In December of 2015, APWA-NC held a Day of Engagement Summit in Raleigh, NC. That event explored ideas and topics focused on engaging our new members and asked how to reenergize those who had become less passionate about volunteering in the organization. This year, we decided to refocus our efforts on our Chapter Leadership.

For perspective, APWA-NC consists of seven technical divisions, a state executive board and a multitude of committees. Within each of those committees and divisions, there is a commitment to providing the best value to each of our members. Our leadership retreat on December 1st in Charlotte, NC, focused on collaboration between and among all the divisions and committees, and our charge was to find new and exciting ways to educate and invigorate our membership!! For instance, did you ever think how stormwater legislation could impact the way we collect refuse or the way we treat our roads during an ice and snow event? Have you thought about the diversity within your own Public Works organization and what management skills you have for that environment? Have you found it difficult to keep up with technology and wondered how you could get ahead of the curve? We explored all these topics at our Leadership Retreat, and we discussed how we can provide solutions, training and resources to any and all who need it.

We look forward to using all the great idea sharing that occurred at the retreat to serve you better!!

Thank You,
Barry Lowry, 2016 President Elect
President’s Message

My last message was written on my way to PWX in Minneapolis. It was an amazing experience, one that I hope you have a chance to take yourself. That possibility may get a lot easier. At our last meeting, the Executive Committee voted to take the first step in pursuing the prospect of bringing PWX to Charlotte in 2021. Over the next few months, we’ll be working diligently to determine whether this is the right obligation for our Chapter to take. The monetary and time commitments to host PWX are monumental, but the rewards to our membership are also immense. If we decide to proceed and are selected, be on the lookout, because we’ll need everyone’s help.

At PWX, we received our 15th Presidential Award for Chapter Excellence (PACE award), which is the highest award given to a chapter. For the second year in a row we also received an award for being the fastest growing large chapter of APWA. For the first time, this year our chapter has reached over 1,000 members! Brian Clements (City of Charlotte) had the fortune of being that member and is receiving a complimentary registration to the APWA-NC event of his choosing in 2017. It’s a hard choice, with the many outstanding conferences and workshops planned for next year.

There never seemed to be enough time, but with your help, we were able to accomplish a great many things in 2016. I’d like to thank all of the people in APWA who helped lead us to another very successful year. It was an honor to serve the members of this great chapter. I look forward to the exciting new things happening next year under the leadership of our 2017 Chapter President, Barry Lowry and I hope to see you at our 60th Anniversary Celebration at the State Conference in Greenville!

Respectfully,

C.J. O’Neill, P.E.
APWA-NC Chapter President

Congratulations to Brian Clements, City of Charlotte, on being the 1,000th member to join the North Carolina Chapter of APWA. Pictured left to right: C.J. O’Neill (President), Brian Clements, and Bob Wilson (Membership Chair).
This year’s international conference, rebranded PWX, was held August 27 through 30 in Minneapolis, Minnesota. About 40 people from the North Carolina Chapter were able to attend. Although the conference officially started Sunday, many people were there early for other activities—National Committee meetings, a self-assessment workshop, golf tournament, or a tour of the local breweries.

Sunday morning started off with a first-timer’s meeting for those who hadn’t attended a PWX before. The first educational sessions started at 8:30, with your choice of 10 different topics ranging from roundabouts to sustainability to dealing with millennials. After this was our first general session, which was given by Captain Scott Kelly, who had a fascinating presentation about his year-long mission to space.

This was followed by the opening of the immense exhibit hall and a day full of educational sessions. One of these afternoon sessions was given by Marc Horstman, PE, and our Past-President, Scott Whalen, PE, both of WK Dickson in Raleigh. The presentation was on regenerative stormwater conveyances, and used their experiences from around North Carolina.

Later in the day, Jeffery Brown, PE, helped to give a presentation on the key components of maintaining and managing facilities. Jeffery holds numerous roles including our Delegate to the Council of Chapters, 2016 President of the Facilities and Grounds Division, Chair of the APWA Facilities and Grounds Committee, and Engineering & Infrastructure Director for Cumberland County.

That evening was the Getting Acquainted Party, held at the Target Field baseball stadium. We were treated to chainsaw competitions, tours of the stadium and a very good live band.
Monday morning’s general session started off with motivational speaker Jeff Haven giving us good (and sometimes not so good) advice on how to “Uncrapify Your Life!” highlighted by his communication skill MYFABMOFA (make yourself feel awesome by making others feel awful).

Another informative session was the Public Works Director Roundtable, which brought together dozens of public works directors from around the country to talk about what most concerned them and their communities.

Tuesday started off with an early 5K run for those who wanted to take part. In the 8:00am opening session, keynote speaker Mel Robbins discussed how to improve your life and career using the “Five-Second Rule.”

Tuesday’s educational sessions included one on how Cary, NC used a streetscape project on Academy Street to help spur revitalization in their downtown. This session was led by APWA-NC member Josh Hurst and Kyle Hubert from the Town of Cary.

After a full day of learning, it was time for the time-honored tradition of our Chapter Dinner. This year’s dinner was on an amazing riverboat, which took us on a beautiful sunset ride down the Mississippi River. Our sponsors, Dude Solutions and LaBella Associates covered the cost of the dinner cruise, so all we had to do was to enjoy ourselves, which we did immensely.

Wednesday, the final day of the conference, gave people the option of attending education sessions or tours of various facilities and projects around the Minneapolis area. I took advantage of the tour of the new U.S. Bank Stadium, home of the Minnesota Vikings.

It included a guided tour of the whole stadium, including the luxury suites, locker rooms, and even the field itself.

Later in the day was a fascinating Closing General Session by Charles Marohn, who talked about his nonprofit organization, Strong Towns, and the hurdles that America faces with suburbanization and the need for continued growth and how we are currently depending on keeping our economy running at an exponential growth rate.

Next year’s PWX is August 27-30 in Florida. I hope to see you there!

C.J. O’Neill, PE
APWA-NC Chapter President
**Ode to Paul**

There once was a boy named Paul  
Who was loved and respected by all;  
but he gave up his boyhood to move into adulthood  
in order to answer life’s call.

He eventually moved to Garner  
and his wife he did warn her  
that he was going to work for Town Hall.

And so that promise he kept, even though he overslept  
on that first day, the most important of all.  
No need to worry, Paul was in a hurry  
to prove that his hiring was smart.

He came to work early and surely by surely  
Everyone was amazed at his start.

’Tis no small deed to be elevated to lead,  
A Department of this fair Town.  
The years they passed by  
and his work record does not lie,  
He lead his department so well, that  
they gave him a medal and so he could then settle  
into a retired form of life.

His Department will miss him  
and his crews they respect him  
for all the work that he did.

But we can never forget  
all the lives that he met and  
made better by his humble touch.

He now is retiring and the Town  
will be hiring a replacement for good old Paul;  
But we all know and the record will show  
that there is agreement by all;  
that whoever comes after will be pleased by the  
laughter at the memory of our dear friend Paul.

*By Council Member*  
Ken Marshburn

---

**Who will Answer the Call?**

Ring! Ring!  
From the most promising corner,  
To a great place to be.  
A challenge that’s tall,  
But a budget that is small.  
Who will answer the call?

Ring! Ring!  
From parks to streets, facilities and fleet  
The duties are many with deadlines a plenty  
Whether be summer, winter, spring or fall  
There’s always a field to prepare for ball.  
Who will answer the call?

Ring! Ring!  
A new park here; a neighborhood there  
Roads and sidewalks connect everywhere.  
Right of ways to mow, overflow in the stall  
I need these boxes moved from Town Hall.  
Who will answer the call?

Ring! Ring!  
Tournaments, parades and special events,  
We need more trash cans and pop up tents.  
A leader to handle all this and more  
By the way can you find someone to mop the floor?  
Who will answer the call?

Ring! Ring!  
Benefits, I’ll say there’s a few;  
Most notably leading a hard-working crew.  
National accreditation, the first in the state  
Now that’s an achievement well worth the wait.

It’ll take a special person, one with patience and all  
O who O Who will answer this call?  
Ring! Ring! Ring! Ring!  
**Hello, this is Paul.**

*By Rob Smith*
the PIVOTED TURNBUCKLE Manhole Riser
The Most Efficient and Powerful Expanding Riser on the Market.

Easy PIVOTED TURNBUCKLE Adjustment!

Made in the USA

Riser heights ¾” and up in all diameters. 1” diametric variance and DOT approved in most states.

This Manhole Riser will reduce your resurfacing costs. Our Manhole Risers are famous for having a quick and powerful expanding PIVOTED TURNBUCKLE. One Day Service Available!

Manhole Safety Ramp
A cost effective reusable solution for protecting exposed manholes. Provides smooth riding while guarding the riser. Installs easily. Eliminates cold patch.

Catch Basin/Inlet Riser
Don’t leave your Catch Basin grates low, creating a pot hole when you can bring them up to grade quickly, efficiently and reliably using our riser.

Valve Box Riser
Our patented Compression Gas/Water Valve Risers come with American-made quality you have come to expect from all of our products.

Safety Ramp
Allows smooth, safe passage for motorists over transverse milled edges, steel utility plates, end of day joints, and at bridges. Reusable alternative to cold patch.

Inclined Manhole Riser
Now you can RAISE and TILT the manhole cover to match the crown of the road. Unique PIVOTED TURNBUCKLE design makes installation reliable and quick.

Rubber Adjusting Ring
Will eliminate noise and vibration while providing a watertight seal. It will also protect the substructure from damage. Quick and easy to install.

Sewer Lid Seal Kit
Eliminate lid vibration and reduce moisture penetration. It provides a reliable long lasting gasket between lid and casting to keep out moisture and debris.

Utility Locator
Adheres to any surface and pops-up after being paved over with up to 5 inches of asphalt for quick locating and identification. Easily mark all types of utilities.

E-Z Lift
The EZ-LIFT was designed to unseat, lift, and set down a concealed pick hole manhole cover in one smooth motion. Let EZ-LIFT do the dirty work for you.
Does your Stream Need a Makeover?

Over the past few decades, Little Jackson Creek, SC, went from a meandering stream with regular floodplain access to a channelized ditch suffering from severe, regular erosion, poor water quality and an impaired aquatic habitat. WK Dickson prepared a stream and wetland restoration plan and design for the creek that involved the design of two regenerative stormwater conveyances (RSC). RSCs, a series of riffles and pools designed in a specific way that limits erosion and reduces the amount of sediment and pollutants that enter receiving waters, are becoming recognized as solutions to the issues of urban stormwater runoff. RSCs combine the features and treatment benefits of more traditional stormwater BMPs; however, they have the ability to positively impact both water quality and quantity.

By restoring over 1,500 feet of Little Jackson Creek, nearly nine acres of its adjacent wetland and installing a RSC along over 3,500 feet of the Up Ditch, the project provides significant functional uplift and water quality improvements to one of Richland County’s most impaired watersheds.

This project with Richland County is the first of its kind for a community that continues its interest and commitment to finding new and innovative ways to protect its citizens and the environment, while simultaneously maintaining careful stewardship of its financial resources. Quinton Epps Director, Richland County Conservation Department Director, shares, “The restoration site is particularly complicated because of its ownership, urban hydrology, and very public nature. This project is an incredible example of how multiple organizations and funding sources can work together to restore streams and wetlands.”

The RSC has already been put to the test once during Hurricane Hermine and performed with positive results.
History in the Making

So, I was asked to help with the 60th anniversary project and pulling together some history for the Solid Waste Division. It didn’t take long, and I have to Thank the folks at ITRE (James Martin) for sharing so much of those scanned documents. I would also have to Thank Magda Holloway for suggesting that the Chapter pay to have these documents scanned in the first place.

Here’s what’s funny, I served as the Chapter Historian several years ago and worked closely with Keith Pugh to pull together past Award winners and past Presidents for the Chapter and the Divisions. Keith and I visited ITRE and took our own scanner where we scanned a box or so of old documents. A few years later I can recall meeting with Ron Geiger in High Point to pass off discs and a few boxes that I accumulated over the year I served. Now - and in hindsight, I feel like I should have done so much more. As I started reading through the recently scanned documents from ITRE, I realized quickly how little I know about our Chapter’s History. I mean, I read the first history publication that celebrated the 20th anniversary, but that barely scratches the surface. Reading through all the minutes, newsletters, and other correspondence made me realize how much the leadership at that time helped to form something so great, that has touched thousands of lives over the years. I can’t begin to guess how many hours of instruction have been provided, or how many possible opportunities vendors had after a chance meeting with a conference attendee. As a part of my job pulling together the history of the Solid Waste Division (AKA Municipal Sanitation Division), I had the chance to interview past Presidents, current Presidents, and Vendors (now we call them Partners) that help make us successful. I’m totally blown away by the first years financial records that show $400 in revenue and only about half of that being spent on materials. I’m also very impressed by the professionalism that so many exhibited as they helped form our chapter. Recently, I had the chance to talk to Wayne Nall, a former Division President, Chapter President, and House of Delegates representative. For those who don’t know Wayne, he was one of the five (5) men that helped form the North Carolina Chapter of APWA. He was also one of the men who recognized the need to branch off from, at that time, a strong relationship with North Carolina State University. No Barry, not because he was Tarheel, because you know I asked that question... instead, it was because they felt like there was a little stagnation in how they fulfilled our memberships training and development needs and our mission. When I interviewed Wayne, he told me that he had recently stopped working, so of course I had to ask... See, Wayne retired about 20 years ago, but he only stopped working 3 years ago when his wife had some health issues. Wayne is 80 years old now, and I’m pretty sure he never skipped a beat with his stories about how the Chapter has shaped so many lives. He just reinforced to me how lucky we are now, to have had those leaders at the time who saw the need for action. Now maybe it’s because there’s an election going on this year, but reading all of

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that information and talking with Wayne made me feel very patriotic. It might sound crazy, but to know that so many did so much (yes as volunteers) back then to form what we now call APWA-NC. I could go into a lot more detail about the First Newsletter I ran across from 1978, or the National Public Works Week proclamation that Governors Holshouser and Hunt signed. Or - I could talk about the Region III Conference that our Chapter hosted in 1976 and how they started the planning process in 1973. Or - I could really bore folks and talk about the financial audits from years past. Or - and I'm guessing most of you didn't know this, I could tell you how in 1984 the Chapter worked tirelessly to assemble a Public Works exhibit that appeared in the North Carolina Museum of History in Raleigh.

Instead, I want to challenge everyone to think about what they've gained by being a member of our Chapter and think of a memory from a workshop or conference. Now - if you're inclined to do so, shoot me an email and include pictures (if appropriate). I would also encourage every current Division or Chapter President to send me a quick email summarizing their year as President. And now, I'll go even further – I challenge all the past Presidents to share their experience and best memory of their year as President. See - the only way we can document history is to actually document it. Don't get me wrong, I'm not taking anything away from the Newsletter, because Jo Anne is doing a great job – and as many of us have noticed there's a lot more content than in past years. What I can tell you is that history fades away and can be forgotten if it's not written down.

I would also challenge each division to try and have someone on their board to act as the division historian. Whatever is written doesn't have to be “fancy”, but as my HR department tells me, if it's not documented – it didn’t happen...

Please share your what you can chip.vandrezee@highpointnc.gov.

Thanks,
Chip Vanderzee, City of High Point
As we continue to celebrate the Chapter’s 60th Anniversary, we bring you a glimpse into the past on the conversations of the Chapter nearly 40 years ago. How has our Chapter changed, what was important back then that is still relevant today, and what can we learn from studying the past?

Harriet M. Berry

When the North Carolina General Assembly of 1921 authorized the issuance of $50 million in bonds to establish a state highway system, the Raleigh Times described it as “primarily the work of Miss Hattie Berry of Chapel Hill, secretary of the State Good Roads Association.” Miss Hattie had always proved “willing and able to furnish actual, usable information on anything connected with the roads of the State, [and] to her more than to any one person or groups of persons is due the thanks of those who desire to bring North Carolina out of the mud.”

Echoing similar sentiments, the Raleigh News and Observer credited Berry with “one of the most stupendous pieces of legislation in the history of the state... It was her bill in the beginning, and it was her indefatigable work that held the General Assembly in line until it had voted.”

At a time when many observers still considered women suffrage a radical idea, Harriet Morehead Berry took the lead in enacting what some critics viewed as the “most drastic piece of legislation... ever... attempted,” a program “too idealistic for North Carolina.” Berry’s opponents, however, had consistently underestimated her. Her triumph appeared to come quickly, but it was in fact the culmination of years of diligence, persistence, and more than a little pluck.

Harriet Morehead Berry was born in Hillsborough, North Carolina, in 1877. She enrolled in the State Normal and Industrial College (now the University of North Carolina at Greensboro) in 1893, graduating four years later with a brilliant record. After teaching for a few years, Berry joined the staff of the North Carolina State Geological and Economic Survey in 1901. Originally serving as a stenographer and statistician, she was appointed secretary of the survey in 1904. Through the efforts of Joseph Hyde Pratt, state geologist, and Hattie Berry the state’s geological survey became the cutting edge of the good roads movement in North Carolina.

Until the first decade of the twentieth century, the good roads movement was primarily localized. Often led by engineers, county organizations seeking short-distance, reliable roads to interlock with the nation’s railroads managed to build a few miles of macadam or soft-surfaced roads, but these quickly deteriorated with the introduction of the automobile and without proper maintenance. By 1910 proponents of good roads were thinking in terms of long distances, more tourism, and booming business opportunities.

The North Carolina Good Roads Association was formed in 1902. From its inception until 1919 the association had a small membership, few funds, and only Pratt and Berry to plead its cause through such publications as the Southern Good Roads magazine, the association’s official organ. The work of the state geological survey and the Good Roads Association often became indistinguishable in these years. Under the auspices of the University of North Carolina at Chapel Hill the survey held road institutes attended by county commissioners, road engineers, and public-spirited citizens who recognized the advantages likely to result from a state highway system.

In 1915 Berry helped to draft the law establishing the North Carolina State Highway Commission. This statute left road building in the hands of each county but authorized Pratt and his fellow engineers to begin laying out a state system of roads connecting county seats and main cities. The good roads movement received an additional boost in 1916 with the passage of the first federal highway act, which provided funds for road building in all the states. In 1917 the Tar Heel legislature authorized the state highway commission to accept federal...
aid, but the individual counties seeking those monies had to provide the matching funds. By 1920, 87 of North Carolina's 100 counties had sought and received federal funding for roads.

When the United States entered World War I in 1917, Pratt entered the army and Berry became the acting head of the geologic survey and the Good Roads Association. In Berry's words, she "had a free hand for the first time" to carry out some of her ideas. She called a meeting in Raleigh in December 1918 to discuss means of pushing the assembly to enact the necessary legislation for a state highway system. Berry drafted a bill that became the cause célèbre of the 1919 legislative session. Behind the scenes, Berry almost singlehandedly led the fight. With no stenographer, she had to do much of the work herself, burning "the midnight oil practically the whole time," she later recalled. Debate centered on the virtues of soft-surfaced roads versus hard-surfaced. The former were cheaper but inadequate to the demands of modern transportation. The good roads advocates chided supporters of soft surface as "dirt-daubers." But many businessmen and politicians opposed the idea of the state going into the road building business and especially disliked the long-term indebtedness associated with a large bond issuance. North Carolina had been dragged into the U.S. Supreme Court in 1904 by South Dakota and, in a precedent-making decision, was forced to pay in full certain railroad bonds it had scaled down drastically in 1879.

The Good Roads Association's bill failed to pass in 1919, but Berry had learned a lesson. She immediately set about organizing a statewide campaign to pressure the next legislature, sitting in 1921, to establish a comprehensive state highway system. During the next two years Berry spoke in 85 counties and traveled some of North Carolina's worst roads by wagons, buses, and automobiles. Women became key field workers for the association, recruiting new members, speaking in favor of good roads, and distributing propaganda.

Though frail in appearance, Miss Hattie possessed a strong voice and radiated a great self-confidence. She relished a good fight but never forgot an insult or slight. One newspaper called her simply "the best woman politician in the state."

She had to be, for by 1920 the campaign for good roads brought her increasingly under attack. A rival good roads organization, based in Charlotte, favored a trunk highway system connecting larger cities only. Berry, on the other hand, insisted that the state highway system connect every county seat and principal town. Larger, wealthier counties realized that under such a system their tax money would in effect be paying for the maintenance of roads in weaker, rural counties. But Berry argued that commerce and society would benefit immensely from good roads tying rural and urban communities together. These opposing views led to a rift in the good roads movement, and in November 1920, shortly before the General Assembly convened, some members of the executive committee of the Good Roads Association suggested that a man administer the campaign for good roads during the coming legislative session since it might be too much for a woman. To that notion Miss Hattie icily replied, "The weak shoulders of a woman have for the past fifteen years carried this proposition, and I propose that the weak shoulders of a woman should continue to carry it."

She won her point, but the fight wasn't over. The new governor, Cameron Morrison of Charlotte, recommended in his inaugural address that the counties pay for half the cost of building and maintaining roads. The Good Roads Association was stunned. Poorer counties could not possibly raise enough tax revenues for a massive road building program. At a dramatic conference with Governor Morrison, good roads backers urged a 5,000-mile highway system funded by the state. Miss Hattie pointedly reminded the governor that a plank in the state Democratic platform of 1920 (which she had drafted) called for the state, not the counties, to build roads. At the meeting Morrison told a reporter that, "If it hadn't been for that wais-ship woman I could have had my way."

The success of Berry's campaign to organize grass-roots support for a state highway system can be measured by the fact that the Good Roads Association grew from 272 active members in 1919 to 3,741 in 1920 and 5,500 in 1921. Over 25,000 names had been collected on petitions for good roads and over 195 circular letters had been mailed out in less than two years. By the time the legislature met in 1921 the passage of a state highway system act was a foregone conclusion. During the debate in the assembly, Berry was given a desk next to the speaker's where she answered innumerable notes from assemblymen on the floor. The 1921 law embodied the principal features of Berry's program. It provided that the state "lay out, take over, establish and construct, and assume control of approximately 5,500 miles of hard-surfaced and other dependable highways running to all county seats, and to all principal towns, State parks, and principal State institutions, and linking up with State Highways of adjoining States and with National Highways..." Moreover, the expense of construction and repair was to be borne by the state, relieving the counties and cities and towns... of this burden.

The good roads movement in North Carolina, coming as it did near the climax of the Progressive era, dramatically changed the nature of state government and control to state financing and responsibility for roads and road building. It also represented government's growing professionalism and expertise in dealing with social and economic problems too large and too complicated for the local community or governmental unit to cope with effectively. But in the end it took the determination and dedication of one woman to galvanize the campaign for good roads. Berry's successful fight probably cost her her job, for she lost her post with the state Geological and Economic Survey in 1921. Later she returned to public service to help organize credit unions and savings and loan associations throughout the state before her retirement in 1937. When she died in 1940, few questioned her accolade as North Carolina's "Mother of Good Roads."
Listen & Learn Programs

Listen & Learn Programs are free for members. Please go to http://www2.apwa.net/events/ and click on Click, Listen & Learn Programs for more information. You will need to login to see the calendar of programs. A recording of each program will be available through the Members Library within one week of the live program.

January 19, 2017
What You Need To Know About Road Diets
Solid Waste Division Holds Fall Workshop

The Solid Waste Division held its Fall Workshop on October 26, 2016 at the Lake Mackintosh Clubhouse in Burlington, NC. The theme of the workshop was, “Safe or Scary, Which Kind of Driver Are You?” This workshop focused on providing training to solid waste operators. Informative sessions covered topics on Safety for Operators and Drivers, Defensive and Safe Driving Techniques, and the Smith’s Driving System. John Yvars, Sanitation Superintendent with the Town of Mooresville, gave a relevant presentation on safe procedures for solid waste operators and drivers out in the field. Trooper Todd Ray, NC Highway Patrol, gave a very informative presentation on defensive driving and safe driving techniques. Finally, Thomas Brown and Kenneth Adams, City of Greensboro, presented the Smith’s Driving System and the steps for its application in the solid waste field. There were 60 registered attendees at this workshop from several different local governments, including the City of Greensboro, Town of Chapel Hill, Orange County, City of Greenville, City of Gastonia, City of High Point, City of Sanford, and the City of New Bern. Based on the evaluations received from the attendees, the workshop was well received and a big success. Thanks to the Solid Waste Board for their hard work in putting together another successful training event.
The Solid Waste Division will hold its Winter Workshop in mid-February in Burlington, NC. Please be on the lookout for registration information coming for this workshop.

On a personal note, it has truly been an honor and privilege to serve as the President of the Solid Waste Division for the past year. I have enjoyed and learned so much from working with solid waste professionals from all across the State of North Carolina. I would like to extend very heartfelt and special thanks to the Solid Waste Board members for all of their hard work in making this a very successful year. I very much look forward to working with the new board next year.

Harold W. Haywood
Solid Waste Division President
APWA-NC Equipment Services Factory Tour in Kernersville, North Carolina

The North Carolina Equipment Services Division Board held a factory tour on November 18th, 2016 in Kernersville, North Carolina at the Deere-Hitachi factory. This tour brought together a diverse group of attendees from all levels of Public Works. This was exciting and motivational to the Board as we were successful in “crossing the line” and being able to connect with other Divisions within Public Works. The group had a great time in spite of the smoke that arrived mid-morning from the North Carolina Mountain wild fires while attending the tour. By early afternoon, the smoke had already made it east of Raleigh.

The tour began with a great presentation that shared the importance of safety in manufacturing, the different machines that the plant manufactured, the process from ordering to assembling the machines and the challenges of hiring and retaining good staff. This presentation was wrapped up with a question and answer session. During this session, many ideas were shared in regards to challenges of retaining good workers.

During the tour, the group was exposed to the many safety issues along with a passionate safety program that the manufacture uses to keep their employees safe. The group was able to view new manufacturing technology as well as seeing different ways of promoting efficiency on the job. Many new ideas were taken from the tour and placed in the attendees toolboxes for future use.

After the tour, the group joined together and had an outstanding box lunch. Immediately following the lunch, we engaged in a roundtable discussion. Many great ideas were presented for future conference topics, training needs during the year, the need and benefit of future fleet tours as well as suggestions for the Equipment Services Board, future conference topics, training needs during the year, the need and benefit of future fleet tours as well as suggestions for the Equipment Services Board.
2016 APWA-NC Combined Equipment Services and Streets Division Conference

By Nina Underwood

The 2016 APWA-NC Combined Equipment Services and Streets Division Conference was recently held in sunny Wilmington. The annual conference was attended by 116 registrants; just 6 less than attended in 2015. There were 89 vendors with 115 representatives present. They were all welcomed with beautiful weather and warm temperatures.

Hurricane Matthew, occurring just days before, caused severe flooding to eastern NC, forcing thousands from their homes, closed businesses, and overtook roads. Our hearts and prayers go out to the communities still recovering from this devastation. Numerous folks traveled hours, encountering many detours and road closures to get to us and just a few had to turn around and go back. Most made it.

In spite of the weather impact, there were only a few changes to the conference agenda. Sessions included topics on GPS/Telematics Solutions for the Public Sector, Public Relations Do’s & Don’ts, Snow & Ice Control, OSHA Safety Inspections, Dealing with Public Sector Purchasing Guidelines and Strategies for Pavement Management. Also, Terry Hairston presented an excellent program on Dealing with an Active Shooter.

The pre-conference activities included a golf tournament, sponsored by CES, Inc held at Castle Bay Country Club. A fishing tournament was held on Johnnie Mercer Pier sponsored by Sealmaster. Frank Gioscio of Vaughn & Melton won the award for most fish and smallest fish and Paul Cox, Town of Garner, won the award for biggest fish.

The attitude adjustment on Wednesday, held at the Best Western Coastline Convention Center, was well received with appetizers, beverages, corn hole and plenty of fellowship. The attitude adjustment on Thursday evening, held on the Rooftop of Reel Café, turned into an impromptu birthday party for Streets Division President Magda Holloway. There was plenty of food and drinks and fun was had by all!

The Streets Awards banquet held on Thursday recognized several special people.

The Streets Division Streets Manager of the Year went to Shelton Burnette of Chapel Hill.

Congratulations to Shelton for this great accomplishment!
Education scholarships were awarded to Michael Tolson ($1000) and Michael Phillips ($500), both from Rocky Mount, to continue their pursuit of MPA degrees at East Carolina University.

After the scholarship awards, Bill Woods, Program Coordinator with ITRE Local Technical Assistance Program awarded the 2016 Roads Scholar Certificates. Fourteen of the 56 recipients were in attendance and were recognized for their achievement.

Certificates were presented to the 2016 Advanced Roads Scholars. Eight of this year’s ten recipients were in attendance.

A special moment during the conference banquet was the testimonial of Board President, Magda Holloway. Before passing the gavel to incoming President, Jonathan Boone, she told the very personal story of her journey this past year and the roadblocks she encountered professionally.

The value she places in the relationships she has built in the APWA “family” was very evident in her speech. Magda took this opportunity to thank anyone who had been a part of her journey by asking them to stand.

We were all reminded of the outstanding benefits of an APWA membership. The valuable professional contacts provide us all with access to a wealth of useful information. But beyond the basics, the support system that each of us have at our ready, when needed, and the knowledge that this network of friends are there during challenging situations, can boost our confidence and alleviate some of the stressors from our jobs.

On Friday morning, the conference ended with a Streets Panel Discussion on the presented sessions and a number of topic ideas were suggested for our next conference. Survey results showed high marks were given for entertainment, development of strategies to improve business, ability to determine realistic goals to improve leadership and better able to increase focus on communication skills. Respondents said they most enjoyed networking, OSHA class and Active Shooter presentation, location, meeting new people, talking with vendors, speakers and, of course, the attitude adjustments.
Special thanks go to the Conference Partners who helped make this conference a success!

**Platinum (Event Partner)**  
Amick Equipment  
Carolina Industrial Equipment Inc.  
Godwin Manufacturing Co Inc  
S. T. Wooten Corporation

**Gold (Event Co-Partner)**  
Altec Industries Inc.  
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Precision Safe Sidewalks  
SEPI Engineering & Construction  
Slurry Pavers, Inc.

**Silver (Partner)**  
Diesel Equipment Company  
Kercher Engineering Inc.  
Vaughn & Melton Consulting Engineers

“Kids Making It” was our chosen charity. They were very appreciative of the donation.

Kids Making It is a nationally recognized non-profit youth program, teaching woodworking, life and entrepreneurial skills to at-risk youth from age 8 into young adulthood.

The goal is for KMI youth to stay out of trouble, stay in school, graduate and go on to the workforce or college, thereby maturing into successful adults. Through the design/build process, KMI youth learn patience, pride, perseverance, confidence, teamwork and self-esteem, building character and learning the truth of actions and consequences.

[http://kidsmakingit.org](http://kidsmakingit.org)

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**Letter from a Streets Conference Partner October 2016**

Magda:

I got a quick chance to visit with you today in the exhibit hall. Again, wanted to thank you for sharing your story. It was huge day for you. Your birthday, achieving the Advanced Road Scholar Award, and passing the gavel over to Jonathan Boone of Rocky Mount.

Even with the weather I thought it was a very good show for vendors. I cover 29 states for Bergkamp and do many of these events. I was here as a guest of CIE, but was very impressed by the effort of people to include vendors and there seemed to be a great amount of time to network. Something else that struck me was when you described the Vendor Demos and Lunch and Learn that are available. I would like to learn more about this for 2017.

I have attached our basic information here and did get a chance to spend a little time with Chris Trull as well. Look forward to working with you in 2017. Thanks again, Magda.

Bill

**Bill Tharrington**  
Regional Sales Manager  
Government Business Unit

---

**Congratulations to our Grand Prize Winner of $500 – Craig Tolson**

Plans are underway for next year’s conference to be held in Hickory.

**Mark Your Calendar**  
– September 20-22, 2017
ON BEHALF OF THE BOARD OF DIRECTORS,
WE HOPED YOU ENJOYED OUR CONFERENCE!
Show your support for safe streets for ALL road users by donating your old shoes!

We need 1,387 pairs of shoes to represent the lives lost on NC roads last year. Any shoes, any size, any condition.

NC Vision Zero is a collaborative, data-driven program to eliminate traffic death and injury in North Carolina.

Questions? Tracy Anderson, ITRE or tracy_anderson@ncsu.edu

For more information on NC Vision Zero: ncvisionzero.org

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**Godwin Manufacturing and Good Roads**
North Carolina’s primary dump body and winter equipment providers

We are the NC contract holders for the following bids:

- 065A - Utility bodies, (flatbeds fit under this category)
- 065C - Dump Truck Bodies
- 10 & 12ft snow plows NC DOT bid/file #201500777, commodity 765-61
- 8ft snow plows NC DOT bid/file #20150061, commodity code 765-00

1-800-892-0181 • www.godwinmfg.com
This year’s annual APWA-NC Stormwater Management Division (SMD) conference was held on September 12th and 13th in Charlotte, NC. With over three hundred attendees and fifty exhibiting partners, the 2016 conference boasted its largest registration and attendance in its history! Attendance records were smashed at this year’s conference, which featured Mick Mixon from the Carolina Panthers as the keynote speaker, as well as a number of informative speakers within the stormwater field throughout the state.

This year, the Stormwater Professional of the Year Award was renamed the H. Rooney Malcolm Award as a nod to one of the greatest stormwater professionals in North Carolina, the late Dr. Herbert Rooney Malcolm, Jr. A touching moment at the start of the conference was when SMD President Michael Sloop asked everyone in the room who had been impacted by Dr. Malcolm—either directly or whose work had been influenced by him—to stand in tribute. More than seventy-five percent of the room stood in recognition, indicating their ties and connection to Dr. Malcom. This year’s award was bestowed to Mike Randall with the NC Division of Environmental Quality. Mike was selected as the recipient due to his hard work and dedication to help local governments achieve highly functioning stormwater programs. He also understands the challenges that small governments face and has shown determination to work with programs to increase their efficiency.

Other conference topics included regulatory and legislative updates from the League of Municipalities, watershed planning, local stormwater initiatives focused in Charlotte, stormwater BMP information, and many other key topics that are relevant to current stormwater issues in the state. The conference social was held at Howl at the Moon, which featured a dueling piano bar and a very tasty menu. Yeti give-a-ways were handed out to various conference attendees and the coveted conference T-shirts—featuring a famous Dr. Malcolm quote—were also handed out to all conference attendees. The conference wrapped up with a presentation given by Bill Hunt to keep things interesting and informative right to the very end!

Overall, this year’s APWA SMD conference was a huge success due to the hard work of the SMD board and other key members of the APWA team. It was an informative and enjoyable experience for the division, with a lot of positive feedback from attendees. The stormwater division looks forward to hosting the 2017 SMD conference in Greenville next year, which is sure to be another successful and spectacular event. Stay tuned for more information and be sure to register early.

by Jaclyn Sumner and Kara Meyers
Technology Division

Technology of the Future: Today

The Technology Division hosted its newest workshop entitled Technology of the Future: Today!

This workshop took place on Tuesday October 18, 2016 at the Herb Young Community Center in Cary, North Carolina. There were approximately 60 people in attendance.

This one day workshop highlighted the newest trends in technology within the public works profession. Topics included Smart Truck Technology for fleet management solutions; performance measurement and analytical tools; asset management solutions for the public sector; use of Drone Technology in public works; and using Mobile LiDAR data for capturing infrastructure and asset mapping.

We would like to extend our sincerest thanks to our gracious sponsors, FleetMind, Dude Solutions, Beehive Industries, LLC and Mattern & Craig.

Carly H. Dunno
APWA-NC Technology Division President

Upcoming Events

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>March 15-17, 2017</td>
<td>Construction Inspection for Public Works Projects, Raleigh, NC</td>
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<tr>
<td>May 3-5, 2017</td>
<td>Facilities and Grounds Division Conference, Kitty Hawk, NC</td>
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<tr>
<td>May 11-12, 2017</td>
<td>Advanced Construction Inspection, Charlotte, NC</td>
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<tr>
<td>June 28-30, 2017</td>
<td>2016 APWA-NC State Chapter Annual Conference, Greenville, NC</td>
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<tr>
<td>August 2-4, 2017</td>
<td>Administrative Management Division Conference, New Bern, NC</td>
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<tr>
<td>August 8-11, 2017</td>
<td>Solid Waste Division Conference, Atlantic Beach, NC</td>
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<tr>
<td>September 17-19, 2017</td>
<td>Stormwater Management Division Conference, Greenville, NC</td>
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<tr>
<td>September 20-22, 2017</td>
<td>Combined Equipment Services and Streets Divisions Conference, Hickory, NC</td>
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Welcome New Members

The NC Chapter of APWA would like to welcome the following new members, who have joined since August 26, 2016:

- Mr. Bobby Austin, City of Asheville
- Mr. Victor Jerwin Avila, Raleigh
- Mr. Timothy B. Bailey, Town of Wake Forest
- Mr. Jonathan Ballard, City of Asheville
- Mr. Jason T. Barnard, City of Eden
- Mr. Bobby Bratton, Town of Chapel Hill
- Mrs. Crystal Brown, EI, City of Concord
- Mr. Baeden E. Buckner, City of Greensboro
- Mr. Timothy Callicutt, Town of Kernersville
- Mr. Christopher Cates, Town of Carrboro
- Mr. James F. Chandler, Jr, Timmons Group
- Mr. Brian Clements, City of Charlotte
- Mr. Thomas B. Cooney, III, PE, Town of Spring Lake
- Mr. Bill Cowan, McGill Associates, P.A.
- Ms. Marlene Davis, City of Winston-Salem
- Mr. Steven Dawkins, City of Burlington, NC
- Ms. Sonya L. Debnam, City of Raleigh
- Mr. Andrew Dolch, Yadkin County
- Mr. Alan Dorman, Orange County
- Mr. Stephen Thomas Edwards, Carteret County
- Mr. Elbert Ford, City of Winston-Salem
- Mr. Steven Fussell, City of Fayetteville
- Mr. Tim Greene, S&ME Inc
- Ms. Susan Habina Woolard, PE, Town of Matthews
- Mr. Scott Hahm, City of Charlotte
- Mr. Robert Thomas Hardy, Jr., Town of Ocean Isle Beach
- Ms. Judy A. Hedrick, REP, Continental Research Corp.
- Mr. John Heffner, City of Greensboro
- Mr. Charles Hendrick, City of Winston-Salem
- Mr. Randy Huneycutt, City of Albemarle
- Mr. Jon Hunt, Dude Solutions Inc
- Mr. Earl J. Jackson, City of Winston-Salem
- Mr. Billy E. Jackson, II, City of Charlotte AP
- Mr. Bernie Kilmer, City of Burlington
- Mrs. Melinda Jane King, MCSE, City of Greensboro
- Ms. Kelly Traynham Lasky, City of Roanoke Rapids
- Ms. Alain Marti, City of Albemarle
- Ms. Kelly Mattfield, PE, Brown and Caldwell
- Mr. Mark McCabe, Town of Mooresville
- Ms. Morgan Mcllwain, PE, Freese and Nichols Inc
- Mr. Clement McMillan, City of Fayetteville
- Ms. Kelly Meli, City of Winston-Salem
- Ms. Andree Meli Ngambo, City of Winston Salem
- Mr. Cliff Micham, Intermedix
- Mr. Scott Michaud, Unit Paving, Inc.
- Mr. Steve B. Moran, City of Reidsville
- Mr. Tracy Nelson, City of Greensboro
- Mr. Brian Newman, McGill Associates
- Mr. Tyler Ohlmansiek, Autocar Truck
- Mr. Jason Palmer, City of Albemarle
- Mr. Ian Peterson, City of Durham
- Mr. Byron Wayne Poelman, Town of Clayton
- Mr. Herbert Allen Pope, PE, S&ME Inc
- Mr. Brandon Pritchett, Autocar, LLC
- Mr. Michael L. Rankin, Environmental Rental Services
- Mr. Bruce Sadler, Advantage Truck Center
- Mr. Michael Smart, Town of Mint Hill
- Mr. Carl Stukes, City of Greensboro
- Mr. James C. Tharrington, Town of Wake Forest
- Mr. Al W. Walker, City of Durham
- Mr. Nicholas S. Ward, City of Lexington
- Mrs. Lakisha White-Kelly, Town of Carrboro
- Mr. James D. Withers, Rivers & Associates, Inc.
- Mr. Alvin Ray Worner, Jr., Town of Wake Forest

The NC Chapter has passed the 1,000 member threshold! As of November 29, 2016, we stand at 1,013 members. Congratulations to Brian Clements of the City of Charlotte for being our 1,000th member.
Construction Inspection for Public Works Projects

(1.7 CEUs or 17 PDH credits)

March 15-17, 2017
Raleigh, NC
ITRE/NC State Centennial Campus
909 Capability Drive
Raleigh, NC 27606

Objectives
The objectives of this program are to introduce and review the basic concepts of construction inspection to public works inspectors. Topics include: discussing the role of the inspector in public works construction projects; duties, record keeping and interpreting contract documents; inspecting underground pipeline construction; understanding the fundamentals of soils, soils classifications, soil compaction, control of embankments, sub grades and stabilizing soils, understanding the fundamentals of concrete; understanding the fundamentals of asphaltic concrete, raw materials, mixed design and construction of asphaltic concrete; and other issues related to construction inspection.

Who Should Attend?
This program is designed for construction inspectors and supervisors of construction inspection (entry level: 1-5 years experience). The new, potential and experienced construction inspector or supervisor will benefit from the presentation of principles and practices of construction inspection.

Course Overview

Day One
- Construction Inspection: A Basic Overview
- Communication and Documentation
- Earthwork:
  - Construction Inspection—Lane Use Issues
  - Construction Inspection—General Processes and Procedures
  - Soil Characteristics, Testing and Evaluation
- Risk Management and Legal Issues
- Regulatory Overview

Day Two
- Excavation and Confined Space Safety
- Federal Compliance on Construction Contracts
- Pre-Project Preparation
- Trees and Landscaping
- Underground Pipeline Construction:
  - Water Utility Construction Inspection
  - Storm Drain Construction Inspection
  - Steel Pipeline Construction Inspection

Day Three
- Project Close-out Procedures
- General Concrete Construction Inspection
- General Structural Steel Inspection
- Street Surface Improvements
Registration Form

Construction Inspection for Public Works Projects

March 15-17, 2017
Raleigh, NC

Name: ____________________________________________
Title: ____________________________________________
Agency: __________________________________________
Address: _________________________________________
City, State, Zip: _________________________________
Telephone: _______________________________________
Fax: _____________________________________________
Email: __________________________________________

☐ $380 non-member ☐ $275 member

Registration fees for each workshop include course materials, breaks and lunch each day. Please make checks payable to APWA-NC and return this form with payment to:

Linda Collier
ITRE, NC State University
Campus Box 8601
Raleigh, NC 27695-8601

Email: linda_collier@ncsu.edu
www.itre.ncsu.edu/LTAP

Registration Information

Check-in will begin at 8:00 am on the first day of the workshop. The workshop will be held from 8:00 to 4:00 pm each day. Registration will be handled on a first-received, first-served basis.

EVENT CANCELLATIONS/REFUNDS:
If your plans change and you cannot attend an event, a colleague can attend in your place as these registrations are transferrable – please contact the event coordinator for details. Cancellations and requests for refunds must be submitted seven (7) days prior to the event start date.

An APWA Member/Attendee will receive a full refund, less a $20 administrative fee. Conference Partners who cannot attend an event will receive a full refund, less a $50 administrative fee. No refunds will be granted for "no-shows". Non-attendance does not excuse the participant’s financial obligation to pay the registration fees due to APWA-NC. Approved refunds will be processed as soon as possible. Please send your cancellation and/or refund request to the event coordinator.

All Cancellations are subject to a cancellation fee as outlined above. Any refund request submitted after the seven (7) day window may be brought to the Executive Board at the next regularly scheduled meeting for consideration.

Persons with disabilities who require special accommodation or auxiliary aids should contact ITRE prior to the workshop date so necessary arrangements can be made. Contact Linda Collier at (919) 515-7990 or email linda_collier@ncsu.edu.

Construction Inspection Workshop Sponsored by
APWA-NC Education Committee
and NC LTAP at the Institute for Transportation Research and Education
at NC State University
**Newsletter Submission Dates**

Each technical division is responsible for submitting at least one article per newsletter. Deadlines for 2017 are February 15, May 15, August 15, and November 15. Content of the article is very flexible. Suggestions include trends in your industry, information about your division conference, or simply projects in your area. This is your chance to get creative while educating others about what is happening in your division.

Please submit your articles and photos to Jo Anne Wiles at jwiles@wk dickson.com prior to **Wednesday, February 15, 2017**.

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### APWA-NC 2017 Officers

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>Organization</th>
<th>Phone</th>
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</thead>
<tbody>
<tr>
<td>President</td>
<td>Barry Lowry</td>
<td>Town of Chapel Hill</td>
<td>919.969.5143</td>
</tr>
<tr>
<td>President-Elect</td>
<td>Ken Martin</td>
<td>City of Charlotte</td>
<td>704.432.3141</td>
</tr>
<tr>
<td>Vice President</td>
<td>Eddie Staley</td>
<td>Withers Ravenel</td>
<td>919.469.3340</td>
</tr>
<tr>
<td>Secretary</td>
<td>Kathi Willis</td>
<td>City of Asheville</td>
<td>828.259.5451</td>
</tr>
<tr>
<td>Treasurer</td>
<td>Dale James</td>
<td>Moffatt &amp; Nichol</td>
<td>336.674.3130</td>
</tr>
<tr>
<td>Past President</td>
<td>C. J. O’Neill, P.E.</td>
<td>Town of Matthews</td>
<td>704.708.1242</td>
</tr>
<tr>
<td>Chapter Administrator</td>
<td>Linda Collier</td>
<td>ITRE</td>
<td>919.515.7990</td>
</tr>
<tr>
<td>Historian</td>
<td>Ron Geiger, P.E.</td>
<td>HDR Engineering Inc.</td>
<td>704.338.6825</td>
</tr>
<tr>
<td>Council of Chapters Delegate</td>
<td>Jeffery Brown</td>
<td>Cumberland County</td>
<td>910.678.7633</td>
</tr>
<tr>
<td>Council of Chapters Alternate</td>
<td>James Martin</td>
<td>NC LTAP Director</td>
<td>919.515.8620</td>
</tr>
<tr>
<td>Director (16-17)</td>
<td>Robby Stone</td>
<td>City of High Point</td>
<td>336.734.1550</td>
</tr>
<tr>
<td>Director (16-17)</td>
<td>Travis Crissman</td>
<td>Hazen</td>
<td>919.863.9262</td>
</tr>
<tr>
<td>Director (16-17)</td>
<td>Mae Bryant</td>
<td>City of Charlotte</td>
<td>704.622.9823</td>
</tr>
<tr>
<td>Director (16-17)</td>
<td>Rob Buff</td>
<td>Town of Lincolnton</td>
<td>704.736.8940 ext. 31</td>
</tr>
<tr>
<td>Director (16-17)</td>
<td>Christopher McGee</td>
<td>City of Raleigh</td>
<td>919.996.6446</td>
</tr>
</tbody>
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### APWA-NC 2017 Division Presidents

<table>
<thead>
<tr>
<th>Administrative Management</th>
<th>Ron Geiger, P.E.</th>
<th>HDR Engineering Inc.</th>
<th>704.338.6825</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equipment Services</td>
<td>Tyson Langdon</td>
<td>Town of Garner</td>
<td>919.661.6878</td>
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<tr>
<td>Facilities &amp; Grounds</td>
<td>Ryan Newcomb</td>
<td>City of Winston-Salem</td>
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<tr>
<td>Solid Waste</td>
<td>Bob Holden</td>
<td>Town of Cary</td>
<td>919.469.4388</td>
</tr>
<tr>
<td>Stormwater Management</td>
<td>Beth McLaughlin</td>
<td>Amec Foster Wheeler</td>
<td>919.628.8505</td>
</tr>
<tr>
<td>Streets</td>
<td>Jonathan Boone</td>
<td>City of Rocky Mount</td>
<td>252.972.1299</td>
</tr>
<tr>
<td>Technology</td>
<td>Allison Williamson</td>
<td>City of Winston-Salem</td>
<td>336.747.6851</td>
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The American Public Works Association is dedicated to education in the related areas of public works. We help our members, the public, and policy makers work together to provide the public works services needed to keep our communities operating smoothly and safely in concert with the latest environmental and public health standards. Through the national association and our 63 chapters in the US and Canada, we offer a comprehensive array of services to meet this educational mission.