

North Carolina Chapter News

SPRING 2023

APRIL 2023

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President's Message



ello everyone!

I would like to start by saying "Thank You" to all who supported the 2023 APWA-NC State Chapter conference held in Concord, NC on March 14-16, 2023, at Embassy Suites. This year's conference was a success due to all the partners, volunteers, and "you" the attendees.

The theme for the conference was "All Hands-on Deck" and that's exactly what transpired as there were teams of individuals that worked tirelessly to make this event happen. This work effort allowed for three tracks of sessions to ensure you were able to receive a generous number and variety of CEUs, while also visiting the exhibit floor to network with the partners.

There were also plenty of other networking opportunities as the annual golf event, mini golf, scavenger hunt and let's not forget the Past Presidents' Dinner and Dance, which all provided great social interactions, fun, fellowship, and food. Most rewardingly, we were also able to continue our annual community service project. This year, a food drive was established, and a monetary donation was made to benefit Cooperative Crisis Ministry of Concord, NC.

As a re-cap of the information shared at the Annual State Chapter Meeting on the last day of the Conference, we will not hold a 2024 State Chapter Conference. While the last two annual State Chapter Conferences were successful, the Executive Board will use the next year to assess new methods and opportunities to execute an improved State Chapter Conference, while still supporting the Division Conferences and maintaining the Annual State Chapter Meeting, Awards & Scholarships, Past Presidents' Dinner, and Leadership Training.

A new State Chapter Treasurer was selected as Dale James retired in December 2022. Please join me in welcoming Christina Vanderzee in her new role as the State Chapter Treasurer.

Please be on the lookout for future updates on upcoming events 2024.

Respectfully,

Mae H. Bryant

Mae H. Bryant APWA-NC President

Leadership and Management Division Hosting an Informative and Engaging Conference

Submitted by Frank J. Gioscio, PE, NC CEI Department Manager | ESP, Associates

The Leadership and Management Division (LMD) of APWA-NC invites you to attend our 2023 Conference, May 17-19, at the State View Hotel, Autograph Collection, in Raleigh. The hotel is located within walking distance of the North Carolina State University campus on 2451 Alumni Drive, Raleigh, North Carolina. Guests also have direct access to prime downtown shopping, dining, and entertainment. Attendees can book their accommodations at the State View Hotel now. Please make your hotel accommodations by April 25 to take advantage of the APWA-NC LMD discount: <u>BOOK NOW!</u>

A great lineup of informative and engaging learning opportunities is planned that is sure to fit your needs as a public works leader. Topics range from engineering practice and technology advancements to personnel management and leadership skills necessary to thrive in an ever changing public works environment. We encourage you to also bring your rising public works leaders to this conference for group mentoring, networking, and insight on current and future issues in public works. <u>Registration</u> to attend the APWA-NC LMD Conference is now open.

As usual, we will mix in entertainment with education. A golf outing hosted by LaBella Associates will kick off our Conference. Golfers of all levels are encouraged to attend for a fun day of comradery and relaxing play. The hotel also has a soothing outdoor heated swimming pool surrounded by striking woodland scenery, a lounge area with views of Lake Raleigh, and a 24/7 hotel fitness center.

However, the success of this great Conference could not be achieved without the generous support of our Partners. <u>Partner Registration</u> is now open for organizations interested in opportunities to support APWA-NC LMD and the many Public Works Professionals that will attend the Conference.

Save the Date for the 2023 APWA Leadership and Management Conference!



Attendee Registration

Partner Registration

Book Hotel

Mentorship Program

Are you interested in meeting more people and finding out why we all love APWA? Come join us at the APWA NC Leadership and Management Division Conference on May 17th - 19th where interested Mentees will be specifically paired with willing Mentors. It is our intent that this Mentorship Program will be Mentee driven. And the goal is the development of a lasting relationship between the Mentee and the Mentor that extends beyond this Conference. Just one thing though, you must be registered for the APWA-NC LMD Conference prior to signing up for the Mentorship Program.

Mentors

We are looking for experienced Public Works Professionals who would like to give back to our Young Professionals by a) sharing their experiences, b) providing guidance pertaining to their career in the public works industry, and c) providing guidance on maximizing their involvement with APWA. We'd welcome Public Works Professionals (active or retired) from both the public and private sectors. If this is you, please consider signing up.

Mentees

We are looking Young Professionals who are a) first-time attendees to the APWA-NC LMD Conference, b) new to APWA, c) just starting your career, and/or d) looking to connect with someone from the public or private sector of the public works industry, who is willing to share their experience with you. If this is you, please consider signing up.

So, please sign-up for the Mentorship Program <u>here</u> or complete the attached PDF and send it to **Jacqueline Thompson** (<u>Jacqueline.thompson@bolton-menk.com</u>). The LMD Conference Registration will close by April 14th, so make sure to register for the Conference and sign-up for the Mentorship Program today!

Sign-up for the Mentorship Program

Public Works Education and Career Forum

The Leadership and Management Division (LMD) will be hosting its first annual Educational and Career Forum this year the day before the LMD Conference kicks-off. To fulfill our 2023 non-profit initiative, we will be inviting Academic Professionals from NC post-secondary and secondary institutions to attend the Forum for FREE!!

Now all we need is commitments from 15-20 Public Works Professionals to lend their time and talents and share their expertise, as we all work together to encourage the next generation to pursue careers in public works. We expect that one of these highly desired Public Works Professionals could be you... but we need you to commit by responding to this Request for Participants.

Participants in the Education and Career Forum need not be APWA members; but must be current or retired Public Works Professionals ... in any capacity from the public and/or private sector. Participant opportunities will include solo presentations, panel speakers, small group facilitation and more.

So, if you or someone you know would like to be a Participant in the LMD Forum, please complete the attached form and return it to **Theresa Little Watley** (<u>theresa.watley@charlottenc.gov</u>) as soon as possible. Thank you!



Project Spotlight: Why Switch? Adjustable Risers Prove Themselves in Greensboro, NC

Angus W. Stocking, L.S.

With a population of 270,000, Greensboro, North Carolina, is a genuinely big city, and it's also part of the Piedmont Triad, the nation's 30th largest metro area—all told, Greensboro Asphalt Section Supervisor Jordan Lambeth is responsible for the maintenance of about 4,000 lane miles. "And a lot of our infrastructure is over a hundred years old," he points out. "So we are always doing a lot of repaving and maintenance."

In 2000, Greensboro began using the American Highway Products Pivoted Turnbuckle Manhole Riser to raise manholes to grade after asphalt overlays or simply to raise manholes that have subsided over time. Lambeth knows the risers well he's been involved in city road maintenance for eleven years, and has spent plenty of time on crews actually installing them. He's raised manholes the other way, too; "We used to raise all our manholes by jackhammering up the old frames, raising them with concrete rings, and then paving around them. It could take half a day."

All that effort didn't add up to better quality. "The first time I used these risers, it was in response to an issue we were having after overlay projects," Lambeth says. "Basically, all the paving was good—except around manholes. Either we left depressions around the manhole, where we pulled back hot asphalt without raising the lid—that made the manholes into potholes. Or we'd spend half a day raising a manhole after an overlay, and the jackhammering and patching would compromise the new pavement."

Because of Greensboro's aging infrastructure, manholes are still raised from the frame up on very large repaying projects done by contractors. But Lambeth's department keeps four eight-man city crews busy all year on smaller paving projects and roadway repairs. On these projects, the AHP risers are always used, and Lambeth says that adds up to more than a hundred manhole risers installed annually, plus about 75 water valve risers, also made by American Highway Products.

The Pivoted Turnbuckle is the key advantage for Greensboro; it allows crews to slip a riser of appropriate thickness into the original rim, adjust it to match sloped paving, and then use a screwdriver (as a lever) to twist the turnbuckle and exert 1,000s of pounds of mechanical force. This sets the riser tightly and securely. "It takes five minutes, tops, and we've never had one fail," Lambeth says. "Even in winter, when we're snowplowing, they do fine because they're set so close to grade." Greensboro has looked at other adjustable risers, such as those set with allen screws, but hasn't found anything that works as well. "They'd pop out and everyone would fuss," Lambeth explains.

"They take five minutes to install, compared to half a day, they don't fail, and because they're at grade they improve ride quality for our drivers," Lambeth says. "So why would we use anything else?"

Angus W. Stocking, L.S. is a licensed land surveyor who has been writing about infrastructure since 2002.

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Capacity		Approx. Current Avg	. Daily Flow	0.0420	? 35.90%
0.117 (mgd)		Direct - Obligated, N	lot Yet Tributary	? 0.0000	? 0.00%
Firm Capacity		Upstream - Obligate	d, Not Yet Tributary	? 0.0480	? 41.06%
0.117 (mgd)		Tota	I Flow and Capacity	? 0.0900	? 76.95%
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Starting out 2023 with the APWA Top 5 Trending Technologies

Each year since 2018, the <u>American Public Works Association</u> (APWA) surveys their 30,000+ membership to identify the Top 5 Tech Trends for the Public Works community. They just released the <u>list for 2023</u> and once again, GIS is on the list, along with drones, asset management, field crew technology, and electric vehicles.



These technologies are not mutually exclusive. They are all connected, and GIS is the integrative technology that ties them together. GIS is a key component in drone flight planning and for making the data collected by drones useful in other applications. To make asset management most effective, you must know where your assets are, so GIS is a critical part of any asset management initiative. Field crew technology relies heavily on GIS, whether it's helping the crews plan their field work, coordinating the work, navigating to the work, understanding the work location and surrounding area, capturing data, and for those back in the office monitoring their work. As we transition to electric vehicles (EVs), the need for expanded EV support infrastructure is increasing and GIS, is a powerful tool for supporting that expansion. Whether it's siting of EV charging stations, or planning and permitting the electric

grid expansion, ensuring this expansion is equitable and sustainable, GIS plays a powerful role.

Let's look at some examples of how each of these five technologies are being utilized by Public Works organizations, and how drones, asset management, field crews and EVs are integrated with GIS:

- **GIS** <u>Here's a great example</u> of a public works organization using GIS as a mission-critical enterprise IT business system to support their entire mission, Houston, Texas Public Works and their story about Transforming Houston Public Works Geospatial Technology
- **Drones** The use of drones by local government and public works organizations is rapidly expanding. There are many use cases that justify the investment

in a drone program. Here are some stories from local governments on their drone programs powered by GIS:

- » Douglas County, Nebraska
- » Flagler County, Florida
- » <u>Salem, Oregon</u>
- Asset Management The integration of GIS with asset management has a long history and there are multiple ways for public works organizations to implement these technologies:
 - » Esri provides 25 complimentary asset management solutions as part of our ArcGIS Solutions program. <u>These solutions</u> are supported, open source and designed to be deployed without writing code. They can also be deployed in the cloud.
 - » Esri has <u>over 200 partners</u> that can help implement asset management solutions.
- Field Management:
 - » <u>This is a great story</u> from Newark, DE on how they are using GIS to reimagine, rethink and rebuild their field work processes.
 - » You can find out more information on how ArcGIS supports all phases of field work <u>here.</u>
- **EVs** Many local government agencies are using GIS to plan for the EV transition:
 - » <u>Torrance, California</u> has been working on this issue since 2008 when the Strategic Plan committee reached a consensus that "stewardship of the environment" should be a priority, and "using alternative fuels" should be among the City's goals to accomplish that priority
 - <u>Raleigh, North Carolina</u> developed their EV Service Equipment Mapping Tool to identify the most suitable locations to install publicly available Level 2 EV charging stations to serve EV drivers in the city and won the Transportation Innovation Award from the Research Triangle Cleantech Cluster.
 - » <u>Cape Cod, Massachusetts</u> Commission adopted their Regional Policy Plan in 2019 which includes a planning action for the Commission to conduct a GIS screening analysis of potential electric vehicle charging station locations.
 - » <u>California business leaders and officials</u> set out to analyze the best sites for EV chargers and they

wanted to give all residents access to charging. GIS analyst Sam Lustado incorporated equity and sustainability into a cutting-edge app called Charge4All.

 » In 2019, a New Jersey multiple state agency partnership was created by the governor to build out the necessary infrastructure to support electric vehicle ownership to improve air quality and reduce greenhouse gas emissions. <u>Strategic</u> <u>mapping</u> was developed that will help inform strategic placement of EV charging infrastructure.

For decades, thousands of public works agencies have partnered with Esri as their first choice to incorporate spatial thinking into their daily operations with ArcGIS. What are your plans for 2023 for implementing GIS and the rest of the Top 5 Tech Trends in your public works operation? For more information on how you can use GIS to support your mission, please check out our website: <u>https://go.esri.com/GIS4PW</u>. If you have a GIS success story you would like to share with the community, please visit our <u>self-service success story portal</u>.

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Young Professional Spotlight

Brie Saur, El, Young Professional APWA-NC Social Media Chair

Submitted by APWA-NC Young Professional Committee



Get To Know BRIE SAUR, EI

- CAREER: Designer II
- INDUSTRY SECTOR: Water Resources
- APWA-NC MEMBER SINCE: 2021

Brie grew up in Charlotte, NC. She graduated with her Bachelor of Science in Biological Engineering from NC State University in 2020 and has lived in Raleigh since. Brie has been a member of APWA-NC since 2022 and plans to continue growing and making connections in APWA for years to come.

In Her Own Words

Throughout high school I was playing competitive volleyball and had full intentions on going to a college for my sport rather than for my education. I had always been good at math and science and soon fell into a conversation with a friend's aunt about what engineering as a career could look like. I loved the idea of being able to take my skills in math and apply them in such a positive way. After I set my sights on a career in engineering, I made the decision to go to a top-rated engineering school rather than play volleyball collegiately.

Ending up at NC State in the Biological Engineering department was the best thing I could have done for my future self. I was still able to play on the competitive club volleyball team to get my athletic fix while being able to dedicate the necessary time to studying and building a social network. At school I was involved in my department through the American Society of Agricultural and Biological Engineering where I helped lead for two years.

In my third year I decided to search for an internship at a local civil engineering firm and landed in the Water Resources group at McAdams. For two years I learned under a great group of coworkers and built up my stormwater engineering skills. I quickly realized that McAdams was where I wanted to grow my career and accepted a full time offer upon completing my degree. Graduating in the middle of a pandemic was far from ideal but with 2 years of interning at McAdams under my belt, the transition was easier than expected.

I am now on our Capital Improvements Project team working on a multitude of projects. Most of my clients are in the Public Sector which has given me much joy to work so closely with the public. There's an innate drive to want to do good work for the public sector and directly help your community with the skills you've been given. The projects that I'm working on, my coworkers, and the resource groups available to me have propelled me into loving stormwater engineering more than I would have ever imagined.

Looking Forward

I'm looking forward to growing my network outside of McAdams and learning from peers within the Young Professionals group of APWA-NC. I plan to become more involved in person for events to be able to build stronger connections with my peers.

A Little Advice

Say yes to as many things as your mental and physical health will allow. By pushing myself and saying yes to things that have previously made me uncomfortable, I've been able to work on the soft skills of engineering that become so much more important the further into your career you get.

Mentor

Chris Stanley, PE + Josh Shinn, PE

Outside of Work

I am very involved in coaching volleyball at a local club in Raleigh. I coach a great group of 13-year old's that teach me every practice the importance of patience and having a little fun. I also love to adventure out to the mountains of Asheville or the beaches of Wilmington any chance I get!



CHARLOTTE, NC PEARL STREET PARK GREENSBORO, NC S. BUFFALO CREEK WATERSHED STUDY

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Call for Sustainability Spotlight Stories!

The APWA NC Sustainability Committee is looking for examples of environmentally sustainable infrastructure planning, projects, and practices to be featured in the quarterly newsletter. Please contact Mary Beth Meumann at mary.meumann@ bolton-menk.com if you are interested in featuring your story in a future newsletter! Following is a list of example topics for Sustainability Spotlights:

Planning and Policies

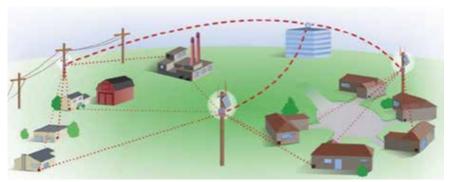
- Future land use, transportation, or utility growth plans which incorporate natural resources inventories and protection strategies
- Transportation plans which prioritize public transit and alternative modes of transportation
- · Plans which consider current and future impacts of climate change
- Ordinances or incentives which encourage redevelopment or discourage urban/suburban sprawl
- Ordinances or incentives which encourage Low Impact Development (LID) practices or strengthen environmental protections

Projects

- Green Infrastructure and LID components
- Restoration and conservation efforts
- Designing for resilience in the face of climate change and extreme weather
- Multi-benefit projects including constructed or protected natural features
- Projects which encourage or enable alternative modes of transportation, or reduce miles driven
- Energy-efficient or clean energy sources
- Sustainable materials (reused, recycled, natural, locally sourced or otherwise low-impact)
- Environmental education components
- Projects which exceed environmental requirements



Bicycle Master Plan



Advanced Metering Infrastructure



Warm mix asphalt and in-place recycling

Facilities, Operations, and Maintenance

- Good Housekeeping and Pollution Prevention training
- Illicit Discharge, Detection, and Elimination training
- Energy efficiency efforts and clean energy transition for facilities and fleet
- Sustainable pavement improvement methods and maintenance plans
- Advanced water metering infrastructure
- Reuse, recycling, waste reduction, and composting operations
- Materials management and training programs
- Rainwater harvesting
- · Reduced pesticide use



Bioretention and native plants

For additional examples and guidance, reference the APWA Center for Sustainability's (C4S) Sustainable Practices in Public Works report at C4S_SustainabilityPracticesInPublicWorks_small.pdf (apwa.net).

Note: Images sourced from APWA Center for Sustainability's (C4S) Sustainable Practices in Public Works.

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2023 Facilities and Grounds Conference

The Facilities and Grounds is excited to host the 2023 Facilities and Grounds Conference May 10th-12th at the Embassy Suites by Hilton Wilmington Riverfront in Wilmington, NC.

The 2023 conference will start off with the Facilities and Grounds Golf Tournament on May 10th that day and then a relaxing Partner Meet and Greet reception that evening at the hotel. The following two days will be an excellent opportunity to strengthen your skills and knowledge in an workshop setting with other colleagues. The conference will be filled with great speakers, round table discussions, a field trip to Town of Leland Town Hall Campus, great food, great prizes, and opportunities to meet and learn about our wonderful partners and the service they provide, and much more.

Partner and Attendee Registration is live and ready for signing up. Look forward to meeting everyone and having a great conference this year.



Stormwater Division Events

Greetings to all the great Public Works professionals in our APWA community from the Stormwater Division. We're excited to kick of another year with a great set of wonderful education opportunities that are relevant to our membership and will help everyone be even better at running their organizations.

Our first event will be a hybrid in-person/virtual education event on April 19th, focusing on Creative Public Engagement with the Community. We hope to give municipalities and consultant resources alike new and outside-of-the-box resources to usefully engage a wide variety of community stakeholders regarding stormwater issues. We're assembling a great group of speakers to help enlighten our audience so please keep on eye out for the registration notice.

Our second educational session will be on June 14th, with the topic still to be determined. This event will be offered in a hybrid in-person/virtual format, as well.

Finally, we have begun preparations for our annual Stormwater Conference on September 17th-19th. This year, we're thrilled to be back at the Sheraton Hotel in Charlotte and hope that this will be our biggest and best conference yet. Please keep an eye out for our call for abstracts and call for sponsors that will be coming out in the spring.

UPCOMING EVENTS ·

Stormwater in the Cloud: Public Engagement that gets People Talking! April 25th

Educational Session (Topic TBD)

June 14th

Stormwater Conference

September 17th - 19th

Sheraton Hotel in Charlotte

WELCOME **NEW MEMBERS!**

For upcoming events, click here!

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Engage the public works community and citizens through support, education, advocacy and outreach by creating opportunities for training, accountability, networking and growth for the benefit of all.