

2019 APWA-NC Stormwater Conference Technical Agenda

Hotel Ballast | Wilmington, NC | September 8-10

MONDAY, SEPTEMBER 9TH

- 7:00 – 8:00 Registration and Continental Breakfast
- 8:00 – 8:10 Welcome — Hunter Freeman, 2019 APWA-NC Stormwater Division President
- 8:10 – 8:15 APWA-NC State Chapter Remarks — Robbie Stone, APWA-NC State Chapter President Elect
- 8:15 – 8:25 Opening Remarks & Welcome — Mayor Bill Saffo, City of Wilmington
- 8:25 – 8:45 Keynote Speaker — Tom Looney, NC Oyster Blueprint

REGULATORY & LEGISLATIVE UPDATES

- 8:45 – 9:15 **NC State Stormwater Regulatory Update**
— Annette Lucas, NCDEQ
- 9:15 – 10:00 **History, Evolution, & Successes of Charlotte-Mecklenburg Storm Water Services**
— Rusty Rozelle, Mecklenburg County Storm Water Services
- 10:00 – 10:30 **BREAK WITH PARTNERS, CAPE FEAR BALLROOM**

GENERAL SESSION

- 10:30 – 11:00 **NC State University Research Update** — Sarah Waickowski, NCSU-BAE
- 11:00 – 11:30 **NCDEQ Watershed Restoration Program** — Cam McNutt, NCDEQ
- 11:30 – 12:00 **City of Jacksonville's Climate Change Action Plan**
— Pat Donovan-Brandenburg, City of Jacksonville
- 12:00 – 1:30 **LUNCH AND DOOR PRIZES**

PARALLEL SESSIONS

STREAM RESTORATION, ROOM #1

- 1:30 – 3:00 **Grassy Creek Restoration to Provide Hellbender Habitats**
— Greg Jennings, Jennings Environmental
- Design Build Stream Restoration in Kvegas**
— Wendi Hartup, Town of Kernersville; Ian Jewell, Freese and Nichols
- Exposed/Threatened Utilities: Using Natural Channel Solutions to Wash Away Risk**
— Ward Marotti, WK Dickson

STORMWATER PREDICTION MODELING, ROOM #2

- 1:30 – 3:00 **"Smart" Stormwater Management Structural Practices: The Futuristic Solutions** — Debabrata Sahoo, Woolpert
- 2D Overland Flow Modeling in Urban Areas- Upsides & Downsides**
— Ken Trefzger & Ryan Brown, HDR
- Streamlined Storm Analysis & Visualization for Smarter Planning, Design, & Operations**
— Travis Crissman & Matthew Jones, Hazen and Sawyer

3:00 – 3:30 BREAK WITH PARTNERS, CAPE FEAR BALLROOM

PARALLEL SESSIONS

SAND FILTERS - LARGE PROJECTS, ROOM #1

- 3:30 – 5:00 **Devils in the Outfield: A Sports Sand Filter**
— James Caldwell, McAdams; Jennifer Buzon, City of Durham
- How Amazon Managed Stormwater Runoff**
— Michael Barnes, Oldcastle; Ross Perry, WithersRavenel
- Growing Smart Through Strategic Master Planning**
— Damain Gaiski-Weitz, HDR; Jimmy Jordan, Charlotte Douglas Int'l Airport

COASTAL CASE STUDIES, ROOM #2

- 3:30 – 5:00 **Planning for Intensifying Storms Along the Carolina Coast**
— Jennifer Diaz, WithersRavenel
- Managing Flooding in the Coastal Environment**
— Ryan Smith & Allison Bryan, Moffat & Nichol
- "Hurry"cane Modeling- Forecast Modeling to Optimize Limited Resources with Limited Time** — Ed Dickson & Jason Currie, Freese and Nichols

STORMWATER EDUCATION TOOLS, ROOM #3

- 3:30 – 5:00 **Interactive Tools For Stormwater Education v3.0**— Wendi Hartup & Friends

5:30 – 7:30 SOCIAL @ IRONCLAD BREWERY

Ironclad is located at 115 N. 2nd Street

TUESDAY, SEPTEMBER 10TH

- 7:30 – 9:00 Continental Breakfast

PARALLEL SESSIONS

BMP MAINTENANCE, ROOM #1

- 9:00 – 10:30 **The Good, the Bad, the Ugly of Post-Construction SCM Inspections**
— Brian Finerfrock & Taryn Somoza, RK&K
- Geoweb Installations to Stabilize Repetitive Loss Slopes on NCDOT Roadways**
— Staci Smith, ACF
- Regulatory and Non Regulatory Drivers for SCM Maintenance**
— Jacob Dorman, Contech Engineered Solutions

CULVERT SESSION, ROOM #2

- 9:00 – 10:30 **"The Road is Going to be Closed for How Long?" Reducing the Impact of Road Closures During Emergency Repairs**
— Marc Horstman, WK Dickson; Wayne Miles & Veronica High, City of Raleigh
- Evaluation of Stream Culvert Crossings for Function & Aquatic Life Passage**
— Erin Shanaberger, City of Charlotte
- Failing Culvert Solutions**
— Tiffany Ferrell & Al Hogan, Rinker Materials

10:30 – 11:00 BREAK WITH PARTNERS, CAPE FEAR BALLROOM

PARALLEL SESSIONS

PLANNING TOOLS, ROOM #1

- 11:00 – 12:30 **The City of Greenville Planning Tool**
— James Riddle, Woolpert
- Where and How do Lakes Fit In with a Municipal Stormwater Management Program?**
— Wayne Miles & Scott Bryant, City of Raleigh
- What's in a Name? Lumberton's Hurricane Experiences**
— Brandon Love, City of Lumberton

WATER QUALITY, ROOM #2

- 11:00 – 12:30 **Who Pooped in our Water? Lessons Learned Using Bacteroides Biomarker Methods**
— Jason Hunt, Charlotte Mecklenburg Storm Water Services
- Qualitative Evaluation of Stressors Impacting Freshwater Fish in Ellerbe Creek**
— Kate Montieth Sevick, Three Oaks Engineering; Michelle Woolfolk & Sandra Wilbur, City of Durham
- Using ASTM C330 Expanded Slate to Meet the NCDEQ Bioretention Media**
— Debbie Stringer & Chuck Friedrich, Stalite Environmental

12:30 – 1:30 LUNCH AND DOOR PRIZES

GENERAL SESSION #2

- 1:30 – 1:50 **Developing IDF Curves for Extreme Precipitation in Future Climate Scenarios**
— Tanya Spero, Environmental Protection Agency
- 1:50 – 3:00 **How Municipal Programs are Adapting in Response to Intensifying Rainfall Events** — Panel Discussion

3:00 – 3:15 STORMWATER PROJECT OF THE YEAR & H. ROONEY MALCOM STORMWATER PROFESSIONAL OF THE YEAR AWARD PRESENTATION

3:15 – 3:30 CLOSING & ADJOURN / GRAND PRIZE / PRESIDENT ELECT