

FALL 2022

SEPTEMBER 26, 2022

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President's Message



What a Great PWX! This was my first PWX and to have it in our State with the Chapter as the host to thousands of attendees was exciting to be a part of.

Thanks to the hard work of our host committee over the last few years the Chapter was able to host many events during the PWX. We had the Board Reception at the Discovery Place; the Golf Outing at the Rocky River Golf Club; the Brewery Tours—featuring the Birdsong, NoDa, and Heist Brewery's; the YP/International Reception at Ink and Ivy; the Get Acquainted Party at the NASCAR Hall of Fame (a fantastic band); The Futures Program; the Rodeo; the 5K run; and technical tours. Nothing but positive feedback from all events. None of these things could have occurred without the support of our Great Vendors/Partners who have supported our Chapter.

A special Thank You to all our Volunteers or Volun-tolds! The Chapter couldn't have pulled these events off without all of your help.

The APWA NC hospitality area provided a caricature artist, photo booth, chair massages for those who wished to participate – not to mention the Krispy Kreme bread pudding, Bo Berry biscuits, popcorn and beer. The backpacks, totes, challenge coins and water bottles were a big hit.

The Spouses lunch/tour and Spouses Lounge were very much appreciated by all.

I was amazed by the number of exhibitors and the vast number of products they offered that could help all attendees do their jobs better and more productively. I hope everyone took advantage of their expertise.

As Fall approaches please remember to check out the APWANC website for updates to all events the Chapter still has to offer this year.

Respectfully,



Rebecca "Becky" Bost
APWA-NC President

IN THE COMMUNITY

Improving Flood Response in the City of Raleigh: Raleigh's Flood Early Warning System Project

By Chris Stanley, PE, CFM (McAdams); Kelly Daniel (City of Raleigh); Kelsey McDonough, Ph.D (AEM/Vieux & Associates)

With an undeniable increase in the frequency and severity of significant rain events occurring in recent years and a need to improve response and safety across the City during flash flood events, the City of Raleigh, North Carolina, is currently developing its own Flood Early Warning System (FEWS), where capabilities include advanced prediction of potential stream flooding and at localized hotspots, with an increased lead time for road closures, evacuation, and emergency response. The first stages of this project have included a pilot program that can monitor rainfall across the entire city and predict flooded areas before they occur.

Kelly Daniel is Raleigh's first Flood Early Warning System project manager.

"What we're trying to do is help forecast flooding that's going to be happening across the City of Raleigh, and get our first responders out there to block off the roads and do things so people don't drive through roads in flooding situations and conditions," said Daniel.

The stormwater management team has several resources in place already to help identify problem areas during storms, including 150 traffic cameras to monitor road conditions, 10 high-water flood sensors systems with flashing signs, 15 stream gauges in creeks and 16 rain gauges that track water levels as they rise. Raleigh will be adding 6 rain gauges and 1 stream gauge to their network this summer along with piloting a project with cellular network cameras that are solar powered.



"When the (stream) gauge gets up within right close to the warning level, we'll call 911 and let our first responders know that the creek level is getting close to flooding," said Daniel.

The pilot program that they've been developing over the last year can track rainfall across the entire city, and not just in the areas where the storm gauges are located.

"The great thing about this, we know exactly across Raleigh how much it has rained in each system, where before we only knew how much it rained at the rain gauges. Not only does it show how much it rained, it can also predict how much it thinks it's going to rain," explained Daniel.



The system will send alerts to Daniel and his team with predictions for potential flooding.

“We can get alerts that let us know it’s predicted to rain two inches there and we can let our first responders know that it’s possibly going to have flooding in that area in the next hour or two,” said Daniel.

Flash flooding is one of the leading storm-related killers in the U.S. On average, 127 people die due to floods each year, and half of those fatalities are vehicle-related incidents, according to the National Weather Service.

Leading the development of this flood early warning system is Vieux & Associates, an AEM brand (aem.eco). Based out of Norman, Oklahoma, Vieux specializes in radar rainfall and runoff software, products, and related services, and is a recognized leader in advanced hydrologic modeling and gridded rainfall to provide world-class flood warning systems.

Vieux’s work relies on operational flood modeling coupled with gauge adjusted radar rainfall (GARR) to form the basis for predictive flood modeling in near real time (NRT). GARR is a gridded rainfall product that is produced using both radar rainfall and individual rain gauges, which are bias corrected, quality controlled, and filtered to user-specific grids, catchments, or basins in a model-ready format. The key advantage of GARR in hydraulic and hydrologic

modeling is the spatially continuous, gridded format, delivering a hydrologic input product of known and documented accuracy. With GARR as part of the flood warning system, rainfall intensity and the associated hydrologic response is predicted and measured across the City to provide a more accurate picture of the risk to critical assets and increase lead time for first responders to aid in public safety and protection.

This pilot study has also been conducted in cooperation with USGS to use existing stream gauge equipment to aid in the development of the flood early warning system for better forecast analysis and prediction of flood stages.

Model output is configured to produce predictive inundation maps, stream stage, and discharge, with automated alert notifications when critical predetermined thresholds are reached. Results from this program will offer increased lead time to notify first responders and to help manage flood emergencies within the City before, during, and after the event.

Also joining Vieux as part of the consultant team for this project is McAdams (Durham/Raleigh, NC), who provided the FEWS Team with local, institutional knowledge and support for hydrologic and hydraulic modeling of Crabtree Creek to determine key points of significant peak flow attenuation, model calibration based on field observed flooding conditions at

flooding “hot spots” along the creek, and rating curve generation for the major flood storage facilities within the upper reaches of the Crabtree Creek basin. McAdams has provided flood model development along Crabtree Creek since the early 2000s and has provided support throughout the FEWS project by assisting with storm model calibration and in-depth knowledge of Raleigh’s storm drainage system performance during major flood events, such as Hurricane Matthew in 2016.

Ultimately, the results from this program will offer increased lead time to notify first responders and the greater public within the City of Raleigh about storm and flood risk/impacts.

The flood early detection pilot program is still in the development stages, but Daniel hopes they can make it a permanent resource in the next few years.

“It really hits home about what can happen and why

we need these flood monitoring systems, so we can help prevent death and help save lives,” said Daniel.

This project was presented at the 2022 Public Works Expo in Charlotte, North Carolina on August 29, 2022.

For other questions about the City of Raleigh’s flood early warning system, contact:

City of Raleigh

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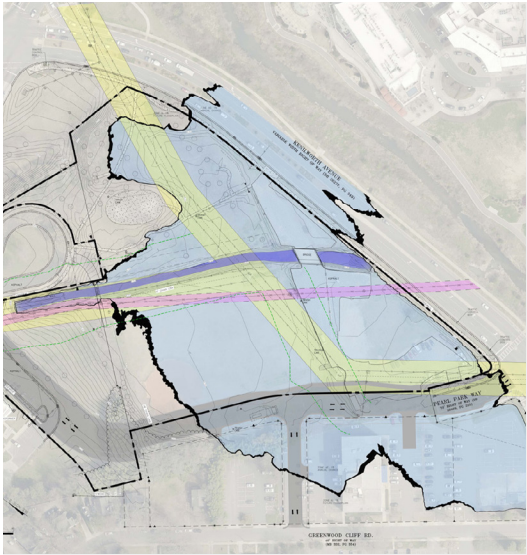
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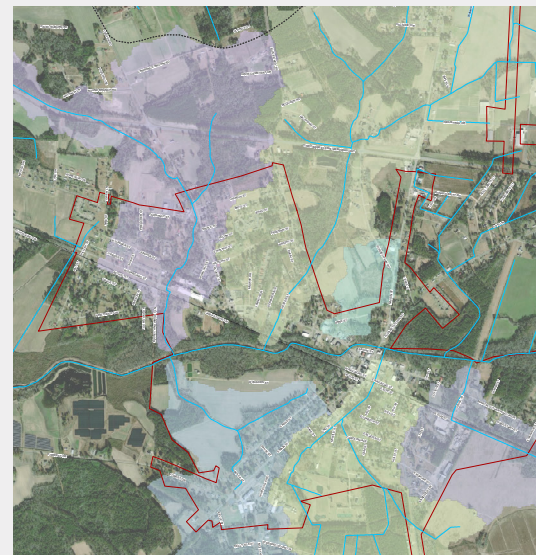


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BLADEN COUNTY STORM DRAINAGE ANALYSIS BLADEN COUNTY, NC



IN THE COMMUNITY

Story in Pictures of PWX



Thursday, August 25th, was the kickoff for the Host Committee. Yes, this is a fun bunch who spent up to four years planning for PWX2022, the APWA-NC Host Committee. After hours of stuffing welcome bags (almost 2000 backpacks and totes) they were a bit giddy, showing a lot of stress relief. Co-chairs of the Host Committee, Elizabeth Treadway and Doran Maltba led the team in silliness for this pose. How many do you recognize?

Doran and Elizabeth appreciate and thank the Host Committee members who volunteered many hours to create a very special experience for attendees. In addition, many thanks to APWA-NC Chapter President Becky Bost who joined right in and was a tireless cheerleader for all our committee members.

The attendance at PWX2022 was terrific – all the Welcome Bags were gone by Monday morning along with the PWX2022 Water Bottles. Registration prior to the event was 1,956 full-time attendees including full-time spouse/guests. The Expo was attended by 403 companies using 80,600 of event space (those most ever for a PWX). On Wednesday, 340 attendees were on Technical Tours coordinated by Charlie Jones and Chris Davis (City of Charlotte).

Finance/Treasurer

Chip Vanderzee and Dale James

Fund Raising

Jennifer Smith and Cameron Patterson

Marketing

Mae Bryant, Sujit Ekka, Emily Smith, and Brooke Gaines

Volunteers

DJ Seneres and Derek Slocum

National Board Reception and Chapter Hospitality

CJ O'Neill and Blair Hinkle

Get Acquainted Party

Theresa Watley and Dwayne Moore

Technical Tours

Charlie Jones and Chris Davis

International Reception

Sujit Ekka and Ray Funnys

Welcome Bags, Water Bottles, Speaker Gifts

Johnathan Wishart and Wendi Hartup

5-K Run/Walk

Lindsey Thomas and Adam McLamb

Golf Tournament

Keith Garbrick and Jon Aldridge

Daily Door Prizes

Magda Holloway and Jonathan Boone

Futures Program

Allison Molleson, Morgan McIlwain, and Emily Brown

Exhibitor Hospitality

David Cox

Equipment Rodeo

Steve Gearren and Earl Manning

Brewery Tour

Christina Vanderzee and Aaron Cook



Friday evening August 26th, APWA-NC Hosts the National Board of Directors at Discovery Place. Past President Mary Joyce Ivers and newly elected Region III Director Jeffrey Brown join in the fun with Host Committee Co-Chair CJ O'Neill, getting to know about Asian Turtles.

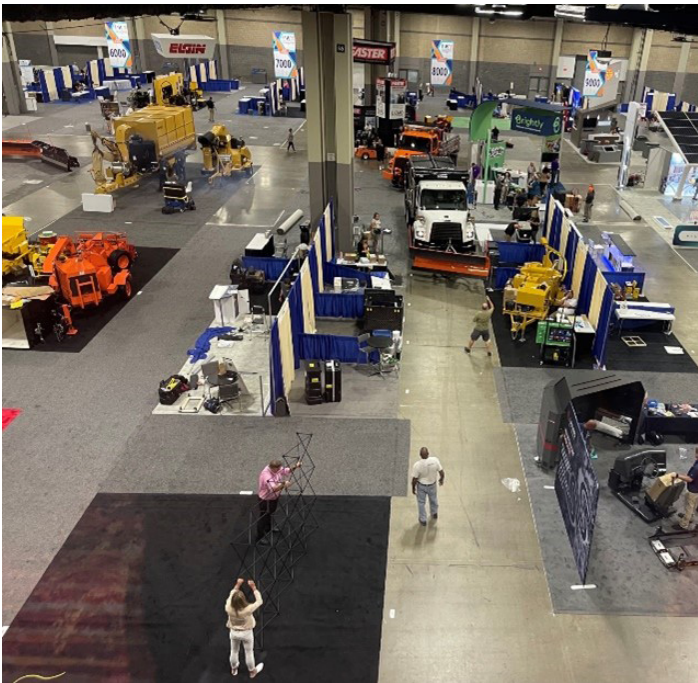


Saturday morning, August 27th, the spouses and guest of the National Board of Directors started their day with a Brunch planned by the Host Committee Co-Chairs Doren and Melissa Maltba. After Brunch, the group toured the Mint Museum.

Saturday afternoon, many early to arrive in Charlotte joined members of the Host Committee on a tour of breweries in Charlotte. Clearly, this group had a great introduction to the area. One of the brewery stops was Heist. All those PWX blue shirts are volunteers from the chapter.



Saturday is setup day in the Expo Hall. Amazing turnout for PWX2022, largest number of exhibitors ever, most square feet of exhibit space sold. Great show for all who attended.





Sunday morning at the Opening Session, Past President Stan Brown congratulated our new President and fellow Chapter member, Keith Pugh.

Sunday evening the APWA-NC Host Committee had a party at the NASCAR Hall of Fame. Co-chairs Theresa Watley and Dwayne Moore (City of Charlotte), working in coordination with the National Meetings Team, pulled off a great event. Guests gathered in the pre-function area before entering the Hall of Fame.



Monday, August 29th, began with the Equipment Roadeo and 47 registered contestants. Many thanks to Earl Manning and Steve Gearren for their coordination as co-chairs of the Host Committee for the Equipment Roadeo. South Carolina came through in the end and took the top prize. Thanks to the City of Charlotte for closing the street so folks could watch the of the competition.

Tuesday began with a 5K Run/Walk organized by Adam McLamb and Lindsey Thomas, co-chairs of the event for the Host Committee.



APWA-NC Chapter Hospitality area was on the second floor of the Charlotte Convention Center and was the site for distribution of our event water bottles, refreshments and activities for all to enjoy. CJ O'Neill and Blair Hinkle manned the site, coordinating volunteers and events during the four days of activity. Many items were given away at this location, "swag" obtained by the Marketing Committee (Mae Bryant, Sujit Ekka, Emily Smith and Brooke Gaines), water bottles, and refreshments.



Corn Hole games were enjoyed throughout the four days. It took a lot of volunteers to support the area, assist in the Scavenger Hunt, promote the Blood Drive (56 units were donated), distribute Challenge Coins, and answer a lot of questions from attendees to help them find their way. Most importantly, the events organized and coordinated by the Host Committee could not have happened with the support of our Partners. Thank you and we're proud to work with you, promote your participation, and recognize the critical relationships we've built through this event. Those Partners who were exhibiting assisted the Host Committee by distributing the Challenge Coins – each given a basket of coins that attendees could obtain by turning in the voucher found in the welcome bags.

A big thanks goes to Jennifer Smith, City of Charlotte and Cameron Patterson, WithersRavenel who served as co-chairs of the Fund-Raising Committee.

After PWX2022 was in the “past”, volunteers joined with Kidz That Care to fill backpacks that were donated by attendees to support kids in need of important school supplies.



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IN THE COMMUNITY

Young Professional Spotlight

Gina Straga, PE, Young Professional APWA-NC Chairperson

Submitted by APWA-NC Young Professional Committee



Get To Know Gina Straga, PE

- **CAREER:** Project Manager at ESP Associates
- **INDUSTRY SECTOR:** Civil Engineering
- **APWA-NC MEMBER SINCE:** 2021

Originally from Southern New Jersey, Gina received her Bachelor of Science in Environmental Engineering from the Clemson University in 2016. She moved to Charlotte, North Carolina in 2016 and began working as an EIT. In 2020, she earned her NC professional engineering license and works as a project engineer at ESP Associates.

In Her Own Words

In college, I was studying environmental engineering with the intention of working in remediation after I graduated, but an internship at a Charlotte Civil Engineering firm changed the direction of my career towards Greenways. In college, I was not aware that Greenway design was a career path I could pursue, but it has become a field that I have grown a passion for and want to continue pursuing as an engineer. I began working at ESP in 2020, first starting out on their stormwater team but hoping to eventually find the opportunity to work on Greenway projects again. Eventually, our team grew, and we were able to win several greenway projects in North Carolina that we continue to work on today. I also continue to work on Stormwater projects with our ESP team and enjoy the chance to broaden my experience and skills.

Looking Forward

Gina is looking forward to continuing to work on Greenway projects for her community and becoming more involved in the development of trails and parks.

A Little Advice

If you are given the opportunity, work on as many different types of projects as possible. It will expand your portfolio of skills, broaden your professional network, and allow you to get a taste of what you might like to focus on later in your career. Being a jack of all trades early in your professional skills will give you the versatility you may want until you're ready to become an expert in your chosen discipline.

Mentor

Andrew Martin, PE, Alicia Rocco, PLA, Lisa Roberts, PLA.

Outside of Work

Outside of work I enjoy rollerblading the greenways in Charlotte, traveling to the mountains and beaches of the southeast and visiting family and friends.

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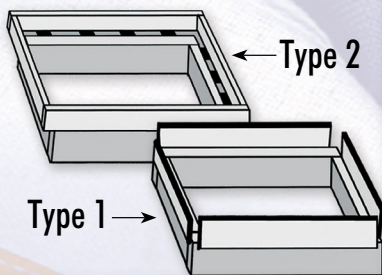
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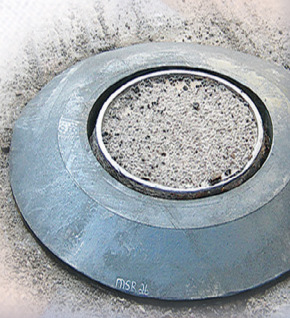
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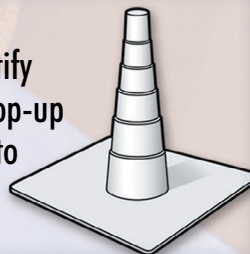


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DIVISION NEWS

Forsyth County New Courthouse Project APWA NC Facilities & Grounds Division Project Spotlight



By James Anderson Jr, MCM

Design of the New Courthouse started in 2018 with the selection of CJMW Architects, PA and the joint venture comprised of Balfour Beatty and Samet Corporation serving as the Construction Manager at Risk. The project design required balancing the needs of eleven different departments with the budget set by the County Board of Commissioners. To add to the challenge, design was wrapping up at the same time Covid-19 was arriving to North Carolina. Forsyth County ultimately settled on an approximately 250,000 square foot facility that would house 18

hearing rooms, separate elevators, and circulation for in-custody, staff, and the public. A highlight of the project is the tunnel connection to the County's detention center.

The project went out to bid during the height of Covid-19 and to the surprise of County staff came in under budget, with a Guaranteed Maximum Price (GMP) of roughly \$83M. Construction broke ground in January of 2021 and is on schedule to be substantially completed in May of 2023. To help mitigate market uncertainty, the Balfour Beatty/Samet team worked diligently to secure early release

of materials and long lead equipment. Technology has played a role in keeping the project on track as well with ProCore being used to manage RFI's, submittals, project documents, and change requests. This tool has been instrumental in keeping the designer, owner's rep, and CM@R focused on meeting review timelines and responding to urgent matters that could affect cost and/or schedule. This project will also be the first for the County which has employed 3D scanning at various levels of completion. Matterport 3D scanning is being used to document in-wall and above ceiling conditions prior to installation of finishes. Post occupancy, these scans can be used by maintenance to determine location of piping, ductwork, valves, etc.

Our success so far is in large part due to the tremendous collaborative effort between our two firms and really coming together as one team, along with the trust and relationships we've built and continue to foster with Forsyth County staff, the design team, and the City of Winston-Salem inspections department.

—Ryan Verstat
Sr. Project Manager

The image is a promotional graphic for AMT Engineering. It features a dark blue background on the left with the AMT logo in white. Below the logo, there is a list of services with corresponding icons: Transportation Engineering (road icon), Stormwater Compliance (water waves icon), Development Reviews (document icon), Asset Inventory (list icon), and Construction Services (construction crane icon). On the right, there is a photograph of a paved trail with a metal railing, set against a backdrop of trees and a sunset sky. In the top right corner of the photo, there is a yellow banner that reads "2022 MOBI AWARD WINNER". In the bottom right corner of the photo, there is a white box that reads "City of Creedmoor Cross City Trail" and "Creedmoor, NC".

AMT

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Stormwater Compliance

Development Reviews

Asset Inventory

Construction Services

CONTACT US

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smacdonald@amtengineering.com
amtengineering.com

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DIVISION NEWS

Project Spotlight

New LEED Certified Maintenance Facility in Charlotte

The City of Charlotte Fleet Management Division recently opened a new LEED certified maintenance facility in Northeast Charlotte. Strategically located between Charlotte Water and CDOT Street Maintenance the General Commerce shop is a 10 bay facility designed primarily for heavy truck and equipment maintenance/repair, but also has provisions to repair/maintain light duty vehicles. The location greatly reduced windshield time for equipment operators and provides added convenience to customers located in North Charlotte. Currently staffed with six technicians and four support staff the General Commerce shop supports 345 assets for Charlotte Water, CDOT Street Maintenance, and



Charlotte-Mecklenburg Police Department. The facility is the first in Fleet Management to attain LEED certification. A few enhancements to achieve LEED status are; solar panels that provide 40% of energy to the shop, geothermal heating and cooling, radiant heat flooring in the shop area, and state of the art LED lighting and controls.



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DIVISION NEWS

2022 APWA NC Equipment Services & Streets Division Annual Conference

October 5th–7th at the Asheville Crowne Plaza Resort

APWA NC Combined Equipment Services and Streets Division is excited to welcome you to Asheville, NC and the Asheville Crowne Plaza Resort for the Annual Combined ESS Conference.

The conference will open on Wednesday, October 5 and run through Friday October 7, 2022. Conference sessions will offer the chance to explore new ideas and enhance your technical skills. The Exhibit Hall will offer the opportunity to see and experience the latest in equipment and technology to help improve your city or town.

There are still partnership opportunities to help with conference activities. If you would like to be a Partner and support the conference by way of a monetary donation, your company will receive special recognition and thanks during the conference.

Attendee Registration

Partner Registration



Hickory 2021 Conference Exhibit Hall



Hickory 2021 Conference

DIVISION NEWS

APWA-NC Streets Division Scholarship Accepting Nominations for Annual Scholarship Program





APWA-NC Streets Division is currently accepting nominations for our Annual Scholarship Program. This award will be based on written nominations with the following criteria:

Two \$1,000 Scholarships to an employee or student who recently enrolled in or is currently attending a school of higher learning to advance his/her career.

The deadline for all entries has been extended. The Streets Division Board will meet to review and vote on all nominations during their scheduled September meeting. Scholarships will be presented October 6th at the 2022 Equipment Services/Streets Conference to be held at the Crowne Plaza Resort in Asheville.

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DIVISION NEWS

APWA Testimonials

Gary Smith

City of Burlington/Fleet Manager

Reflecting on my public works career, I have realized that having a mentor and getting involved in professional organizations are the two things which have really made a difference in my work life. It may sound crazy to some of you, but I have always enjoyed what I do, and it has never bothered me to go to work (okay, maybe a few times!). APWA has given me the opportunity to meet so many people over the years and the friendships I have made are so very precious to me. It is that simple. Networking with other public works professionals over the years has helped me learn and grow professionally. Each day I am faced with new challenges, and I am thankful for all the North Carolina Chapter has provided to help me deal with those challenges.

"APWA has given me the opportunity to meet so many people over the years and the friendships I have made are so very precious to me."

– Gary Smith

City of Burlington/Fleet Manager

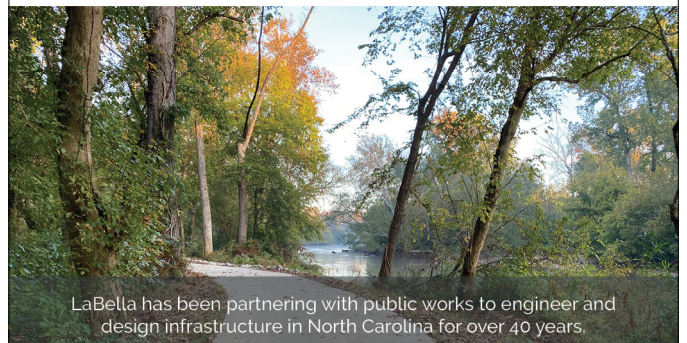
Robbie Stone

City of High Point/Public Services Director

I have been a member of APWA for several years now. APWA has offered me opportunities to learn so much about local government operations. The benefits of APWA became more apparent as I transitioned from an Engineering design role into the Streets and Stormwater operations. Conferences set up specifically for those disciplines allowed me to gain a wealth of knowledge. Even better than that, I was able to network with leaders from other municipalities and partners (vendors) for advice, questioning, etc. to bring value back to my employer. APWA has also impacted my career path. As opportunities have opened in neighboring communities, APWA has provided a direct access to discuss those opportunities through networking and relationships fostered. Most



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DIVISION NEWS

APWA Testimonials

of all, the fine folks involved in APWA are more than just members of an organization. They are family. They have a genuine interest to see each person succeed and grow inside their organization and in the personal life. If someone is contemplating becoming a member, I would highly encourage them to stop thinking and take the jump now. The dividends are more than you will ever imagine if you are seeking to grow and learn.

Jake Klodt

City of Asheville/Fleet Division Manger

I have been a member of the North Carolina Chapter of the American Public Works Association for the past nine years, and it has been one of the most helpful resources in my career in Public Works. The resources available through the APWA have helped me even before my first day on the job. In preparation for a project for my job interview, I purchased the Public Works Administration book from the APWA and studied up on the various topics that I needed to discuss as part of that project. I ultimately got the job and soon afterwards joined the APWA and have been a member ever since. The resources available from APWA have been tremendously helpful to me and my organization. The books and articles available, the legislative advocacy, the conferences all have been great, but the best part of the APWA are it'ss members. It is awesome to have the ability to meet others in the Public Works field and to ask them questions about how they do things, and to be able to lean on them when contacts or examples of documents are needed. I highly recommend the American Public Works Association and specifically the North Carolina Chapter for these and many other reasons.

"The dividends are more than you will ever imagine if you are seeking to grow and learn."

– **Robbie Stone**

City of High Point/Public Services Director

"The resources available from APWA have been tremendously helpful to me and my organization."

– **Jake Klodt**

City of Asheville/Fleet Division Manager



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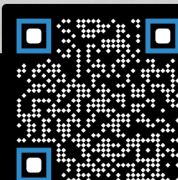
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Evan Bickerstaff	
Howard Bishop	Town of Fuquay-Varina
John Bisette	City of Wilson
Francis Boaf	City of Charlotte Storm Water Services
Joshua B. Bowen	City of Kings Mountain
Ronald S. Bridges	City of Statesville
Christopher Brockway	Thinking Hats Technologies, LLC
Gabrielle Bryson	City of Rocky Mount
Alex Bujenovic	City of Charlotte Storm Water Services
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Ty Colwell	
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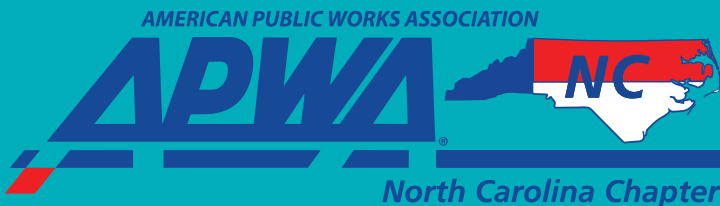
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