



Tentative Agenda

2021 Ohio Storm Water Management & Drainage Virtual Conference March 9-10, 2021

Tuesday, March 9, 2021

12:00 noon

**Introduction and Welcome
Committee Chair**

**12:05pm - 12:55pm
(1.0 CPD)**

**Is There a River Running Through Your Roadway
Budget?***

**Brian Tornes, P.E., Director, Environmental Division
Burgess & Niple**

**Matthew Kestner, GIT, Geologist
Burgess & Niple**

**Betsy Ehler, Client Services Manager
Burgess & Niple**

Is there a river running through your roadway budget? Learn effective streambank stabilization techniques and funding resources that can be used to protect your roadways.

**1:05pm - 1:55pm
(1.0 CPD)**

**BRIC by BRIC – FEMA Invests in Pre-Disaster
Mitigation***

**Kari Mackenbach, CFM, BCES, ENV SP
Director of Sustainability
MS Consultants**

The Building Resilient Infrastructure and Communities (BRIC) program aims to categorically shift the federal focus away from reactive disaster spending and toward research-supported, proactive investment in community resilience. FEMA anticipates BRIC funding projects that demonstrate innovative approaches to partnerships, such as shared funding mechanisms, and/or project design. MS Consultants has submitted several BRIC applications during its inaugural year in 2020 and will provide case studies and information on the best way to apply for these important mitigation funds.

Tuesday, March 9, 2021 (continued)

2:00 - 2:40pm

Exhibitor Showcase

2:50pm – 3:20pm
(0.5 CPD)

**An Alternative to LIDAR: Using
Photogrammetrically Derived 3D Data for Storm
Water Infrastructure***

Charles Staton, Geospatial Engineer
Nearmap

Learn about alternative methods to LiDAR for capturing elevation and 3D information. Learn how you can get updated Imagery, 3D, Elevation, and Artificial Intelligence products every year while cutting costs and time spent waiting on processing and delivery of data.

3:30pm – 4:20pm
(1.0 CPD)

Ten Mile Creek Drainage Improvement Project*
Mike Pniewski, P.E., P.S.

Lucas County Engineer

Stream improvements which included benching for two stage flow, native planting, berming other improvements such as hydraulic characteristics of the channel and lowered flood flows.

Wednesday, March 10, 2021

8:00am – 8:30am

Welcome/Exhibitor Lightning Round

8:30am – 9:20am
(1.0 CPD)

Update on Ohio's Drainage Laws*

Doug Reinhart, P.E., P.S.
Auglaize County Engineer

Hear the latest about Ohio's new drainage law.

9:30am – 10:00am
(0.5 CPD)

**Advanced Surface Delineation for Storm Water
Drainage***

Brian Stevens, CP, GISP
Woolpert

Ohio communities recognize the need for more accurate surface water drainage assessments. Stormwater departments rely on the data not only for utility revenue generation, but also for environmental oversight. While traditional manual calculation methods are time consuming, costly and labor intensive, there is a more time- and cost-effective approach—remotely sensed feature extraction, artificial intelligence and machine learning. The inclusion of the new state of Ohio 3DEP aerial lidar, orthoimagery and advanced algorithms provides communities with precise drainage assessments, ultimately enabling the development and maintenance of accurate stormwater management practices. This presentation will discuss the methods currently used to delineate

Wednesday,
March 10, 2021

(continued)

surface drainage, as well as the advanced technology and algorithms used to automate the process. Additionally, it will review the short- and long-term economic and environmental benefits that can be realized by implementing automated processes. Citing real-world examples from Ohio communities including Franklin County, Toledo, Fairfield County, Hamilton, Butler County and Wilmington, this session will demonstrate the use of the new Ohio 3DEP lidar and its use in delineating surface drainage (perennial, ephemeral and impervious surfaces).

10:00 - 10:30am

Exhibitor Showcase

10:40 – 11:10am
(0.5 CPD)

Updates to Ohio’s MS4 Permit*
John Mathews
Ohio Environmental Protection Agency

11:20 – 11:50am
(0.5 CPD)

H2Ohio – ODNR*
Eric Saas
Ohio Department of Natural Resources
H2Ohio Program Manager

Christina Kuchle
ODNR Northwest Region - Scenic River Manager

The H2Ohio Program at the Ohio Department of Natural Resources is harnessing the power of natural-infrastructure to address Ohio’s water quality issues. In this session, we will explore several examples of current ODNR H2Ohio-funded projects that use the ecosystem services of wetlands to add a water quality benefit to drainage improvement and flood mitigation projects.

12:00 – 12:30pm
(0.5 CPD)

Stabilizing Shallow Landslides Utilizing Innovative Repair Techniques*

Rodney Nuveman, P.E.
Ohio Department of Transportation, District 1

Last year the district had four locations that needed repaired quickly due to the severity of slope failures. ODOT turned to established purchasing contracts to complete the maintenance repairs quickly and efficiently utilizing new and innovative repair methodologies. Projects in this presentation include Putnam County SR 108 2.52 and the Geopier project.

12:30pm

Adjourn

Sessions indicated with an asterisk (*) have been recommended for CPD credit for a maximum of **6.5 CPD hours available. Please note that the final determination of what qualifies for CPD credit ultimately lies between the license holder and the State Board of Registration for Professional Engineers & Surveyors. A certificate for CPDs will be emailed following the conference to attendees who **actively participate** in the session(s) **for the entire time during the live broadcast**. One CPD certificate will be provided per registration in the name of the registered attendee (**separate log-ins/devices necessary for CPD attendees**).*