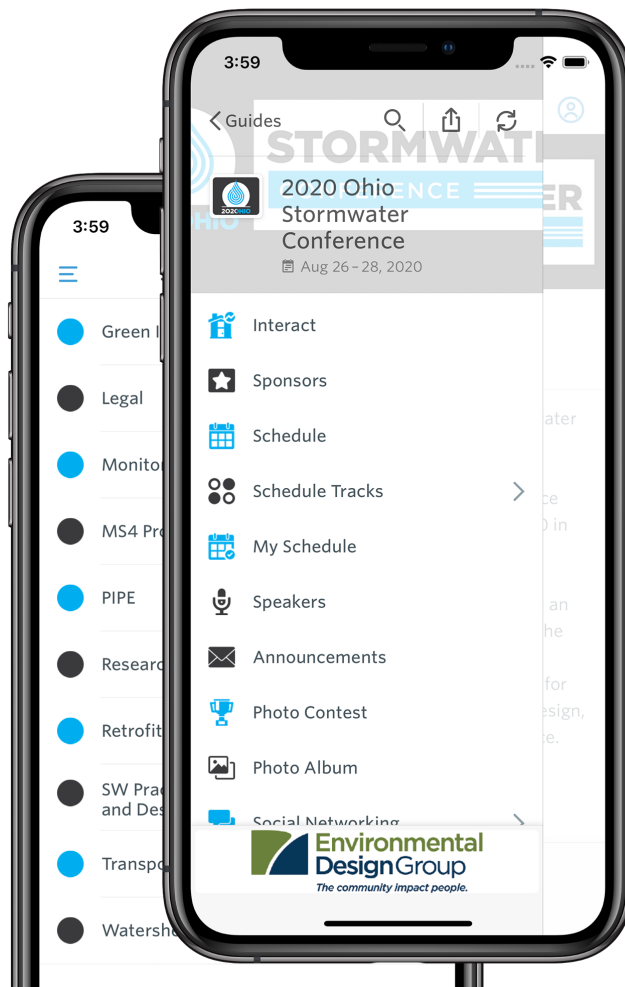


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5

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Once completed, you will be entered into a random drawing to win a \$200 gift card, one for each sponsorship level.

The random drawing will be held on Friday and the winners will be contacted via email.

The contest runs from Wednesday, 8/26/20 8:30 am to Friday 8/28/20 noon.

Thank you to our sponsors for helping support the annual Ohio Stormwater Conference.

We encourage you to visit the sponsor showcases as well.



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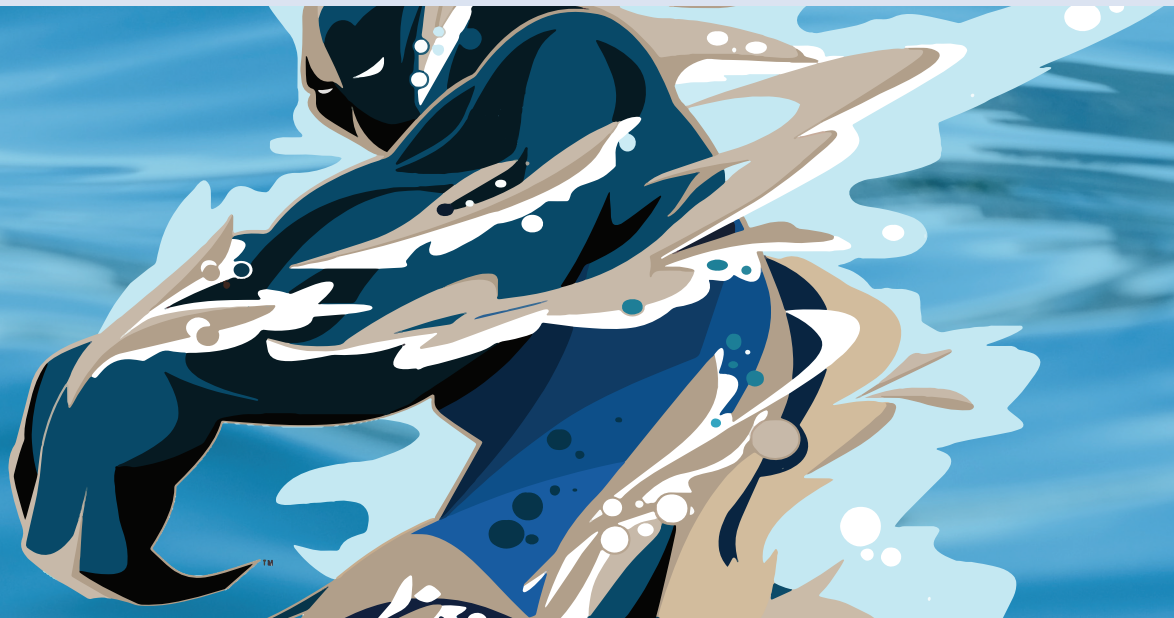
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Nancy Ellwood, CDM Smith

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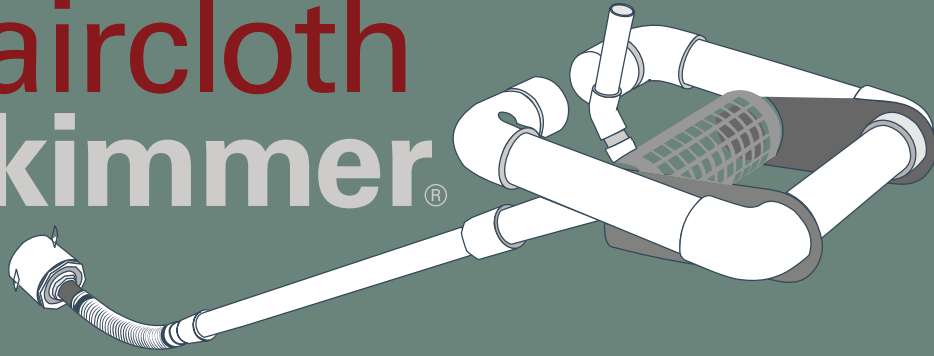
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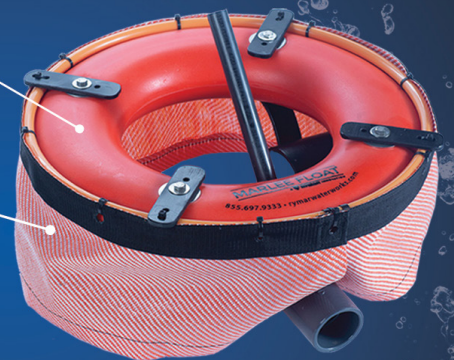
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- Video recordings of presentations will be available for download for Correspondence Course Credits
- Quizzes will be available for Landscape Architecture CEUs and other certifications

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



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Harry Stark

Signature

August 28, 2020

Date

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Ohio Stormwater Conference Technical Agenda

8:30a - 8:40a	Opening Remarks: Harry Stark, Conference Executive Director	
8:40a - 8:45a	Opening Speaker: Senator Sherrod Brown	
8:45a - 9:15a	Keynote Speaker: Dr. John Hartig	
Break		
	Stormwater Practices and BMPs	Green Infrastructure
9:30a - 10:30a 1.0 CEU	Extending the Discussion on Extended Detention Justin Reinhart - Ohio EPA	Green Infrastructure Monitoring through a Cleveland Metroparks-Kent State University Partnership Anne J Jefferson and Lauren Kinsman-Costello, - Kent State University Jennifer Grieser, Cleveland Metropark
10:30a - 10:45a Sponsor Showcases	OTT Hydromet	Environmental Design Group
10:45a - 11:45p 1.0 CEU	Climate Uncertainty: Stormwater Resiliency using Updated Precipitation Frequency Estimates Julie Lawson, Environmental Design Group <hr/> Utilizing Lidar for Stormwater Management Brian Stevens, Woolpert, Inc David Blackstone, OGRIP.	Ecological Benefits of Newly Installed Bioretention Basins David Wituszynski, Ohio State University
11:45a - 12:00p Sponsor Showcases	CleanWay Environmental Partners, Inc.	AQUALIS
12:00p - 12:30p Lunch and Break		
12:30p - 1:30p 1.0 CEU	The Benefits of Using Park Open Space for Stormwater Management Rachael Rhodes, V3 Don Staley, V3	Greening "The Land" for a Consent Decree Demand Kimberly Colich, NEORS Rachel Webb, NEORS

Wednesday August 26, 2020

Watershed Planning and Restoration

It's 9-Elementary, My Dear Watershed

Stephanie Dyer, Eastgate Regional Council of Governments
Christina Znidarsic, Environmental Design Group

Monitoring, Inspection, Maintenance

Flood Prevention using Automated Controls for Weir Gate and Pumping

Scott Morrow, Hazen and Sawyer
Lisa Jeffrey, Hazen and Sawyer

MS4 Program Management

Stormwater Billing – Simple or Not?

Jeffrey Duke, NEORS
Keith Readling, Raftelis

Everett J Prescott

Sandusky Bay Strategic Restoration Initiative Plan – Solving Bay WQ Problems

Tom Denbow, Biohabitats, Inc. Great Lakes Bioregion
Aaron Klein, City of Sandusky

The More the Merrier: Partnering for Restoration at NASA Glenn

Jared Bartley, Cuyahoga SWCD
Pat Nortz, Otisco Engineering Ltd.

NEORS

Advancements in Testing Infiltration (Hydraulic Conductivity) of Green Infrastructure Practices

A.J. Schwidder, Upstream Technologies

Development of Stream Peak Stage Elevation Data Collection Program

Saul Gruzdzys, R2O Consulting

Water Environment Federation

WEF Stormwater Institute's National MS4 Needs Assessment Survey

Rebecca Arvin-Colon, WEF

Collaborative Approaches to MS4 Permit Compliance in Southeast Michigan

Annette DeMaria, Environmental Consulting & Technology Inc.

CT Consultants

Wessler Engineering

Precision Laser and Instrument

Wetland Restoration at the Euclid Creek Dugway Tunnel Storage System

Michael Liptak, Enviroscience Inc.
Sarah Rehner, NEORS

You Don't Know What You Don't Know

Phillip Taylor, Hydro International

Wood Is Good For Restoring Eroding Streambanks

Mark Link, NEORS
Claire Posius, NEORS

Utilizing College Interns to Meet MS4 Requirements

Beth A. Seibert, Allen SWCD
Casey M. Heilman, Allen SWCD

Real-World Issues Experienced by MS4s in Meeting Evolving General Permit Requirements

Nancy Ellwood, CDM Smith

Ohio Stormwater Conference Technical Agenda

	Stormwater Practices and BMPs	Green Infrastructure
8:30a - 9:30a 1.0 CEU	<p>Resilience in Infrastructure</p> <p>Joshua D. Herchl, Advanced Drainage Systems, Inc</p> <hr/> <p>Underground Storage and Pretreatment: Design Methods in Ohio</p> <p>Michael J. Cook, Advanced Drainage Systems, Inc.</p>	<p>Green Infrastructure Improvements in Toledo's Delaware Creek Corridor</p> <p>Jordan Rofkar, Hull & Associates, Inc. Shawna Towns, City of Toledo Division of Environmental Services</p> <hr/> <p>Integration of Artful Stormwater Management at Kingwood Center Gardens</p> <p>Rob Thompson, Terra Design Studios Mark Rufener, K.E. McCartney & Associates, Inc.</p>
9:30a - 9:45a Sponsor Showcases	ADS	Civil & Environmental Consultants
9:45a - 10:45a 1.0 CEU	<p>Green Stormwater Infrastructure Opportunities at Marinas</p> <p>Jay Dorsey, Ohio State University</p> <hr/> <p>Advancing Stormwater Management at Marinas in the Great Lakes</p> <p>Scott Hardy, Ohio Sea Grant Sarah Orlando, Ohio Sea Grant</p>	<p>Delivering Assets And Strengthening Communities: CBP3 for Green Infrastructure</p> <p>Laura Adams, Black & Veatch</p> <hr/> <p>Enhancing an Aging Residential Neighborhood through Green Infrastructure Techniques</p> <p>Craig Cawrse, CT Consultants Mayor William A. Tomko, Village of Chagrin Falls</p>
10:45a - 11:00a Sponsor Showcases	Inland Tarp & Liner	OHM Advisors
11:00a - 12:00p 1.0 CEU	<p>Squires Avenue and City Hall - A Case Study</p> <p>Todd Weik, CBC Engineers and Associates</p>	<p>Permeable Pavement in Northern Ohio: Hydrologic and Water Quality Performance</p> <p>Andrew Tirpak, Ohio State University</p> <hr/> <p>GI: Developing a Universal Framework for Different Cultures and Climates</p> <p>David Gamstetter, Davey</p>
12:00p - 12:15p Sponsor Showcases	Blocksom & Co	POWER Engineers

Thursday August 27, 2020

Watershed Planning and Restoration	Monitoring, Inspection, Maintenance	MS4 Program Management
<p>Good Streams Make Good Neighbors: Enhancing Projects Through Property Acquisitions</p> <p>Kristen Buccier, NEORS Dave Ritter, NEORS</p> <hr/> <p>Dam Removals and Urban River Restoration in Flint, Michigan</p> <p>Jason Kenyon, Wade Trim, Inc.</p>	<p>Effective maintenance practices for restoring permeable pavement infiltration rate</p> <p>Ryan Winston, Ohio State University</p>	<p>Effective Stormwater Program Management: Transitioning from Reactive to Proactive</p> <p>John Lyons, Strand Associates, Inc.</p> <hr/> <p>Using Power BI to Track Cleveland WPC Levels of Service</p> <p>Michael McGlinchy, GPD Group, Inc. Corinne Sackett, Hazen and Sawyer Cecilia Mazzei, Cleveland Div. of Water Pollution Control</p>
Davey Resource Group	The Mannik & Smith Group, Inc.	Rymar Waterworks Innovations
<p>Rocky River Stormwater Masterplan – A Baldwin Creek Case Study</p> <p>Jennifer Zajic, Stantec Michael Blair, NEORS</p> <hr/> <p>Evaluating Flood Solutions in an Urban Setting with Complex Geology</p> <p>Jessie Fears, Geosyntec Consultants</p>	<p>Stormwater Master Plan Support Through GIS Services</p> <p>Kenny Krise, R2O Consulting Joe Pavlick, R2O Consulting</p> <hr/> <p>Urban Land Use Impacts on Stormwater Runoff</p> <p>Ian Simpson, Ohio State University Ryan Winston, Ohio State University</p>	<p>Retrofits</p> <hr/> <p>Adaptive Stormwater Controls for CSO Reduction and Flood Risk Mitigation</p> <p>Dayton Marchese, OptiRTC, Inc.</p> <hr/> <p>How Stormwater Quality Reduces Flooding Dover Ditch Restoration Project</p> <p>Robert Kelly, City of Westlake James Smolik, City of Westlake</p>
Enviroscience	ADS	Wade Trim
<p>Stormwater Management Planning in a Regional Parks System</p> <p>Kayla McRobb, OHM Advisors</p> <hr/> <p>Managing Stormwater - Regionally and Collaboratively</p> <p>Frank Greenland, NEORS</p>	<p>Industrial Stormwater Permit Compliance for Consultants and Engineers</p> <p>Ted Lathrop, StormwaterRx, LLC</p> <hr/> <p>Inspection of Storm and Combined Sewers 100 Years Old</p> <p>Cecilia Mazzei, Cleveland Div. of Water Pollution Control Elizabeth McIlwee, AECOM</p>	<p>Suspended Pavement Systems to reduce CSO overflows in Spokane, WA</p> <p>Albert Key, DeepRoot Green Infrastructure, Inc.</p> <hr/> <p>Optimizing Post-Construction Stormwater Management Outcomes Across Three Sites</p> <p>Brian Ball, City of Mount Vernon Jay Dorsey, Ohio State University</p>
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Ohio Stormwater Conference Technical Agenda

	Stormwater Practices and BMPs	Green Infrastructure
12:15p - 1:15p 1.0 CEU	Biofiltration: Design Considerations for Performance and Longevity Chris Allen, Contech Engineered Solutions Dana Hinaman, Contech Engineered Solutions	Stormwater Green Infrastructure, v.2.0 – An Ecosystem Approach Scott Dierks, GEI Consultants, Inc.
1:15p - 1:30p Sponsor Showcases	ODNR Old Woman Creek	Eurofins TestAmerica
1:30p - 2:30p 1.0 CEU	BMP Stormwater Management on Private Property Joseph R. Reitz, City of Avon Lake	Ohio EPA Roundtable John Matthews, Ohio EPA Jason Fyffe, Ohio EPA



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Thursday August 27, 2020 -continued-

Watershed Planning and Restoration	Research and Modeling	MS4 Program Management
<p>The Value of Design-Build in Ecological Restoration</p> <p>Kevin Grieser, Biohabitats Steve Fabian, Meadville Land Service</p>	<p>Skimmer Sediment Basin Design – Advanced Modeling Workshop</p> <p>Jamie McCutchen, Rymer Waterworks Innovations</p> <hr/> <p>The Shape of Water Storage - The Importance of Geometry</p> <p>Greg Williams, StormTrap</p>	<p>Reducing Yellow Creek Erosion with Stormwater Management and Stream Restoration</p> <p>Bob Hawley, Sustainable Streams, LLC Dave Koontz, Summit County Engineer's Office</p>
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<p>Think Outside the Gabion Box: Holistic Solutions Offer Long-Term Value</p> <p>Mike Blair, NEORSD Dave Gleason, Stantec</p> <hr/> <p>Reconnecting Streams with their Floodplains in the Chagrin River Watershed</p> <p>Kristen Hebebrand, CRWP</p>		<p>Retrofitting Storm Sewers to Reduce the Frequency of Stream Disturbances.</p> <p>Adam Lehmann, Hamilton County Soil and Water District Anne Mikelonis, US EPA</p> <hr/> <p>Using modified BMPs to address nuisance drainage problems in Toledo</p> <p>Andy Stepnick, City of Toledo</p>



Ohio Stormwater Conference Technical Agenda

	Transportation	Green Infrastructure
8:30a - 9:30a 1.0 CEU	Reconstructing I-95 - Green Infrastructure Paves the Way Christian Lynn, AECOM	Innovative Public Outreach Strategies for Integrated Planning Kari Mackenbach, ms consultants Monica Backs, ms consultants <hr/> Multi-Community Collaboration to Reduce Wet Weather Flows through Green Infrastructure Nancy Russell, OHM Advisors Valerie Novaes, OHM Advisors
9:30a - 9:45a Sponsor Showcases	CDM Smith	
9:45a - 10:45a 1.0 CEU	Unique Solutions Post Construction BMPs for Transportation Projects Chad Boyer, ms consultants, inc. <hr/> Southeast Michigan Flooding Study: Assessing Risk & Building Resilience Rachael Barlock, SEMCOG	What if there are no special plants for a rain garden? James Funai, Cuyahoga Community College <hr/> Designing Green Infrastructure with O&M in Mind Carmen Franks, Brown & Caldwell Tiffany Ashforth, Brown & Caldwell Mark Hornyak, NEORS
10:45a - 11:00a Sponsor Showcases		ADS
11:00a - 12:00p 1.0 CEU	Permitting 101: The Difference Between Linear and Sitework Post BMP's Michelle Johnson, Environmental Design Group	The Next Green Wave Katherine Holmok, EDG Ryan Bentley, EDG
12:00p - 12:15p		

Friday August 28, 2020

PIPE

The One Water Campaign for Southeast Michigan

Katherine Grantham, SEMCOG

Research and Modeling

An Archimedean Approach to Time of Concentration Calculations for Hydrology

Ken Kagy, City of Milton

Legal

Ohio Water Law 101

Louis L. McMahon, McMahon DeGulis LLP

Funding Stormwater Management Projects

Erin McDevitt-Frantz, McMahon DeGulis LLP

Biohabitats, Inc.

Thirty Years of the Student Watershed Watch Program

Sara Guiher, Toledo Metropolitan Area Council of Governments

Start with Schools: Stream Restoration & STEM: A Perfect Match

Elizabeth Hiser, Cuyahoga SWCD
Kevin Grieser, Biohabitats

StormTrap

Analysis of Rainfall on Nutrient Levels in Euclid Creek Watershed

MaryAnne Hejna, University of Akron

Assessment of Bioretention Performance for Hydrology and Hydrocarbons

Abigail Tamkin, Ohio State University

Hot Topics in Stormwater Law and Litigation

Christina Wieg, Frost Brown Todd LLC

GPD Group

Ohio Comparative Stormwater Rate Study

Jeff Rowe, Baker Tilly

Mid-Breton Sediment Diversion

Scott Peyton, Stantec

Integrated Storm and Sanitary Sewer Analysis: Basement Backup Success

Joe Pavlick, R2O Consulting

Lakewood's Integrated Plan: Stormwater Modeling Creates Legal Protection

Louis L. McMahon, McMahon DeGulis LLP
Mark Delisio, CT Consultants

Ohio Stormwater Conference Technical Agenda

Stormwater Practices and BMPs

Watershed Planning and Restoration

12:15p - 1:15p

1.0 CEU

Coastal Nonpoint Strategy Development in Ohio

Steve Holland, Ohio Coastal Management Program
Josh Myers, Chagrin River Watershed Partners

Turnkey Water Quality Solutions

Michael Sachs

Ecologically Sustainable Solution to Urban Flooding

Chip Wendt, Coldwater Consulting, LLC
Don Romancak, Lorain County Community
Development Dept.

Watershed-Scale Restoration; Upper Ohio and
Tuscarawas Stream Restoration

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Friday, August 27, 2020 -continued-

PIPE

Ohio Environmental Education Fund Water Quality Education Projects

Ryan Bourgart, Ohio EPA

Reinforcing the Triple Bottom Line: People-Planet-Profits

Julie Morelli, POWER Engineers

Research and Modeling

West Creek - 2D or not 2D

Jesse Rufener, GPD Group
Ivan Valentic, GPD Group

Grassy Creek Stormwater Master Plan Tackles Neighborhood Flooding

Kathleen Smith, Hazen and Sawyer
Lauren Rush, City of Perrysburg

Legal

On Golden Pond? Risk of Liability: Ponds, Dams, and Flooding

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Contact: Mary Atkins



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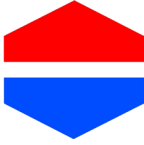
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.216.518.2807

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Contact: Valerie Locker



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Hamilton Soil & Water Conservation District

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513.772.7645

www.hcswcd.org

Contact: Adam Lehmann



HCSWCD is leading a multi-organizational restoration and research effort in the Cooper Creek watershed, the Cooper Creek Collaborative, in which partner organizations are focusing sustained efforts to mitigate the impacts of urban hydrologic alteration on in-stream biology within a 1-mile square mile highly urbanized area, the "Demonstration Watershed". The Storm Sewer Retrofit Project is an ambitious and novel first step in our effort to answer the questions: is it feasible to mitigate the impacts of urban hydrologic alteration on in-stream biology in highly urbanized areas (impervious surface area >40%).

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