

# 15<sup>TH</sup> ANNUAL REGIONAL STORMWATER CONFERENCE

# October 7-9, 2020 ONLINE EVENT



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October 7, 2020

Welcome to the Southeast Stormwater Association's 15<sup>th</sup> Annual Regional Stormwater Conference! On behalf of the Association, I want to personally thank you for taking time out of your busy schedule to join us. We recognize that you have a choice and we're so glad you're here!

This Conference and the Association are unique in that they bring together stormwater professionals from throughout the region to collaborate and learn from each other. The conference workshops are prepared and presented by practitioners like you. We are excited to have some of the most talented speakers from across the Southeast who possess a wealth of knowledge on stormwater management, finance, permitting and more. I hope you'll agree that we have put together an outstanding Conference agenda.

A couple of details . . .

- Agenda The Agenda is available online at <u>https://www.seswa.org/2020agenda</u>.
- Live Conference Access the live conference online at <u>https://www.seswa.org/2020live</u>. From the live conference webpage you can select the sessions that are of interest to you and easily navigate between rooms.
- Chat During the live conference we encourage you to talk with your peers through the Chat feature on the Zoom toolbar. Share your comments and thoughts about the presentations and be sure to select "All Attendees and Panelists" before sharing to ensure that everyone can see your comments.
- **Questions** Submit questions for presenters to answer live through the Q&A feature on the Zoom toolbar. Questions are encouraged and are a great opportunity to interact with presenters and further your education.
- **Continuing Education and Evaluations** You will receive an email at the conclusion of each day for which you are registered for the conference. The email will include a link to an online Continuing Education and Evaluation Form. For details visit the CE section in this notebook.
- **Sponsors** SESWA would like to thank all of the Annual Conference Sponsors! We encourage you to contact these sponsors to thank them for their support of SESWA. View sponsors messages on the presentations webpage at <a href="https://www.seswa.org/2020presentations">https://www.seswa.org/2020presentations</a>.
- Conference Materials You can access conference materials including presentations, the conference notebook, sponsor messages and more on the presentations webpage at <a href="https://www.seswa.org/2020presentations">https://www.seswa.org/2020presentations</a>.

I would like to take this opportunity to thank our Conference speakers, sponsors and the Conference and Education Committee members. Their assistance and support make this event possible. We hope you enjoy your time with us!

Scott Hofer, President Southeast Stormwater Association

Scott Hofer, PE President Jefferson County DOH, AL **Cory Rayburn** *Vice President* City of Atlanta, GA **W. Dave Canaan** Secretary- Treasurer Mecklenburg County, NC **Danielle Hopkins** *Executive Director* 



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# 2020 Annual Conference Agenda



SCHEDULE IS SUBJECT TO CHANGE

Wednesday - Thursday - Friday

## Wednesday, October 7, 2020 / Pre-Conference

1:00 p.m. - 3:00 p.m. (Pre-Conference Workshop)

2.0 credits

Separate Registration Required

#### Pre-Conference Workshop - Making the Virtual World Work for Your Needs

The current climate has forced us all to think outside of the box as we adapt to conducting work virtually. Join us as we take a look at providing education, public outreach and employee training virtually and how to include all interested stakeholders. This workshop will review how your colleagues are switching to virtual platforms and share some the lessons they learned along the way.

*Charles Jarman Jr., PE, Water Resources Engineer Clemson Cooperative Extension, SC* 

*Kristen O'Reilly, Water Quality Program Specialist City of Charlotte, NC* 

*Sharnelle Currence, Senior Public Information Specialist City of Charlotte, NC* 

*Spencer Peck, JD, MA, Environmental Policy Specialist City of Atlanta, GA* 

# Thursday, October 8, 2020 / Regular Conference

9:00 a.m. - 10:00 a.m. Welcome & Opening Address

(General Session) 1 credit

## Scott Hofer, President Southeast Stormwater Association

Daniellle Hopkins, Executive Director Southeast Stormwater Association

#### Stormwater Management Regulations – A Southeast Perspective

This session will give you a better understanding of how permitting programs and proposed changes to regulations can impact your jurisdiction. New regulations, programs and their potential impacts will be discussed along with strategies for implementation. Audience questions will be encouraged.

Jeaneanne Gettle, Director Water Division US Environmental Protection Agency, Region 4

Mohammad Jazil, Attorney Hopping Green & Sams

10:00 a.m. - 10:10 a.m. Break in Exhibit Hall

#### 10:10 a.m. - 10:55 a.m. Watershed Asset Prioritization on Condition Assessment and Flood Resiliency

The Dupont-Wappoo (DuWap) watershed is approximately 1,600 acres and located within the City of Charleston. The City conducted an assessment of the existing stormwater infrastructure in an effort to make recommendations for improvements with regard to surface water management. This presentation will review the study, how existing assets were evaluated and how scores were assigned in terms of operational condition and flood resiliency. Find out how this assessment enabled the City to identify critical flooding areas and assign prioritization to projects thereby reducing costs and maximizing benefits.

Pradeep Nagarajan, PE, CFM, Technical Practice Leader AECOM

*Kinsey Holton, PE, Stormwater Program Manager City of Charleston, SC* 

#### 10:10 a.m. - 10:55 a.m. MS4 Audit Success Stories

(Track B) 0.75 credits

(Track A)

0.75 credits

Preparing for and passing an audit is more than receiving a notice of compliance, it's an opportunity to improve your program and ultimately protect receiving waters. In this session attendees will hear from fellow MS4 permittees who will share what to expect before, during and after an audit to better prepare for and get the most out of the experience.

Crystal Bishop, CPMSM, QHP, Program Manager Hamilton County, TN

John Butler, Water Resources Outreach Manager Gwinnett County, GA

*Lisa Kirby, PE, CFM, Director of Engineering City of Greenville, NC* 

Daryl Norris, PE, CFM, CPSWQ, Civil Engineer II - Stormwater City of Greenville, NC

10:55 a.m. - 11:05 a.m. Break in Exhibit Hall

(Track A) 0.75 credits	In 2016, the small town of Nichols, South Carolina, was nearly wiped off the map when Hurricane Matthew caused devastating flooding across eastern South Carolina, and again in 2018 due to Hurricane Florence. This presentation will explain why Nichols saw such historic rain events so closely together, as well as what the town can do to protect itself in the future. <i>Crystal Muller, PE, Engineer Project Manager</i> <i>Woolpert</i>
<b>11:05 a.m 11:50 a.m.</b> ( <i>Track B</i> ) 0.75 credits	<b>FDOT - Innovative MS4 Program Initiatives</b> To meet the challenges of a rapidly growing population and to fulfill its mission to provide a safe transportation system that preserves the quality of Florida's environment, the Florida Department of Transportation (FDOT) has developed innovative approaches to stormwater management, asset maintenance, and environmental stewardship. Learn about FDOT's unique strategies for MS4 permit implementation.
	Steven Peene, PhD, Principal Applied Technology & Management
11:50 a.m 12:50 p.m.	Lunch Break
<b>12:50 p.m 1:35 p.m.</b> ( <i>Track A</i> ) 0.75 credits	<b>Re-Wilding Streams and Floodplains to Enhance Ecosystem Services</b> Streams and floodplains are important components of developed landscapes that can provide many benefits and services to communities. The process of re-wilding streams and floodplains can greatly enhance ecosystem services by reintroducing natural elements to the stream corridor. This presentation describes the process and outcomes of re-wilding urban streams and floodplains, including daylighting piped streams, stream channel realignment and floodplain reconnection, removal of barriers to aquatic organism passage, and more. <i>Greg Jennings, PhD, PE, President Jennings Environmental</i>
<b>12:50 p.m 1:35 p.m.</b> ( <i>Track B</i> ) 0.75 credits	Rock Hill, South Carolina - A Proactive Stormwater ProgramThe City of Rock Hill, South Carolina completed a city-wide watershed modeling initiative with the primary goals of identifying flood prone areas upstream from FEMA regulated streams and creating a prioritized Capital Improvement Project program. This presentation will review how proactive watershed modeling can not only be used to identify flooding, it can also effectively regulate new development and enhance the ability to leverage low interest loans and grant funding.Stephen Sands, PE, Senior Associate Hazen and SawyerDavid Dickson, PE, Stormwater Manager City of Rock Hill, SC
1:35 p.m 1:45 p.m.	Break in Exhibit Hall
<b>1:45 p.m 2:30 p.m.</b> (Track A) 0.75 credits	Implementing Beaver Dam Analogs in Atlanta's Nancy Creek Watershed The Blue Heron Nature Preserve Beaver Dam Analog (BDA) project is a restoration project located in Atlanta, Georgia. With assistance from a 319(h) grant, Atlanta developed an innovative

approach using a series of BDAs and Post-Assisted Log Structures to facilitate "low-tech" processbased restoration of an incised stream and wetland. This presentation highlights the lessons learned from implementing this type of grassroots, restoration approach in an urban setting with an interdisciplinary team.

*Glen Behrend, PE, Civil Engineering Manager City of Atlanta, GA* 

*Ty Smith, PE, Principal Engineer Hazen and Sawyer* 

#### 1:45 p.m. - 2:30 p.m. Establishing Citywide Watershed Master Plan to Deliver Flooding Solutions

(Track B) 0.75 credits

(Track A) 0.75 credits This presentation will highlight the City of Fayetteville, North Carolina's efforts in developing a comprehensive framework that can then be utilized to identify and address stormwater infrastructure needs throughout the City. This framework provides a proactive approach that includes a robust geodatabase and integrates their long-range growth and development plans.

Sheila Thomas-Ambat, PE, CCM, CFM, Public Services Director City of Fayetteville, NC

Edward Dickson, PE, CFM, Senior Project Manager Freese and Nichols

2:30 p.m. - 2:40 p.m. Break in Exhibit Hall

#### 2:40 p.m. - 3:25 p.m. Stream Bank Repair: New Opportunities to Address Water Quality Concerns

Clemson Extension has a new statewide Stream Bank Repair program to address the health of riparian areas along small streams. This can benefit water quality and assist with NPDES permit compliance. This presentation will share how the workshops focus on knowledge and technical skills needed for stream bank repair without the cost and permitting requirements of stream restoration.

Katie Altman, Water Resource Agent Clemson Extension, SC

Karen Jackson, Water Resource Agent Clemson Extension, SC

#### 2:40 p.m. - 3:25 p.m. Keeping Up with the Times - 2D's Role in Modernizing Drainage Study Program

(Track B) 0.75 credits The Town of Hilton Head Island, South Carolina is midway through the build-out phase of a comprehensive Island-wide, stormwater inventory and modeling program. Recent advances in 2D hydrologic and hydraulic modeling are being incorporated as new watersheds are studied, all while keeping earlier watershed studies comparable in methodology. This presentation will reveal how previous studies and the current modeling technology are changing the City's long-term approach toward drainage studies.

*Jeffrey Netzinger, PE, Stormwater Manager Town of Hilton Head Island, SC* 

Jason Johns, PE, Project Manager Woolpert

*Steve Godfrey, PE, CFM, Senior Modeler Woolpert*  **3:35 p.m. - 4:20 p.m.** (*Track A*) 0.75 credits

#### Tennessee's MTD Guidance Document - A Collaborative Story in Motion

As manufactured treatment device (MTD) testing protocols and technologies advance, it is important for MS4 communities to stay abreast of the most up-to-date information. Find out more about a collaborative approach to develop a guidance document regarding Stormwater MTDs. The goal is to help educate MS4 staff, by compiling and summarizing the most commonly accepted field and lab MTD testing protocols.

*Crystal Bishop, CPMSM, Stormwater Manager Hamilton County, TN* 

Jason Bates, Engineered Products Manager Advanced Drainage Systems

#### 3:35 p.m. - 4:20 p.m. Engaging Stakeholders to Develop a Watershed Research Master Plan

(Track B) 0.75 credits The Water Tower, a new global innovation hub in Gwinnett County, Georgia is leading the effort to create a forum through which stakeholders and researchers will work together to develop a Lake Lanier Watershed Research Master Plan. This presentation will outline the plan development approach and discuss how the plan will be used to guide research efforts within the Lake Lanier watershed.

*Steve Leo, Client Service Manager Constantine Engineering* 

*Jeff Mosher, Principal Technologist Carollo Engineers* 

Kristan VandenHeuvel The Water Tower

4:20 p.m 4:30 p.m.	Wrap Up
(General Session)	
0.25 credits	

## Friday, October 9, 2020 / Regular Conference

9:00 a.m. - 9:15 a.m. Welcome

9:15 a.m 10:00 a.m.	High Definition Stream Survey Methods for a MS4 Stormwater Permit
(Track A)	The High Definition Stream Survey (HDSS) technique enables the collection of geo-referenced
0.75 credits	video along with continuous in-stream, streambank, water quality, and bathymetric data over long
	reaches of ditch, stream, river or shoreline. This presentation highlights how data and the HDSS
	methods were used for the City of Cleveland, Tennessee's MS4 Stormwater Permit.
	Brett Connell, Hydrologist
	Trutta Environmental Solutions

# 9:15 a.m. - 10:00 a.m.Building Beautiful Resiliency: Parks, Ponds And Pollutants(Track B)The City of Columbia, South Carolina addressed three problems with one project: flooding in an<br/>important entertainment district, water quality in an impaired stream, and an underutilized urban<br/>park. This project shows that building more resilient infrastructure can go hand-in-hand with<br/>creating a more aesthetic and livable city.

Molly Davis, EIT, Water Resources Engineer in Training Woolpert

Wesley Harrison, PE, Senior Civil Engineer City of Columbia, SC

10:00 a.m. - 10:10 a.m. Break in Exhibit Hall

#### 10:10 a.m. - 10:55 a.m. Success Story: Significant Bacteria Reduction From BMP Implementation

(Track A) 0.75 credits Find out how a cooperative partnership among three counties, South Carolina Department of Health and Environmental Control (SCDHEC) and other stakeholders addressed the need for a 71% bacteria load reduction in the 25 Mile Creek Watershed. Learn how the implementation of best management practices through grant funding resulted in a reduction by almost HALF of the number of exceedances to bacteria water quality standards.

Angela Vandelay, PE, Senior Engineer Wood Environment & Infrastructure Solutions

Chanda Cooper, Education Program Coordinator Richland Soil and Water Conservation District, SC

#### 10:10 a.m. - 10:55 a.m. Big Creek Drainage Study and Flood Mitigation Design Project

(Track B)Significant areas along Big Creek, including the City of Millington, Tennessee and a naval base,0.75 creditsflooded during the historic May 2010 flood that occurred in Shelby County, Tennessee. This<br/>presentation will review how modeling this historic event, along with smaller frequency storms,<br/>was used to develop flood mitigation alternatives that reduce the potential for future flooding.

Adrian Ward, PE, CFM, CPESC, Vice President Barge Design Solutions

10:55 a.m. - 11:05 a.m. Break in Exhibit Hall

# **11:05 a.m. - 11:50 a.m.**Implementing a Stormwater Utility with Rural and Urban Drivers(Track A)Subject to nutrient management regulations in two watersheds, unincorporated Durham County,

North Carolina has significant stormwater program and funding pressures. This presentation provides information on how the County is addressing the unique challenge of addressing both urban, rural, and agricultural concerns as they implement a stormwater utility.

Katie Cromwell, Manager Raftelis

Ryan Eaves, PE, CFM, CPESE, Stormwater and Erosion Control Division Manager Durham County, NC

McKenzie Myers, PE, CFM, Stormwater Manager Durham County, NC

#### 11:05 a.m. - 11:50 a.m. Tidal Surge Protection for Coastal Fresh Water Irrigation as Sea Levels Rise

(Track B) 0.75 credits

0.75 credits

We continue to see more and more significant tidal events which push saltwater farther and farther into our freshwater impoundments. This presentation outlines how one coastal community has taken a proactive approach to retrofitting their stormwater facilities to reduce the potential for saltwater contamination of a freshwater irrigation supply while also helping to preserve their stormwater storage capacity.

*Robert Horner, PE, VP & SC Regional Manager Weston & Sampson Engineers* 

11:50 a.m. - 12:00 p.m. Break in Exhibit Hall

Wrap Up

12:00 p.m. - 12:45 p.m.Federal Update and National Stormwater Trends(General Session)The National Association of Clean Water Agencies will provide an update on water-related issues0.75 creditsand US EPA's stormwater program priorities at the national level, focusing on stormwater policy<br/>and permitting programs.

*Emily Remmel, Director of Regulatory Affairs National Association of Clean Water Agencies* 

**12:45 p.m. - 1:00 p.m.** (General Session) 0.25 credits

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**Live Conference Page** – Access the live conference online at <u>https://www.seswa.org/2020live</u>. See sample page below. From the live conference webpage you can select the sessions that are of interest to you and easily navigate between rooms.

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1:00 PM - 3:00 PM	WEDNESDAY, OCTOBER 7, 2020 - F ROOM A Making the Virtual World Work for Your Needs	re-Conference ROOM B Join us in Room A for the Pre-Conference Session

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## Attendee List (As of September 25, 2020)

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# Attendee List (As of September 25, 2020)

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- Examples of successful networks
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- **REDUCE WASTED TRIPS**
- ELIMINATE ON-LINE SEARCHES
- AUTOMATE RECORD KEEPING

## THIS APP SHOWS:

- HOW MUCH RAIN FELL
- WHEN TOO MUCH FALLS
- NOAA DATA
- THE NEXT TIME IT WILL RAIN

# **START A FREE 30-DAY TRIAL USE COUPON CODE 'SESWA' AND GET 1<sup>ST</sup> MONTH FREE AFTER UPGRADING**





waterwatchpro.com



# Save the Date! October 6-8, 2021

Hilton Head Marriott Hilton Head, South Carolina