

SUMMER 2023

JUNE 2023

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## President's Message



**H**ello everyone!

I am pleased to share during this quarter that APWA-NC held two divisional conferences in May 2023. The Facilities and Grounds conference was a hit in Wilmington, NC and the Leadership and Management conference was a success in Raleigh, NC.

The Facilities and Grounds conference was held at the Embassy Suites, Hilton Wilmington Riverfront Hotel May 14-May 16, 2023. This event provided great topics and speakers which incorporated local tours of the Town of Leland. Let's not forget the awesome partners that showed up to support this event that provided great resources and networking opportunities. Dennis Stanley is this year's president of the Facilities and Grounds Division.

Leadership and Management's Division conference was held at the StateView Hotel, Autograph Collection located on NC State University's campus May 17- May 19, 2023. It started with the Public Works and Career Forum, which was digitized and will be distributed to Academic Professionals across the state at a later date. The participants for this initial Forum included several Public Works Professionals who each provided their own personal insights and experiences about public works. The LMD Conference encompassed great speakers and topics, as well as with a fantastic group of partners that provided our membership with opportunities to learn and engage in new ideas. We were also very excited to see so many new and first-time attendees at the LMD conference, as well as participants in the initial First-Timer/ New Member Mentorship Program. Theresa Little Watley is this year's president of the Leadership and Management Division.

I would like to say "Thank you" to all of the individuals (board members, directors, committee members, speakers, and partners) for all of their hard work in making each of these events memorable and engaging for the membership. Great job everyone!

This year, National Public Works Week was observed May 21- May 27, 2023. With the theme "Connecting the World through Public Works", many cities and towns across the state recognized the hard work of public works employees through key public services. Maie Armstrong, NPWW Committee Chair, collected over 30 municipal proclamations from municipalities observing and celebrating this important week. See the [website](#) for proclamations and photos from these celebrations.

I look forward to sharing upcoming events throughout this 2023 season.

Respectfully,

Mae H. Bryant

APWA-NC President

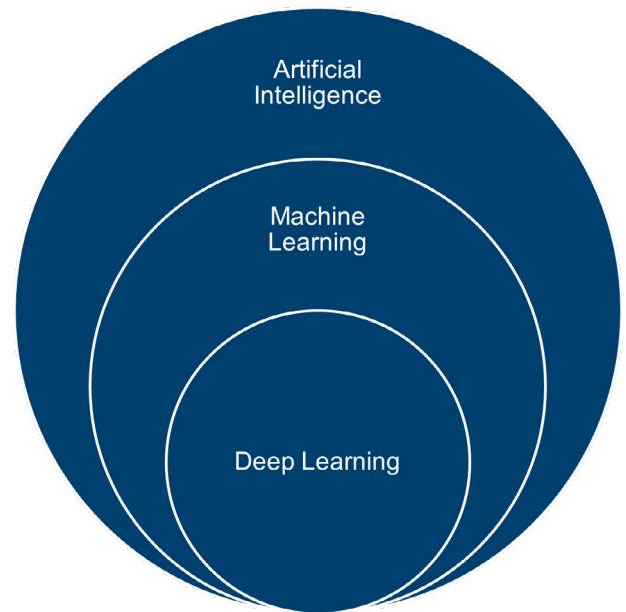
# COMMITTEE NEWS

## Why You Need to Know About GeoAI for Public Works

*By Adam Carnow, Public Works Industry Specialist, Esri, Technology Committee Member, Charlotte, NC*

Modern Public Works organizations seek to make better decisions using data and analytics. With technologies like the Internet of Things (IoT) powering real-time data streams from vehicles, personnel, sensors and cameras, organizations are producing larger amounts of quality data, most of it with a location component. As the amount of our data increases, it becomes harder to manually extract actionable insight from the data. This challenge creates an opportunity to use Artificial Intelligence (AI) to maximize the return on investment for data management. Most organizations have access to digital aerial imagery and AI allows for the extraction of new and insightful information from this valuable asset. Additionally, innovative organizations are turning their vehicles into data collection platforms to power AI-driven automation delivering insight and significant business value.

What is Artificial Intelligence? Artificial Intelligence, or AI, is the capability of a machine to perceive the information provided to it and achieve a stated objective or goal. AI was born as a field of research in the 1950's, but only recently has the evolution of computer technology enabled wide adoption of the use of AI. AI is a broad discipline that includes techniques and tools known as Machine Learning (ML) to derive insight from mountains of data. AI is the discipline; ML is the technology. Within ML there are a group of techniques known as Deep Learning (DL) that allow a computer to learn using a specific structure of algorithms.



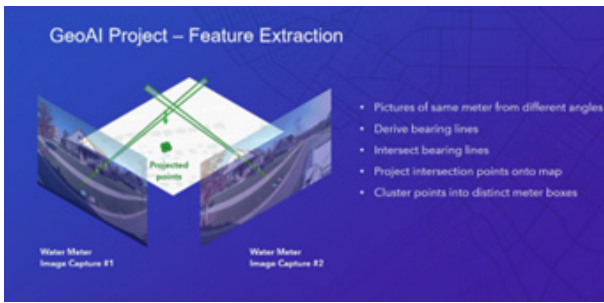
At [Esri](#), we have designed [ArcGIS](#) as a geographic information system (GIS) that turns data into location intelligence. ArcGIS allows us to derive actionable insight from location data including AI capabilities. This intersection of ArcGIS and AI is known as [GeoAI](#), which has been a part of ArcGIS for decades, whether interpolating a variable like elevation across an area, or the automated classification of imagery into land use/land cover maps. GeoAI is not a product, the GeoAI capabilities within ArcGIS span across the foundational components: [ArcGIS Pro](#), [ArcGIS Online](#), and [ArcGIS Enterprise](#).

The best way to understand the value of GeoAI to a Public Works organization is to review real-world success stories on how your peers are using it to improve operations and provide business value:

- [Machine Learning Streamlines Graffiti Removal in Tempe, AZ](#) – Tempe uses GeoAI to automatically recognize graffiti in images from truck-mounted cameras and then create work orders to remove it resulting in a 91% decrease in incidents.



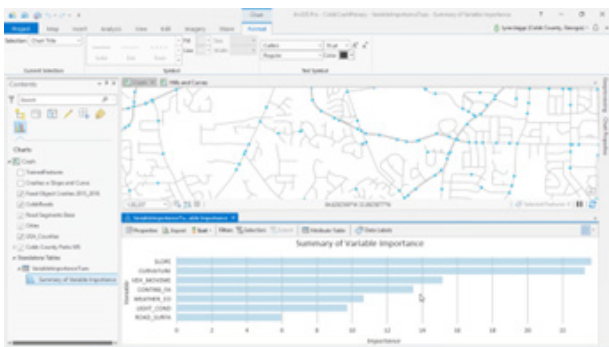
*Machine Learning Streamlines Graffiti Removal*



**Automatically Locating Water Meters**



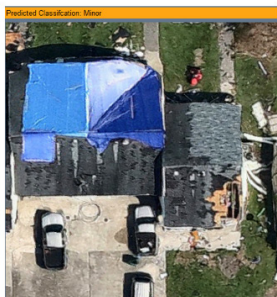
**Taking Inventory of ADA Curb Ramps**



**Analyzing Traffic Crash Data**

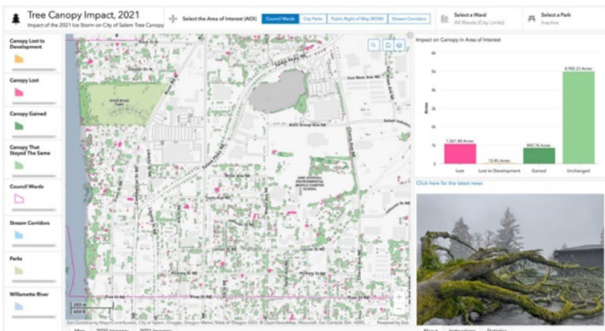


**Monitoring Pedestrian Volume and Managing Traffic**

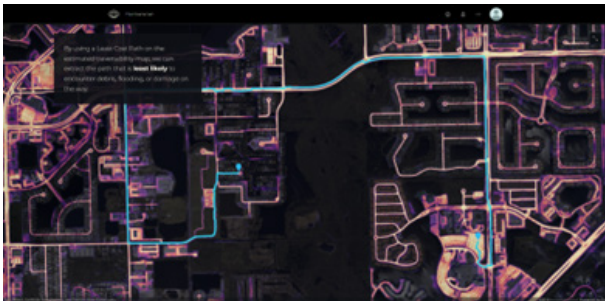


**Expediting Disaster Response**

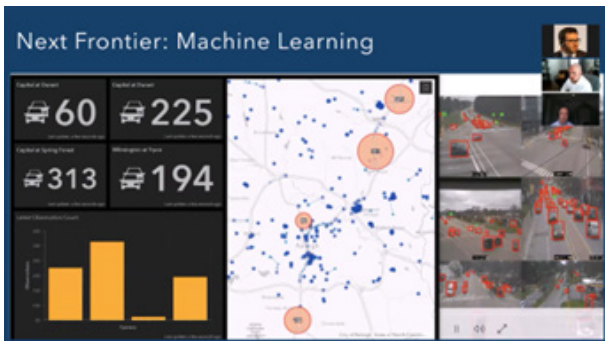
- [Charlotte, NC Water Using GeoAI to Automatically Locate Water Meters](#) – Charlotte Water uses GeoAI to automatically recognize and locate water meters in images from truck-mounted cameras resulting in annual savings of \$300,000.
- Douglas Co., NE Innovates Using GeoAI to Inventory ADA Curb Ramps – Instead of sending field crews to inventory the ADA curb ramps across the County, they use GeoAI to automatically identify and locate all 34,000+ ramps resulting in an inventory twice what they had and saving about six months of staff time.
- [Cobb Co., GA Analyzes Traffic Crash Data](#) – The County uses GeoAI to analyze multiple years of single-vehicle, fixed-object crashes to see if there were contributing factors. Results showed slopes and curves were the largest contributors, so the County can focus traffic improvement projects to reduce these dangers.
- [Cobb Co., GA uses GeoAI to monitor pedestrian volume and manage traffic](#) – The County uses GeoAI to monitor pedestrian volume and movement in real-time to adjust targeted traffic lights to minimize the impact on vehicular traffic and maximize pedestrian safety and fan experience for Atlanta Braves baseball games.
- [Dewberry is harnessing the power of machine learning for expedited disaster response](#) – Dewberry uses GeoAI to automate the identification and classification of damaged structures after disasters. Humans can perform 100 damage assessments per hour. The GeoAI method can perform 410,000 assessments per hour.
- [How visualizing ice storm damage aided Salem’s emergency response](#) – In the aftermath of an ice storm, Salem, Oregon uses GeoAI to compare before and after aerial imagery to quantify the number of trees lost citywide to assist in the recovery plan.
- [Hurricane Ian – Extracting road obstructions, flooding, and damage with GeoAI on over 1TB of aerial imagery](#) – Esri partner, SeerAI, uses GeoAI to analyze a massive collection of post-disaster imagery to assist in routing efficiency of EMS response to avoid impassable roads.
- [Raleigh, NC – How cities are turning GeoAI into Cost Savings](#) – Raleigh uses GeoAI to automatically identify and count vehicles and their movement through hundreds of traffic cameras at intersections across the City 24-7-365, replacing the need for contracted manual traffic counts. This results in cost savings and better traffic management: optimized traffic flow, better infrastructure planning, and more proactive management of incidents.



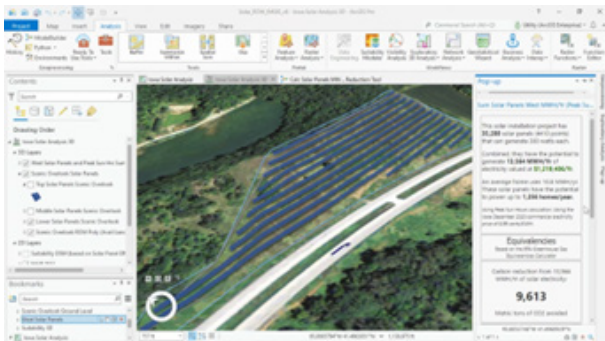
**Emergency Response: Visualizing Ice Storm Damage**



**Emergency Response: Hurricane Ian**



**Turning GeoAI into Cost Savings**



**Identifying Solar Energy Potential**



**Predicting Road Icing Risk**

- [The Ray helps DOTs use GeoAI to identify solar energy potential in the right-of-way and predict energy generation revenue](#) to unlock millions of dollars of potential new revenue and clean energy.
- [Sioux Falls, SD uses GeoAI to predict road icing risk](#) based on a 3D analysis of solar radiation, shadow accumulation, slope, and aspect, to prioritize high risk areas for snowplows to target.

## Why You Should Implement ArcGIS GeoAI Capabilities

As you can see, a wide range of innovative public works organizations are already using GeoAI in numerous ways to improve operations and deliver business value by:

- Turning their vehicles into data collectors and using the vehicle-mounted imagery to extract valuable data and automate processes (like graffiti removal, pavement condition, fighting blight)
- Extracting features and their locations from aerial imagery (like water meters, tree canopy, impervious surface for stormwater modeling and billing)
- Analyzing large data sets to improve decision making
- Turning traffic cameras into real-time data collectors that power valuable decision models
- Improving post-disaster response and recovery via analysis automation of before and after imagery
- Discovering opportunities and quantifying the value of new uses for right-of-way
- Using 3D modeling to predict conditions (like road icing risk and flood impact analysis)

To get started with GeoAI, please reach out to your Esri account team, or visit [this site](#) to learn more, and fill out the form at the bottom.



# A Crystal Ball for Your Pavement Infrastructure

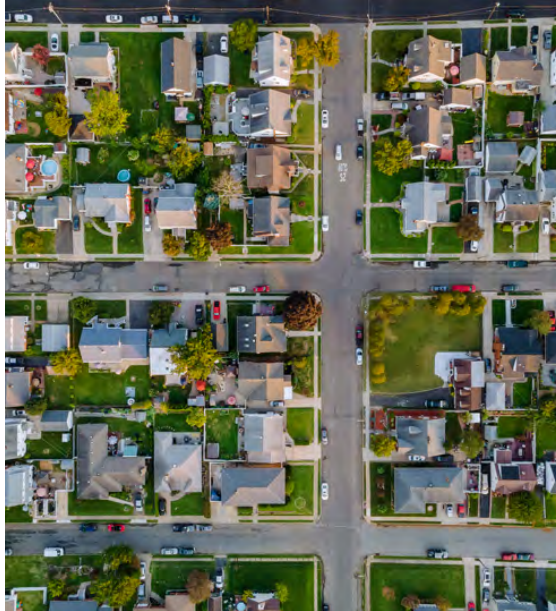
Data-Driven Insights on the Future of Your Pavement Infrastructure

You do more with less every year. You replace the worst roads first because you don't have time or tools for better data. You struggle to justify road investments to stakeholders more focused on other problems or flashier projects. Trying to keep up is a never-ending cycle of not enough budget, degrading infrastructure, and restless citizens.

How do you steward your road network through these challenges? You need a comprehensive pavement assessment and lifecycle planning solution from a proven partner.

**You need Pavement Authority by WithersRavenel.**

Our pavement-focused lifecycle planning program ensures you get the most out of your transportation budget: today, next year, next decade, and beyond. Pavement Authority combines advanced technology and unparalleled expertise to predict pavement replacement needs and the best strategies for treatment and maintenance. We model the full lifecycle of your roads with options for different pavement treatments and budget levels, giving you the tools you need to advocate for future-focused budget planning.



**Budgets are too tight to make pavement decisions without reliable data.**

**Learn More Today**

### Why Choose Pavement Authority?

- ▶ Data-centric approach that helps you understand your future options.
- ▶ We can work with existing survey data as well as utilize windshield and artificial intelligence surveying methods.
- ▶ We generate models of future pavement infrastructure status, adjustable for budget and treatment changes over time.

# PARTNER FEATURE

## Project Spotlight: How Bioengineering Restored Salem Creek

*By Bryan Dick, PhD, PE, PH, and Emily Brown, PE, ENV SP, CFM, Freese and Nichols*

Heavy rain in Spring 2020 severely eroded the steep banks of Salem Creek, which is nestled in the greenspaces of Winston-Salem. Flooding caused by 5-7 inches over 3-4 days created a potential crisis: 15-foot-high banks collapsed, sediment washed downstream, and the major force main and fiber optic line owned by the Winston-Salem/Forsyth County Utilities Commission were left exposed.

To prevent disruption of crucial wastewater and communications services, WSFCUC undertook an emergency repair, restoring the banks using bioengineering that combined mechanically stabilized earth walls and deep-rooted woody vegetation for long-term stability.

The solution shows how sustainable design can resolve even emergency problems. Incorporating natural materials and methods helped achieve results that are equal to or better than concrete and riprap – while also providing ecological enhancements and improving water quality.

### Identifying the Problem

The utility's staff had been monitoring slow erosion along a section of Salem Creek south of the city, but the situation turned perilous after extreme rainfall in May 2020. Though typical base flows were 3,000 cubic feet per second, downstream gage stations were registering flows upward of 35,000 cfs.

As design engineer, Freese and Nichols helped the WSFCUC assess the situation through site visits, drone imagery and modeling to determine the severity of the erosion and map the sediment movement. Among other things, the drones showed where sandbars had developed downstream and debris caused blockages within the channel.

### Developing the Repairs

Collaboration among WSFCUC, the design team and the on-call contractor reached the solution that balanced traditional engineering with contemporary approaches.



*Salem Creek (before restoration)*



*Collapsed bank of Salem Creek (before restoration)*



*Salem Creek (after restoration)*



***Salem Creek (after restoration)***

While traditional repairs have relied on increasing resistance to flow using configurations of hard materials, such as rock riprap, gabion baskets, driven sheet pile and concrete bulkheads, modern solutions recognize the stabilizing effects of vegetation on riverbanks, particularly deep-rooted native species such as bunch grasses, trees and shrubs.

Bioengineering blends engineered systems, such as mechanically stabilized earth walls with deep-rooted native woody vegetation, to ensure long-term stability of the streambank soil. Incorporating natural materials offers several advantages, including:

- The vegetation's thousands of roots and fibers in the soil cut through failure planes and bind soil together.
- A bioengineered solution is often more acceptable and easier to permit with resource agencies because the restoration of riparian vegetation provides other ecosystem benefits, including wildlife habitat, sediment sequestration and shading along the streambank.

The final design included a boulder toe composed of stacked rock with vegetated reinforced soil slopes – or bioengineering – placed above to stabilize the banks while

also contributing to site aesthetics. Using the river's natural flow on bedrock, the system works with the landscape to guide the river along the best path.

### **Reaping the Benefits**

The design was completed in one month, with construction finished three months after that – and the endangered services continued without interruption.

The solution for rebuilding the streambank protected crucial infrastructure for wastewater and communication services and yielded multiple other benefits:

- Reducing sediment loads in the stream, thereby improving water quality
- Decreasing nitrogen and phosphorus in the streambank sediments, reducing sediment-bound pollutants
- Promoting long-term bank stability and ecological enhancement as the native trees mature
- Facilitating better flow of water along the creek to reduce chances of future erosion at this location

5

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# DIVISION NEWS

## 2023 Leadership and Management Division Conference May 17<sup>th</sup> – 19<sup>th</sup>, 2023

This year we had over 80 attendees (split almost 50/50 public and private) join us in Raleigh, NC! A special thank you to the **18 first time attendees** that joined us this year! We had a wonderful conference packed with education, fellowship, plenty of good food, and axe throwing! Special thanks to all our Partners who make this wonderful week possible! Looking forward to seeing everyone next year!



### Your 2023 APWA-LMD Board

#### Back:

Allison Wilson – *Ad-Hoc*  
Michelle Podeszwa – *President Elect*  
John Mullis – *Ad-Hoc*  
Adam McLamb – *Vice President*  
Josh Hurst – *Past President*  
Frank Gioscio – *Director*

#### Front:

Jacqueline Thompson – *Director*  
Theresa Little Watley – *President*  
Mackenzie Nowacki – *Director*  
Morgan McIlwain – *Director*

#### Not pictured:

Andrew Parker – *Secretary*  
Russell Byrd – *Ad-Hoc*  
Ty Colwell – *Ad-Hoc*

## Save the Date!

### 2024 Leadership and Management Division Conference

May 15<sup>th</sup> – 17<sup>th</sup>, 2024  
at the Crowne Plaza in Asheville



CHARLOTTE, NC  
**PEARL STREET PARK**



GREENSBORO, NC  
**S. BUFFALO CREEK WATERSHED STUDY**



# READY + RESILIENT



Our talented Water Resources professionals continue to work with local NC communities to assess and provide critical infrastructure improvements. Check out our website to learn more about our on-going work across the State.

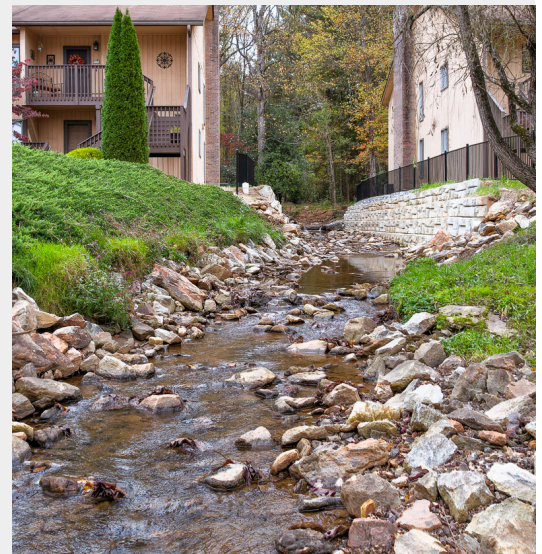
## NAGS HEAD GRANT ASSISTANCE

NAGS HEAD, NC



## PEBBLE CREEK

ASHEVILLE, NC



# SAVE THE DATE!

The APWA-NC Technology Committee

*presents*

## 2023 GISP Certification Workshop

**7/26/2023**

**This workshop will cover information about the GISP certification + the process for applying and renewing your GISP Certification.**

Tripp Corbin, MCP, CFM, GISP is an award winning certified trainer with over twenty years of experience orchestrating and managing surveying, mapping and GIS projects. He is recognized as an industry expert with a variety of geospatial software packages including Esri, Autodesk, Leica and Trimble products. Tripp was the primary author of several of our GIS courses including: Using AutoCAD data in ArcGIS class, ArcGIS Desktop Associate Exam Prep, ArcGIS 10: What's New and assisted in the development of our ArcGIS Server Basics class. He is also a member of the Board of Directors for the GITA Southeast Chapter and a past board member of URISA International and the Georgia URISA Chapter. Tripp holds many certifications including GIS Certified Professional, ArcGIS Desktop Associate & Professional, ArcGIS Enterprise System Design Associate, CompTIA Certified Technical Trainer, Microsoft Certified Professional, URISA Workshop Instructor and Certified Floodplain Manager.

**GISP Certification shows that a geographic information systems (GIS) professional has met the minimum standards for ethical conduct and professional practice as established by the GIS Certification Institute (GISCI). Certification is designed to recognize expertise. - [gisci.org](http://gisci.org)**



### **Date**

Wednesday, July 26, 2023

### **Time**

2:00pm — 4:00pm

### **Location**

Institute for Transportation  
Research and Education  
909 Capability Drive  
Raleigh, North Carolina 27606

### **Cost**

APWA Members: \$25

Non-members: \$30

Sponsorship: \$100

### **How to register**

Details to Follow!

### **Questions??**

Jason McMahon, GISP

Email: [mcmahon.jason.d@gmail.com](mailto:mcmahon.jason.d@gmail.com)

Phone: 919-610-6925



# DIVISION NEWS

## Stormwater Management Division Events

The Stormwater Management Division of APWA-NC is pleased to report on the most recent successful virtual educational event held by the Division, as well as inform of upcoming events for 2023.

### **The Stormwater In the Cloud: Public Engagement That Gets People Talking**

The event was very well-attended and the presenters did a wonderful job showcasing their unique approaches for getting stakeholder groups and the community at large engaged in the process to tackle infrastructure and water quality issues. As always, the support of the Division's wonderful sponsors is greatly appreciated, special thanks to a very special thanks to McAdams, Brown and Caldwell, WSP, Raftelis and to all of the presenters! Stay tuned for upcoming info on another great virtual session later in the summer.

### **2023 Stormwater Management Division Annual Conference**

The Stormwater Management Division Annual Conference is scheduled for September 17-19, 2023 at the Sheraton Charlotte Hotel in Charlotte, NC located at 555 S. McDowell St. This location offers excellent access to the Charlotte Uptown area and the Division will be offering multiple social opportunities for the networking and engagement that the attendees have come to look forward to. As always, we look forward to the great presenters and presentations, please note that the deadline for abstract submission has been extended to May 26, 2022. The conference will also host a golf outing on Sunday the 17th at a local course, as well as a group yoga session for those that are looking for a bit of relaxation and introspection before a few days of top-notch presentations.

As always, this Conference would not be the event that so many have come to look forward to without the generous support of our partners. This year's venue will be great for showcasing your firm, please contact Matt Gustis at Matt Gustis [Matt.Gustis@charlottenc.gov](mailto:Matt.Gustis@charlottenc.gov) for more information about sponsorship.



*Sheraton Charlotte Hotel in Charlotte, NC*



# DIVISION NEWS

## Facilities & Grounds Division Annual Conference

The Facilities & Grounds Division recently held our annual conference in Wilmington at the Embassy Suites by Hilton, and it was a great success. There were around 50 attendees and 16 Partner that attended the conference. The Golf tournament saw 8 full teams that competed at Beau Rivage golf course.

Topics discussed this year included ADA; Tree Pruning Purpose, Techniques, and Safety; Benefits of Roof Coating vs Traditional Roofing; Preventative Maintenance/Design Build; Communication is Key. CEUs were awarded for each session.

This year the conference offered a field trip to the Town of Leland Town Hall Campus. Participants experienced a hands-on demo of Greenworks and Ventrac mowers and other landscape equipment.

The Embassy Suites was a great waterfront location for our conference. Attendees enjoyed accommodations and social gatherings throughout Wilmington's Downtown area. The food was also great.

We are thrilled with the success of this conference and are looking forward to the rest of our events this year.



*Facilities & Grounds Division Annual Conference*

# IN THE COMMUNITY

## Young Professional Spotlight

**Gabby Fitts, Stormwater Specialist, Young Professional APWA-NC Chairperson**

Submitted by APWA-NC Young Professional Committee



### Get to Know **GABBY FITTS**

- **CAREER:** Stormwater Specialist at the City of High Point
- **INDUSTRY SECTOR:** Stormwater
- **APWA-NC MEMBER SINCE:** 2022

**Gabby received her Bachelor of Science in Environmental Management & Policy from the University of North Carolina at Asheville in 2017. After a few years working in urban forestry in California, she moved back to the Carolinas in 2022 to start her career in stormwater.**

### In Her Own Words

In college I wasn't sure where my career path would take me. I made sure to dabble in and experience as much as possible, embodying the old saying "a jack of all trades is a master of none, but often times better than a master of one." I joined AmeriCorps after college and was introduced to the world of urban forestry, which brought me across Central and South America.

I started at the City of High Point in 2022. I was not aware that stormwater was a career path I could pursue but I have grown a passion for over the last year. I love being able to pull from my previous experience to contribute to advancing water quality and management in the Piedmont Triad.

### Looking Forward

Gabby is looking forward to meeting people in the Stormwater network and making new connections. She is hoping to become more involved in APWA, an organization that she feels matches her values of enhancing communities.

### A Little Advice

I think it is important to take all opportunities that come your way. You never know who you will meet, what new skills you will walk away with, and problems you can create solutions for.

### Mentor

Robbie Baker, Stormwater Operations Analyst, City of High Point

### Outside of Work

Outside of work I can usually be found hiking a new trail, hula hoop dancing on the beach, biking a greenway, or working on a new project in my wood shop.

# IN THE COMMUNITY

## Retention > Recruiting? It's Worth A Shot!

*Jon Hogan, Public Works Operations Manager, City of Lenio, Streets Division Board Member*

Having trouble hiring maintenance staff? How about certified operators? If so, welcome to the club! It is unfortunate that 90% of the conversations I have with Public Works colleagues end up revolving around this current struggle “we simply can’t find anyone that wants to work.” While we are all feeling the pressure and scampering to find ways to alleviate the problem, I’m honestly not sure that there is a quick fix to the issue. However, with the main focus on recruiting I feel like we have a tendency to miss the fact that we all probably have a solid core of dedicated Public Works Professionals that show up every day ready to take on whatever challenge comes their way. While attracting and recruiting new employees is a nightmare right now, losing those core staff members could be far worse.

While many folks are motivated by the dollar (there’s nothing wrong with that) there are still plenty out there that who are career driven and motivated by accomplishments and for simply being acknowledged for the great work they do. Did you know that APWA Streets and Equipment Services Divisions have many opportunities to nominate those dedicated, core staff members for awards and scholarships? Not only do these opportunities show your appreciation for their hard work locally but it could also lead to the spotlight at the Annual Chapter Conference! Directors, Managers and Supervisors it does require a little work on your part and there are deadlines. However, those applications are live now and we are ready to award some well deserving Public Works Professionals, it’s worth a shot! See the listing, links and deadlines below!

### Streets Division Awards & Scholarships

#### Street Division Achievement Award

- Deadline: August 1, 2023
- [Street Division Achievement Award](#)

#### Street Manager of the Year Award

- Deadline: August 1, 2023
- [Street Manager of the Year](#)

#### Street Division Scholarship

- Deadline: August 23, 2023
- [Street Division Scholarship](#)

### Equipment Services Division Awards & Scholarships

#### Fleet Manager of the Year

- Deadline: August 1, 2023
- [Fleet Manager of the Year](#)

#### Fleet Technician of the Year

- Deadline: August 1, 2023
- [Fleet Manager of the Year](#)

#### Equipment Services Division Scholarship

- Deadline: August 31, 2023
- [Equipment Services Division Scholarship](#)



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# IN THE COMMUNITY

## 2023 NCAPWA Backhoe Roadeo Results

We had 25 competitors pre-registered to compete representing 10 municipalities. The backhoe portion of the event was a pin drop where contestants were required to insert a pin into two traffic cones in the least amount of time. The mini-ex event required contestants to maneuver a tire suspended on a chain thru an obstacle course of traffic cones in the least amount of time.

### Winners:

Backhoe: Travis Killian representing Town of Hickory – 1:35

Mini-Ex: Brian Robbins representing City of Wilson – 2:11

### Backhoe Results:

Travis Killian, City of Hickory – 1:35

Brian Robbins, City of Wilson – 1:44

Jake Mullis, Town of Matthews – 2:00

Blake Boykin, City of Wilson – 2:04

### Mini X Results:

Brain Robbins, City of Wilson – 2:11

Barry Hennings, Town of Southern Pines – 4:06

Cedric Coleman, City of Wilson – 4:14

Daniel Dixon, Town of Wake Forest – 4:45



**CONNECTING**  
THE  
**WORLD**  
THROUGH PUBLIC WORKS

**NATIONAL PUBLIC WORKS WEEK**

MAY 21-27, 2023

**Share your celebration of your Public Works Staff with us! Send photos and activities for your Public Works Staff Appreciation to [apwancadmin@ncsu.edu](mailto:apwancadmin@ncsu.edu)!**



# IN THE COMMUNITY

## APWA Testimonials

### From a APWA Member:

The NC APWA has been such a good form of education and endless contacts. I have taken bits and pieces from every show in some shape or form to implement new strategies, different equipment, and training in our work place every year. The contacts I have made between vendors and other municipalities has helped thru the ups and downs of this constantly changing fleet market.

– **Scott Odum**

*City Of Havelock Fleet Supervisor*

### From a Vendor:

Each year, APWA continues to prove to be an integral part of the world of Public Works. Specifically, the North Carolina chapter has allowed me as a vendor, to not only network, but also build friendships outside of the office, shop, and jobsite. The annual conferences give me a great opportunity to learn more about the challenges our customers face each day and help to provide solutions. As a member of APWA, I look forward to the next opportunity to provide value to both the organization and our customers.

– **Ian Kubinak**

*James River Equipment  
Garner, NC*



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to engineer and design infrastructure in  
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# WELCOME NEW MEMBERS!

For  
upcoming  
events,  
click here!

NAME	ORGANIZATION
Jaclyn Adriatico	TranSystems
Juan Almanza	Town of Kernersville
George Anagnostopoulos	
Noelle Arena	Pacific Geosource
Damon Boone	City of Suffolk
Scott Cox	
Alex DeLong, PE	
Joe Dolinger	Town of Morrisville Public Works
Trey Edwards	Carrboro Public Works
Tanner Everett	Rivers and Associates
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Brad Gagnon	
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Cory Sloan	City of Statesville

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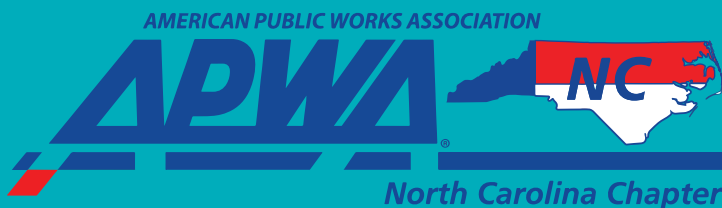
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