INSIDE

• Utility Spotlight on Bear Creek
• Remembering ACE 16
• Member Update
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FEATURES:

69th Annual Conference Preview ........................................................................... 19
Utility Spotlight: Bear Creek Water Association ..................................................... 36
Remembering ACE 16 ......................................................................................... 40
Spotlight on our Supporters ............................................................................... 47

DEPARTMENTS:

Chairman’s Report ............................................................................................. 8
Director’s Report ............................................................................................... 11
Manager’s Report .............................................................................................. 12
Section Officers / Trustees and Committee Members ......................................... 14
The Marble Column .......................................................................................... 17
Member Update .................................................................................................. 42
Advertiser Information Center ............................................................................ 50
Conference Fast Approaching

By the time you are reading this, we will be just weeks away from the Section’s Annual Conference at the Renaissance Hotel on Montgomery’s Riverfront. Registration is open, so head on over to our online registration page to sign up, to get paper forms, or to register for the hotel. It’s hard to believe the year has gone by so quickly. Thanks to all the committees at the Section and Jim Miller, our Section Manager, who make everything run so well.

We have a great conference in store for you. Our planning committee has done a great job this year. We’re going to start off Sunday night at Montgomery’s Riverwalk Stadium with good comfort food and drinks and some laid back music to help us mingle and get to know each other again. On Monday, we’ll present some deserving people some great awards and scholarships, and George Hawkins, the General Manager of DC Water, will speak to us about improving our organizations inside and out to provide high quality service to our customers. From there, we’ll open up the exhibit hall and start our technical program.

The conference program is fantastic this year. It includes a first for our Section, an off-site technical track for operators at a local treatment plant. It will include a tour and hands-on learning. Many thanks to Buddy Morgan and Keith Yarbrough at Montgomery Water Works for helping us make that happen. Back at the conference center, there will be sessions on regulations, field operations technology, distribution systems, new treatment technologies for emerging threats, metering, and many other topics. Over 26 hours of technical sessions will be available so you’re bound to find something you’re interested in.

The exhibit hall will be full of people with innovative technologies and tools to help you back home at your utility or business. Be sure to check it out. Our competitions committee will continue last year’s Mini-Excavator competition, but this time we’ll be indoors, adjacent to the exhibitors and the Meter Madness and Pipe Tapping Competitions. Be sure to go by and try your hand operating an excavator or assembling a meter.

We’ll close up the week Tuesday night with our banquet, where AWWA National Vice-President Terry McGhee will present this year’s Fuller Award for distinguished service in the water supply field. Following this we’ll be entertained and educated by Meagan Johnson as she shares her humorous insights on generational changes and how we can leverage that to improve our workplaces.

In non-conference news, Mark Snow’s tenure on the Water Utility Council (WUC) ended this year, and we were fortunate that another AL-MS Section member was appointed to fill that important role. Buddy Morgan, General Manager of the Montgomery Water Works, will be serving on the WUC, ensuring that the Section’s voice will continue to be heard when AWWA is developing policy. I want to thank Mark for his service and unmatched passion for the water industry, and thank Buddy for his willingness to serve.

On a sad note, our Section lost two of its past leaders this year, Jimmy Nelson and Mike Vann. Both former Chairmen and Fuller Awardees, they served throughout the Section in many capacities, with Jimmy having been Director and Mike Secretary-Treasurer. Their presence will be sorely missed by the Section, and by those who knew them. We offer our sincere condolences to their family and friends.

As this is my final Chairman’s report, I want to again thank our committees and Jim Miller for all the great work done this year. We are a volunteer organization, and things get done, and they get done well. It always amazes me that the Section continues its high level of quality after year. But when I really stop to think, I understand it’s because of the high quality people who volunteer for our Section. This is an outstanding group of people dedicated to the water industry. I’m proud to say I’m part of it.

See you all in October.

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Perhaps you remember with some trepidation as a young student the first year you were required to change classrooms each day. And perhaps you remember the start of college, finding multiple classes and professors in numerous buildings on campus, and living away from home for the first time. And how about the first few months on your first full time job in a new location learning company policies, personnel, and work skills? Those were anxious, exciting times and opportunities to learn and grow in our individual lives. Deep down we all know that if we are to continue to learn and grow and contribute to a better society we must be willing to challenge ourselves with new opportunities, albeit with anxieties and excitement.

My new opportunity is to serve you and our AL-MS Section on the AWWA Board of Directors. While excited and somewhat anxious, I look forward to the opportunity to learn, grow and represent you in our association of over 50,000 AWWA water professionals. Those of you that have been involved in our Section know that we are fortunate to work alongside some of the finest, most dedicated people in the country, those that are involved in the design, manufacture and supply, production and delivery of safe, reliable drinking water to our families and businesses each and every day.

Our annual ACE conference in Chicago was a big success this past June, with over 13,000 attendees. It was great to see a good delegation from our Section there. Almost 1100 of those attendees were from outside North America, where currently over 73% of the world’s GNP is currently produced. AWWA is in the midst of establishing and growing a presence in and collaborative effort with India, where a tremendous need exists to provide millions of people with safe, reliable water. At ACE, our Board of Directors updated our Strategic Plan developed in 2013 (you can view it on our website: www.awwa.org). Several of our AWWA initiatives include (1) membership growth, engagement and development, (2) expansion of scholarship opportunities (such as the One AWWA Operator Scholarship – which is intended to ultimately help provide our utility members more potential professional, always engaged, always upbeat, concerned for others and willing to lend a hand. Perhaps his recognition and distinction as a Fuller Awardee reflects that best. We express our heartfelt sympathy and best wishes to Jimmy’s wife, Francis, and family.

It has been said many times before, but ‘the whole of us is only as good as the sum of us’. In our case, our Section is only as strong and effective as those that are involved. If you are involved today, thank you! Your presence and efforts are felt and appreciated. If you are not yet involved, what new opportunities lie ahead for you to learn and grow with us and collaborate with some of the finest professionals in our industry? What better way to start than by joining us and participating at our annual Section conference in Montgomery this October 9-11? Look forward to seeing you then!
Volunteerism and the Best Water Conference Going

October will soon be here. And so will be one of the premier water conferences in the region. The 2016 version of the Alabama-Mississippi Section Conference and Exposition promises to be one of the best yet. It will be held at the Montgomery Renaissance and Spa with its first class, luxury accommodations. It will be chock full of opportunities to learn and grow in the water professions with a great technical program including all the latest topics of interest. It will have headliner entertainment in abundance with some great speakers and musicians. There will be many opportunities to network with other professionals across the region in relaxed settings like Montgomery’s beautiful new ball park. Add to that Young Professional events, loads of first class exhibits with all the latest in water technology, exciting competitions including tapping, meter madness, and the new, popular, mini-excavator competitions (inside this year!) and you can see we will have a great time. And, don’t forget, a Spouse program that is always the envy of the other forty-five Sections of AWWA.

And none of it happened by accident! Many dedicated people have been working most of the past year behind the scenes to make it all happen. I hear folks from all kinds of professions and affiliations bemoan the loss of volunteer spirit. My experience with Alabama-Mississippi Section volunteers is just the opposite. We have a great mix of long term volunteers with years of experience and young, enthusiastic new-comers with creative out-of-the-box ideas. All contributing their considerable talent and hours of valuable time to handling every small detail in making this year’s conference a success.

Hats off to the Planning Committee and to the Board of Trustees for all the hard work and innovative thinking that promises a great conference; Fun and entertaining; informative and relaxing.

If you haven’t been to Montgomery lately you will find their downtown renovations on a par with all the great cities.

All we need now is you! So take a little quality time away from the day-to-day routine. Come visit with your peers in the industry. Learn some new techniques. Recharge your professional battery! The conference will give you lots of bang for your buck and you will go back to your job refreshed and energized!
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PAST-CHAIR – Sam Agnew
VICE-CHAIR – Amy McLeod
SECRETARY/TREASURER (2016-2018) – Harry Gong
TRUSTEE-AT-LARGE ALABAMA – Drusilla Hudson
TRUSTEE-AT-LARGE MISSISSIPPI – Phillip Gibson
SECTION MANAGER – Jim Miller

2016 COMMITTEE MEMBERS

Program Chair - Nick Freeman
Assistants to Chair - John Hall & Chris Bryson
Entertainment - John Hall
Exhibits Chair - Jeremy Gwin
Assistant to Chair - Doug Clark
MAC Chair - Chris Morrow
MAC Assistant to Chair - Ben Benvenutti
Registration Chair - Shannon Bailey-Partlow
Assistant to Chair - Carson Smith
Education - Co-Chair AL - Matt McDougald
Education - Co-Chair MS - Jason Barrett
Operators - Co-Chair AL - Eddie James
Operators - Co-Chair MS - Anna Yamat
Competitions Chair - Tina Webb
(Tapping, Top Ops, Meter Madness)
Competitions Committee - Jimmy Eckman
Competitions Committee - Jim Caudle
Competitions Committee - Trey Finch
Media, Communications & Pipeline - Hercy Golson
Assistant to Chair (Website/Social Media) - Harry Gong
Communications Committee - Miranda Duke
Governmental Affairs - Co-Chair AL - Ed Turner
Governmental Affairs - Co-Chair MS - Mark Snow
Audit Chair - Amy McLeod
Young Professionals - Co-Chair AL - Jaquice Boyd
Young Professionals - Co-Chair MS - Austin Moore
Awards Chair - La Quoyah McDaniel
Assistant to Chair - Maggie Wei
Awards Committee - Eddie James
Awards Committee - Lauren Behel
Awards Committee - Mauricka McKenzie
Golf Chair - Bob Coleman
Assistant Golf Chair - Eric Williams
Scholarship Chair - David Stejskal
Scholarship Committee - Eddie James
Scholarship Committee - Hugh Smith
Scholarship Committee - Dr. Mark Bennett
Scholarship Committee - Bryson Agnew
Nominations - Sam Agnew
Fuller Award - Tom Walters
Membership MS - Sam Agnew
Membership AL - David Stejskal
AWWA National Contact (Interim) - Nancy Sullivan

2016 Officers:
Top: Brian Shelton; Amy McLeod
Middle: Sam Agnew; Jim Watterson
Bottom: Drusilla Hudson; Harry Gong; Phillip Gibson

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MISSISSIPPI GOVERNMENTAL AFFAIRS CHAIR – MARK SNOW

As a result of my change in employment, the rules of the Water Utility Council (WUC) prevent me from serving further as I am no longer employed directly by a member utility. However, our section nominated Mr. Buddy Morgan, General Manager of Montgomery Water Works, to fill my uncompleted term. His nomination was accepted and he began serving at ACE16 in Chicago as I wrapped up my participation. Buddy has vast experience in the water business and will be an asset to AWWA and our section. Please offer your comments and support as he moves forward. Many issues come before this committee and your input is necessary to establish good positions by AWWA.

I will continue to serve as Governmental Affairs Chairman for Mississippi and will keep the section aware of any activity in Mississippi. If there are any questions or any way I may assist please feel free to contact me. Remember, election year is approaching and there are sure to be issues that affect our industry.

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## Preliminary Schedule for Technical Program

### MONDAY - OCTOBER 10, 2016

<table>
<thead>
<tr>
<th>TIME</th>
<th>GENERAL SESSION Alabama Ballroom A</th>
<th>Exhibitor Hall</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 am - 10:00 am</td>
<td>Welcoming Address (Brian Shelton/Buddy Morgan, MWSSB), AWWA National Official Remarks, State and Federal Governmental Affairs Updates (Clyde Chambliss, Alabama State Senator, District 30), and Awards Presentations (Scholarship, Operator, YP, Plant and Distribution System)</td>
<td>Exhibit Hall Setup</td>
</tr>
<tr>
<td>10:00 am - 10:15 am</td>
<td>BREAK</td>
<td></td>
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<tr>
<td>10:15 am - 11:15 am</td>
<td>Motivational Speaker - George Hawkins/ DC Water</td>
<td>Exhibit Hall Opens at 10:00 am</td>
</tr>
<tr>
<td>11:15 am - 12:00 pm</td>
<td>Annual Business Meeting</td>
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<tr>
<td>12:00 pm - 1:30 pm</td>
<td>STROLLING LUNCH IN EXHIBIT HALL and YP WATER TASTE TEST COMPETITION</td>
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</tbody>
</table>

### TIME

<table>
<thead>
<tr>
<th>TIME</th>
<th>Session A Alabama Ballroom C</th>
<th>Session B Alabama Ballroom D</th>
<th>Session C Alabama Ballroom E</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:30 pm - 2:00 pm</td>
<td>Pumping Systems Optimization Mark Sullivan, Hydraulic Institute</td>
<td>Water Supply and Distribution in Underserved Communities Mark Barnett, Auburn University</td>
<td>Vertical Turbine Pump Materials of Construction David Stover, Goulds Pumps</td>
</tr>
<tr>
<td>2:00 pm - 2:30 pm</td>
<td>Technology in the Use of Field Operations Will Moore, Montgomery Water Works and Sanitary Sewer Board</td>
<td>Jacksonville State Certified Water and Wastewater Operator Program Belinda Blackburn, Jacksonville State University</td>
<td>Peristaltic Pumps in the Water Industry Rick Balek, Watson Marlow</td>
</tr>
<tr>
<td>2:30 pm - 3:00 pm</td>
<td>Lessons Learned from the Drilling Rig Stan Graves, Graco Resources</td>
<td>Getting Out Front, Water Supply Planning and Water Loss, Where It’s Headed Nina Williams, Krebs Engineering, Inc.</td>
<td>Constructing a Maintenance Plan Based on Data Instead of Emotion Dave Cutnaw, SKF</td>
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<tr>
<td>3:00 pm - 3:30 pm</td>
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<tr>
<td>3:30 pm - 4:00 pm</td>
<td>Case Study: Bay County Alternate Water Supply Bill Perry, Mott MacDonald</td>
<td>The Perfect Defense for Water Distribution System Decisions Matthew Grewe, Tetra Tech</td>
<td>Hybrid Multispectral Analysis for Water Quality Monitoring Harvey Klaer, Zapa Technologies</td>
</tr>
<tr>
<td>4:00 pm - 4:30 pm</td>
<td>A State Perspective on Water Use by Public Water Systems and Drought Planning in Alabama Tom Litlepage, Alabama Office of Water Resources</td>
<td>Do Algae Blooms Threaten Freshwater Sources in Alabama? Alan Wilson, Auburn University</td>
<td>Sodium Hypochlorite Safety Considerations Phil Burmeister, Olin Chemical</td>
</tr>
<tr>
<td>4:30 pm - 5:00 pm</td>
<td>Case Study: Madison County Distribution System Water Modeling Brian Shannon, Garver</td>
<td>Leveraging Cloud Based Technology to Manage Water Quality Sampling &amp; Operations Ricky Langley, Utility Cloud</td>
<td>Case Study: Granular Activated Carbon for PFC Treatment Amber Simonic, Calgon Carbon and Joey Downey, Constantine Engineers</td>
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<td>5:00 pm - 6:00 pm</td>
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<tr>
<td>TIME</td>
<td>Session A Alabama Ballroom C</td>
<td>Session B Alabama Ballroom D</td>
<td>Session C Alabama Ballroom E</td>
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<tr>
<td>8:00 am - 8:30 am</td>
<td>Alabama Regulatory Update Dennis Harrison, Alabama Department of Environmental Management</td>
<td>Pipe Bursting Using Fusible C900 Chad Andrews, Underground Solutions</td>
<td>Mississippi Regulatory Update Amy McLeod, MSDH</td>
</tr>
<tr>
<td>8:30 am - 9:00 am</td>
<td>TPCs in Alabama Dennis Harrison, Alabama Department of Environmental Management</td>
<td>Lime Preparation and Feed Techniques Ron Plank, Merrick Industries</td>
<td>Mississippi’s Corrosion Control Law and Corrosion Control Techniques Harry Gong, MSDH</td>
</tr>
<tr>
<td>9:00 am - 9:30 am</td>
<td>Alabama Ballroom C</td>
<td>Session B Alabama Ballroom D</td>
<td>Session C Alabama Ballroom E</td>
</tr>
<tr>
<td>9:30 am - 10:00 am</td>
<td>Puerto Rico’s Debt Crisis and Puerto Rico’s Water Authority; What it Means for You Blake Jeffcoat, CH2M</td>
<td>The Role of Carbon Dioxide in Corrosion Control Mike Dirth, TOMCO2 Systems</td>
<td>Changes in Leadership and Their Effect on Small Public Water System’s Management and Sustainability Lauren Behel and Alan Barfield, Mississippi State Extension Service</td>
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<tr>
<td>10:00 am - 10:30 am</td>
<td>BREAK</td>
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<tr>
<td>10:30 am - 11:00 am</td>
<td>The How’s and Why’s of Rehabilitating Aging Concrete Facilities Steve Mason, Tendon Systems</td>
<td>Emerging Trends in AMI and AMR Technology Rob McClendon, Sensus</td>
<td>Stage 3 Disinfection Byproduct Rule, What Could it Mean for GAS and Disinfection Ben Stanford, Hazen and Sawyer</td>
</tr>
<tr>
<td>11:00 am - 11:30 pm</td>
<td>Case Study: Design-Build in the Nuclear World, Analyzing the Benefits and Challenges of Design-Build Dave Hall, Garney Construction</td>
<td>Case Study: Financial Rate Planning for the Alabaster Water Board Tony Hairston, Raffelis</td>
<td>Case Study: Sequesterant Dosing Control with Online Analyzers Bruce Stevens, ChemScan</td>
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<tr>
<td>12:00 pm - 1:30 pm</td>
<td>JOINT LUNCHEON: SPONSOR RECOGNITION</td>
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<tr>
<td>1:30 pm - 2:00 pm</td>
<td>Back to the Basics; Sampling and Monitoring Mike Shaw, TTL</td>
<td>SCADA System Retrofits and Upgrades Nan Johnson, Revere Controls</td>
<td>Design and Construction of the Auburn ASCE OutCELL Outdoor Civil Engineering Learning Lab Auburn ASCE</td>
</tr>
<tr>
<td>2:00 pm - 2:30 pm</td>
<td>Mythbusting Filters with Turbimeters and Particle Counters Mark Vandiver, ChemTrac</td>
<td>Aging Infrastructure - SCADA Communication Replacement Tom Koporetz, City of Kalamazoo and Gene Jones, Tetra Tech, Inc</td>
<td>Case Study: A Protocol for Identifying Deepwater Horizon Oil Spill Residues Using Combined Chemical and Physical Characteristics Yuling Han, Auburn University</td>
</tr>
<tr>
<td>2:30 pm - 3:00 pm</td>
<td>BREAK</td>
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<tr>
<td>3:00 pm - 3:30 pm</td>
<td>Online Methodology for Determining THM Formation Potential &amp; Predicted Network THM Levels Tom Williams, Aqua Metrology</td>
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<td>Pipe Tapping Exhibition Ice Cream Social - 2:30 - 3:45</td>
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<tr>
<td>3:30 pm - 4:00 pm</td>
<td>Rapid Return to Service Coating Technology Jeremy Sukola and Eric Zimmerman, Sherwin Williams</td>
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<tr>
<td>6:00 pm - 7:00 pm</td>
<td>Reception</td>
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<tr>
<td>7:00 pm - 9:00 pm</td>
<td>Awards Banquet and Entertainment</td>
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</tbody>
</table>
Terry McGhee has been with the DuPage Water Commission since 1991. Currently he is the Manager of Operations. He has been an active member of AWWA and the local Section since he joined in 1991.

Involved in many of the Section’s committees, Terry has served as secretary, treasurer, vice-chair, and chair of the nominating and awards committee. He was also the founding member of the Water Efficiency Committee, as well as the co-chair of the ACE16 Local Host Committee.

Terry received the 2014 Operator of the Year Award from the Illinois Potable Water Supply Operations Association. In 2012 he was honored by the Illinois Section with the 2012 Clifford H. Fore award which recognizes waterworks personnel who maintain ongoing devotion to the industry.

Terry received his Bachelor of Science degree from Trinity Christian College and is currently enrolled in the Keller Graduate School of Management MBA program. He lives in Elmhurst, Illinois with his wife Lori.

Spouses' Program

Dear AWWA spouses,

We have a great program lined up for this year’s conference, so I’m inviting all you spouses (guys too!) to join us at the Renaissance Montgomery Hotel and Spa along the Riverfront starting Sunday October 9th through Tuesday October 11th.

We’ll be starting off on Sunday with everyone else at Montgomery’s Riverwalk Stadium with comfort food and music from Chase White. Chase is a regular on the River Region music scene with his unplugged acoustic guitar style. We can mingle and catch up with each other again.

On Monday morning, we’ll split off for our traditional Bingo game, with a non-traditional switch with it being on Monday. No worries, the fun and prizes will still be there. Afterwards, enjoy lunch on your own, and celebrate your big Bingo win with a trip to the Spa, the pool, or a shopping trip.

Tuesday morning we’ll catch a bus to the Montgomery Museum of Fine Arts at the Shakespeare Festival Park for a guided tour before returning to the hotel for the Joint Luncheon with everyone else. We’ll wrap up the conference with Tuesday night’s Reception and Banquet.

Come on and let’s renew those AWWA friendships and start some new ones. I’m looking forward to seeing you all in October. A special prize will be awarded for the first 5 guy spouses to register!

Carolyn Shelton
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For more information, contact Brian Shannon, PE
BSShannon@GarverUSA.com | 205.443.3080 | GarverUSA.com
Keynote Speakers

Meagan Johnson, born 1970, Gen X’er

A Generational Expert, Speaker and Author. She’s a bright, funny delightfully obnoxious Generational Humorist!

What exactly is a Generational Expert?
It’s somebody who understands the differences between Baby Boomers (born 1945-1964), Generation Xers (born 1965-1980) and Gen Yers also called Millennials (born 1981-2000) and how they can live, and most importantly, work together successfully without name-calling or bloodshed.

"She is the de-facto expert when it comes to navigating the maze of generational quandaries’ every organization faces."

Think you’ve already heard everything about the multiple generations? Think again!
Our generations and the gaps that separate them are in constant flux, what worked last year probably won’t work today. Anybody still using their VCR? What seemed like a perfect solution yesterday is the source of tomorrow’s problem. You really need to get all those home movies put on disc! … Wait! I mean Digital Storage. Oh No! I mean The Cloud!

The potential for collision, conflict and confusion between the generations has never been greater and the chasm is growing wider every day we ignore the problem.

Unwilling to accept standard, by-the-book generalizations, Meagan tackles the generational challenges, myths and misunderstandings head on. Meagan demonstrates to audiences, through her own experience, in depth research and program customization, that all generations have differences and strengths that go beyond mere age and appearance.

Stop complaining about the generational differences and learn from Meagan Johnson what you can do right now to make the most of all the generations.

The workplace is NOT what it used to be.
What happened to company loyalty, work ethic, manners and attitudes? People are staying past their prime; the corporate ladder has crumbled; college grads have job titles that sound like something out of a science fiction movie and have nothing to do with their actual job and nobody talks on the phone anymore.

The global marketplace has become a myriad of different generations. What people want from an employer; their expectations of corporate benefits, organizational culture and motivation to do what’s best for business differs from generation to generation. Your challenge is to figure out how to communicate successfully with the individual generations to achieve financial success, personal growth and enriched company morale.

What Makes Meagan a Generational Expert?
During the 1990s, while working for companies like Quaker Oats, Kraft Foods and Xerox, Meagan often heard negative comments about Gen Xers. Things like “they’re all slackers,” “gold collar workers,” and “it’s the Beavis and Butthead generation” were not uncommon.

Being a Gen Xer herself, Meagan knew those terms were unfair, untrue and hurtful so she began researching small and large businesses to debunk generational myths and discover the most effective ways to solve multi-generational clashes. That research gave birth to thousands of generational presentations and to her best selling book “Generations Inc., From Boomers To Linksters Managing the Friction Between Generations at Work”.

“She is the de-facto expert when it comes to navigating the maze of generational quandaries’ every organization faces.”

**Quoted by the Chicago Tribune, CNNMoney.com and US News & World Report, she has been heard on ABC Talk Live, NPR and profiled on Conde’ Nast’s Portfolio.com. Meagan has become the ‘Go To’ expert for all things generational.

Meagan gives audiences a chance to not only laugh at their own generation (and the other ones) but flourish in the presence of others.
George S. Hawkins, Esq, CEO and GM

George Hawkins serves as the Chief Executive Officer (CEO) and General Manager of the District of Columbia Water and Sewer Authority (DC Water), was named to the post in a unanimous vote September 3, 2009 by the board of directors. With an operating and capital budget of nearly $1 billion, DC Water provides drinking water delivery and wastewater collection and treatment for a population of more than 600,000 in the District of Columbia, as well as to the millions of people who work in or visit the District. DC Water also treats wastewater for a population of 1.6 million in Montgomery and Prince George’s counties in Maryland, and Fairfax and Loudoun counties in Virginia. The Authority operates the world’s largest advanced wastewater treatment plant at Blue Plains, with a capacity of 370 million gallons per day and a peak daily capacity of more than a billion gallons. DC Water’s service area covers 725 square miles.

Hawkins has launched an ambitious agenda at DC Water that complements a vast 10-year program to improve aging infrastructure and comply with ever more stringent regulatory requirements. DC Water is designing and implementing a $2.6 billion program, the Clean Rivers Project, to nearly eliminate overflows of sewage and stormwater to the Anacostia, Potomac and Rock Creek. DC Water is also investing $950 million to achieve the next level of nutrient reductions and help restore the Chesapeake Bay. In addition, DC Water is implementing a $400 million digester program to help manage solids being removed from reclaimed water that will become the region’s biggest source of renewable energy, reduce the volume of biosolids by almost half, and disinfect the biosolids to be clean enough to sell as fertilizer at retail stores. The digester project will be the first in North America to use the CAMBI treatment process, and the largest installation of CAMBI in the world. Finally, Hawkins has gained approval from the board of directors to triple the rate of DC Water’s program to replace water and sewer infrastructure frequently installed generations ago.

In parallel to these capital expenditures, Hawkins is leading a cultural change within DC Water. He has launched the Team Blue program to engage front line staff in improving the enterprise, connected to the BlueStat process to evaluate business processes with benchmarks and performance statistics. DC Water recently rebranded the enterprise to strengthen connections to the public, and has launched a Facebook page, Flickr and YouTube pictures and videos, and a customer-oriented Twitter account. Hawkins is also building a new and strong relationship with local and national environmental advocates to work in tandem to achieve the next generation of water quality improvements.

Prior to joining DC Water, Hawkins served as director of the District Department of the Environment (DDOE), a $110 million dollar agency with 300 employees. DDOE performs city, county and state environmental functions for the nation’s capital. The agency is responsible for providing energy assistance to District residents; reviewing development applications for compliance with environmental requirements; monitoring and enforcing air and water quality standards; regulating the use and disposal of toxic substances; preserving the District’s natural habitat for fish and wildlife; and developing and implementing stormwater management regulations to minimize runoff pollution into District waterways.

Hawkins implemented the Anacostia 2032 Plan to transform one of the most polluted rivers in the country into an environmental gem that will drive economic revitalization. Hawkins also led the District’s efforts in reducing childhood exposure to lead hazards, negotiated the nation’s most stringent federal permit to reduce pollutants from stormwater runoff and managed the nation’s most successful low-income energy assistance program, including conservation and weatherization. He launched and chaired the Mayor’s Green Team, which coordinated the District Government’s sustainability program across more than 40 agencies. In 2008, Hawkins launched the Mayor’s Green Summer Job Corps, a group of several hundred District youth engaged in environmental cleanups and public education. In 2009, the program grew into the largest green jobs program for youth in the country, serving more than 5,000 young people with a focus on energy and stream ecology and in neighborhood based clean-up programs.

Prior to coming to the District, Hawkins was executive director of New Jersey Future, a non-profit organization which, under his leadership, came to be recognized as the state’s foremost advocacy group promoting smart growth. While there, he worked with the governor’s office to focus development on transit stations and urban areas. Hawkins also served as executive director of the Stony Brook-Millstone Watershed Association, where he built an award-winning program to improve local zoning and master plans to both target growth and protect critical ecosystems. Mr. Hawkins held senior positions with the United States Environmental Protection Agency (EPA), including Senior Assistant Regional Counsel and Special Assistant to the Regional Administrator. He served Vice President Gore on the National Performance Review, playing an integral role in streamlining and strengthening environmental protection programs at EPA and the Occupational Safety and Health Administration.

Chase White brings us modern ballads, rock, and easy listening acoustic guitar and vocals in the Unplugged tradition. Chase is a regular on the local River Region music scene and plays for crowds young and old. During the day, you can find him keeping the Montgomery Water Works’ distribution and collection systems in top notch shape as a Grade I Operator.

Young Professionals Conference Events

Sunday, October 9th
- Sporting Clay Shooting Competition
- Lower Wetumpka Shotgun Sports Club (Don’t forget to register)
- Sponsored by AWWA YPs and ETEC

Monday, October 10th
- YP Scavenger Hunt (Lots of PRIZES)
- YP Lounge (Stop by throughout the conference for a coffee break, charge your phone, a massage & corn-hole competition)
- YP Social starts at 4:30 (Drinks, appetizers & corn-hole finals)

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2016 Scholarship Golf Tournament
The Judge | The RTJ Trail at Capitol Hill | Prattville, Alabama

REGISTRATION for SCHOLARSHIP TOURNAMENT ONLY

Where: The RTJ Trail at Capitol Hill - The Judge - Prattville, Alabama
When: Sunday, October 9, 2016
SHOTGUN START at 12:00 P.M.
Registration begins at 9:00 A.M.
Format: 4-Man Scramble
Entry Fee: $100 per person
Prizes:
• Team Competition - 1st, 2nd & 3rd Place Gross & Net
• Closest to the Pin - Holes #4, #6, #12 & #16
• Closest to the Pin - Approach Shot to Signature Hole #1
• Hole-In-One Contest - Holes #4, #6, #12 & #16
• Longest Putt Made Contest
• Longest Drive In Fairway
• Straightest Drive Used By Team
• Putting Contest - Practice Green

CONTACT INFORMATION FOR INDIVIDUAL & TEAM PLAYERS, AND/OR SPONSORS

Name / Company: ________________________________________________________________
Address: _______________________________________________________________________
City: ___________________________ State: _________ Zip: ____________________________
Phone: ___________________________ Email: _______________________________________

TEAM

Player 1 Name: _____________________________ Email: _______________________________________
Player 2 Name: _____________________________ Email: _______________________________________
Player 3 Name: _____________________________ Email: _______________________________________
Player 4 Name: _____________________________ Email: _______________________________________ 

*** Please provide your handicap next to the individuals name & cell # next to email address ***

SPONSORSHIP OPPORTUNITIES

Please indicate if you would like to sponsor the scholarship golf tournament through one (or more) of the options listed. In addition to the Course Signage, your company will be recognized on the AL/MS Website (www.almsawwa.org), the quarterly newsletter (Pipeline) and at the Sponsorship Luncheon. Please contact Rob Coleman at (205) 821-2511 or rcoleman@morrowwater.com.

• Tournament Diamond Sponsor ($1,500) - 1 Team, Flag/Tee Signs (9 Holes), Lunch Sponsor, Logo on Banner
• Tournament Team Sponsor ($800) - Includes 1 Team, Single Hole Signage, Logo on Banner
• Tournament Lunch Sponsor ($400) - Includes Sign at Lunch, Single Hole Signage, Logo on Banner
• Hole Sponsor ($200) - Includes Recognition Hole Signage, Name/Logo on Banner
• Putt Off Sponsor ($500) - Includes Recognition Hole Signage on Course & Putting Green, Logo on Banner
• Snack & Beverage Cart Sponsor ($500) - Includes Sign on Beverage Cart, Name/Logo on Banner
• Driving Range Sponsor ($500) - Signage on Driving Range (each tee slot), Logo on Banner
• Individual Entry Fee ($100) - 18 holes, practice & lunch; please indicate quantity

PAYMENT INFORMATION

You can Register online for the Golf Tournament using a credit card, www.almsawwa.org.
If Registering by Mail, complete & return this form to: AL/MS AWWA Golf Tournament, Attention: Rob Coleman, Morrow Water Technologies, 7440 Cahaba Valley Road, Birmingham, AL 35242 – Checks made out to AL-MS AWWA.
If you would like to be invoiced, complete this form and send to Rob Coleman at address above.
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$ Develop defendable, fair, equitable, and objective policies
$ Recover the full cost of service by obtaining the rate your utility needs
$ Avoid rate shock by using proven techniques of capital budgeting and analysis

September 19–21, 2016 | Louisville, Kentucky
www.awwa.org/finmgmt
Operator Day
Renaissance Hotel in Montgomery, AL | Tuesday October 11, 2016 | 8 am - 4 pm

If interested go to www.almsawwa.org and click the conference registration link to signup. Only 60 dollars to attend. Pre-registration begins at 7:30 on the day of the event.
Sporting Clay Competition
Sponsored by: the Young Professionals and ETEC

Sunday, October 9, 2016 at 1:00 pm
Lower Wetumpka Shotgun Sports Club
4758 Lower Wetumpka Road
Montgomery, AL

Details:
• 14 stations/50 targets each team member
• 4 person teams (individuals will be assigned to a team)
• Shotgun and shells will be provided
• Awards and raffle drawing

Entry Fee:
$260 per 4-person team or $65 per individual
Price includes shotgun, shells, ear plugs, eyewear and 1 raffle ticket per person

Team Name:
________________________________________________________________________________________________________

Team Members: (Name & Email)

1. ______________________________________________________________________________________________________

2. ______________________________________________________________________________________________________

3. ______________________________________________________________________________________________________

4. ______________________________________________________________________________________________________

Contacts:
jaquice.boyd@bwwb.org or austin.moore@waggonereng.com
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Click here to return to Table of Contents
2016 Best Tasting Drinking Water Contest

“Do you have the best tasting water?”

If interested in participating, please send your mailing information to receive a bottle for sample collection.

Deadline
September 9th

Alabama Contact
jaquice.boyd@bwwb.org

Mississippi Contact
austin.moore@waggonereng.com

Rules and Regulations

1. Eligible Participants
   • Water sample entries must be submitted by an Alabama or Mississippi Public Water Supply System.
   • There should be no state or federal drinking water violations (MCL, monitoring, recordkeeping, etc.) for the previous calendar year.

2. Submission of Water Samples
   • One entry per Public Water Supply.
   • Samples must be submitted in containers supplied by Jaquice or Austin. Each sample should be clearly identified with the name of the water system and contact person.
   • Samples should be collected no more than 48 hours prior to the contest and continuously stored at a temperature between 40° F and 70° F. Samples will be served at room temperature and should be submitted at room temperature.
   • Operators shall collect the sample in a properly cleaned container; from a customer’s tap that is free from any point of use devices such as filters or water softeners, etc.
   • When sampling from the tap, remove any screens, aerators, or treatment devices and minimize turbulence. Flush tap for at least 5 minutes. Reduce the flow rate during sampling. Rinse the bottle with the sample, and then fill it to the top, with no headspace.
   • Water samples shall be submitted in person at the AWWA registration booth by 9:00 a.m. local time, the day of the contest (Monday, October 10, 2016).

3. Judges
   The water tasting contest will be judged by a panel of water industry representatives and general public. They are as follows:
   • Past AL/MS Section AWWA President
   • National AWWA Representative
   • Representative from a Alabama or Mississippi regulatory agency
   • Representative from the Local Media
   • Other
   Depending on availability, judges may be altered the day of the competition.

4. Contest Categories
   All water samples will be judged in a single category.

5. Contest Judging
   Samples will be presented to the judges anonymously and in random order.
   • Each judge will be given one 8 oz. water sample. Water samples will be judged by taste on a 10-point scale from Good (1) to Best (10).
   • In case of a tie, additional water samples will be presented to the judges for final selection.
   • The water sample with the highest cumulative score will be the winner and shall be declared the “Best Drinking Water in Alabama/Mississippi 2016”.
   • Only the winning sample will be announced. Samples will not be ranked, nor will scores be released. The AL/MS Section winner will be nominated to compete in the National AWWA Water Taste Test at the next AWWA Annual Conference, if the winner meets the National AWWA eligibility requirements.

Jaquice Boyd: Jaquice.Boyd@bwwb.org
Austin Moore: Austin.Moore@Waggonereng.com
ALABAMA/MISSISSIPPI SECTION
AMERICAN WATER WORKS ASSOCIATION
69th ANNUAL CONFERENCE
OCTOBER 9-11, 2016
Renaissance Montgomery Hotel & Spa at the Convention Center
Montgomery, AL 36104

REGISTRATION FORM

Please complete and return to AL/MS AWWA, c/o Harry Gong, P.O. Box 4651, Jackson, MS 39296-4651
Make Check Payable To: “AL/MS Section AWWA”

Name: ____________________________ Name/Nickname for Badge: ____________________________
Spouse’s Name: _______________________ Name/Nickname for Badge: _______________________
Firm/Municipality/Organization: ____________________________ Title: ____________________________
Address: ____________________________________________________________________________

City: ____________________________ State: __________ Zip: __________ Phone: ________________

Date: ____________________________ AWWA Membership Number: __________ E-mail Address: __________

Is this your first time attending the Alabama–Mississippi Section AWWA conference? _________
Spouse’s? __________

Are you a Young Professional (age 35 or younger)? _______ Spouse’s E-mail Address (If registered): __________

Are You/Spouse planning to attend Sunday’s dinner? ______ Are You/Spouse planning to attend Tuesday’s dinner? ______

Will Spouse utilize transportation provided by AWWA for Spouse Activities? __________

<table>
<thead>
<tr>
<th>Membership Category</th>
<th>Quantity</th>
<th>Before Sept. 5, 2016</th>
<th>After Sept. 5, 2016</th>
<th>Total Amount</th>
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<tr>
<td>Lifetime Member</td>
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<td>$ 175.00</td>
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<tr>
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<td>$ 275.00</td>
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<tr>
<td>AWWA Member (Manufacturer, Consultant, Contractor, Additional Exhibitor)</td>
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<tr>
<td>First Time Operator (Includes technical sessions and day pass for Tuesday only)</td>
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<td>$ 60.00</td>
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<tr>
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<tr>
<td>Exhibitors Registration (Includes exhibit booth and one exhibitor only. Additional exhibitor must register separately.)</td>
<td></td>
<td>$ 750.00</td>
<td>$ 800.00</td>
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<tr>
<td>Conference Sponsorship Donation (Platinum $2,500, Gold $1,500, Silver $750, Bronze $250)</td>
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<tr>
<td>Golf Tournament Registration (1 player -Complete Golf registration form)</td>
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<tr>
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<td>$ 200.00</td>
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<tr>
<td>Golf Tournament Sponsor (includes 1 Team of 4, 4 Mulligan’s, 1 Hole Sign, Plaque, Sponsor Name/Logo on board - Complete Golf registration form)</td>
<td></td>
<td>$ 800.00</td>
<td>$ 800.00</td>
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<tr>
<td>Golf Tournament Lunch Sponsor (includes 1 Hole Sign, Plaque, Sponsor Name/Logo on sponsorship board- Complete Golf registration form)</td>
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<td>$ 400.00</td>
<td>$ 400.00</td>
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<tr>
<td>YP Sporting Clay Competition – Team of 4</td>
<td></td>
<td>$ 260.00</td>
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<tr>
<td>YP Sporting Clay Competition – Individual</td>
<td></td>
<td>$ 65.00</td>
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</tbody>
</table>

Total Amount Enclosed __________________________________________

Conference registration cancellations after September 5, 2016 are not refundable, but substitutions are accepted.

If paying by credit card, please fill out the following Information: Master Card [ ] Visa [ ] American Express [ ]
Credit Card Number: ____________________________ CVV# ___ Expiration Date: __________
Signature: ____________________________ Billing Address: ____________________________

If you have any questions, please contact Shannon Bailey, 256-424-4059 or shannon.bailey@tetratech.com. To register online, go to http://www.almssawa.org and click on 2016 Conference for links for online registration and online hotel reservation. Hotel reservation can be made directly with Renaissance Montgomery at 1-888-236-2427. To receive the group rate, tell the reservation desk you are attending the American Water Works Association Conference. Visit the website for booking information and details.
At Bear Creek Water Association, “Growth” is the word of the day. Not just today, but every day. Located in the thriving south Madison County area of Mississippi with a good school system and a low crime rate, population in Bear Creek’s certificated area has continued to increase yearly.

Bear Creek Water Association is a rural water association that started in the early 1970’s with around 400 customers. That number slowly increased over a 25-year period to just over 4,000 customers in the mid 1990’s. Around that time, Bear Creek Water Association acquired the privately owned wastewater system in the Deerfield Subdivision and started offering public sewer service to other parts of its service area. The availability of public sewer helped spur massive growth that has yet to slow. By 2006, Bear Creek Water Association had just under 10,000 water customers. By 2016 that number had grown to around 16,000 water customers representing a population of approximately 45,000 people.

Keeping pace with the growth has been a significant challenge. New wells and tanks have been constructed, and miles of water and sewer mains have been installed to serve the new customer base. The demands on the water system have been intense and have required careful planning and vision.

“Our Board of Directors is very knowledgeable and astute, and they strive to stay ahead of the growth,” says General Manager Nolan Williamson, “and our employees are second to none. The collective knowledge and skill among our employees makes conquering any challenge possible.”

As the growth continues, Bear Creek is in the first phase of a five-year improvement plan using Mississippi State Revolving Funds. The first year
will involve two large water mains which will improve water pressure to certain areas, and transport water more easily to an existing elevated tank. The second year will involve more water transmission lines to improve a service area along the eastern side of the system. The third, fourth, and fifth years will involve construction of three new wells and a new elevated tank. Projected costs will be over 10 million dollars.

While the growth thus far has been primarily residential, now Bear Creek is starting to see an increase in commercial growth. Home Depot, a few hotels, and many restaurants and schools are currently served. Several car dealerships are on the way, and more commercial growth is on the drawing board.

The water demands must be carefully planned for, not only for domestic purposes, but for fire protection also. The large majority of Bear Creek’s system has line sizes large enough to support fire protection, and hydrants are in place for that very purpose.

The transition of the area from a rural undeveloped area, to a more dense urban type area didn’t just

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mean that the customer base grew substantially. The company staff has grown as well. System maintenance had routinely been performed by an outside contractor. Bear Creek brought maintenance in-house several years ago. That meant the addition of employees, vehicles, and equipment. An engineering and mapping division was also added. This has caused the number of employees to rise from less than 10 to almost 30 within the last 10 years.

“We are in a thriving area, with a membership of great people. We are excited to see what the future holds for us. We added about 700 new meters in 2015, and it appears 2016 will match that number,” says Williamson.

Bear Creek currently serves approximately 16,000 water customers and over 5,000 sewer customers within the City of Madison, City of Ridgeland, City of Canton, and unincorporated areas of Madison County. Bear Creek was named the Mississippi Water Distribution System of the Year for 2015 by the American Water Works Association.
Hunter Arnold is presented his Fuller Award plaque along with AWWA CEO David LaFrance and President Gene Koontz.

A great group of members representing the Section at ACE16

AWWA President Gene Koontz addresses the attendees.

Meteorologist Jim Cantore of the Weather Channel addresses the crowd during the Opening Session.

Hunter Arnold is presented his Fuller Award plaque along with AWWA CEO David LaFrance and President Gene Koontz.
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IN MEMORIAM: JAMES NELSON

James Cleveland Nelson (February 14, 1956 – June 14, 2016) of Madison, MS, passed away Tuesday, June 14, 2016, at St. Dominic Hospital in Jackson, MS.

A native of Jackson, “Jimmy” was born on February 14, 1956 to the late Arthur Leander and Nola Kate Ball Nelson.

He attended Murrah High School and graduated with a degree in Civil Engineering from Mississippi State University. He worked for Allen & Hoshall for 32 years, serving as Senior Vice President, Company Secretary, and on the Board of Directors. He was serving as the Outgoing Director of the AL-MS Section of the American Water Works Association, a Past Chair, and a Fuller Award Recipient. He also was a Past President of the American Council of Engineering Companies/Mississippi (ACEC/MS). He was a charter member of the Madison-Ridgeland Rotary Club, and a member of the Bulldog Club. He was a parishioner of the Cathedral of St. Peter the Apostle in Jackson.

Jimmy was preceded in death by his parents and one brother, Thomas Raymond Nelson.

He leaves behind his wife, Frances Jones Nelson; and a son and daughter-in-law, Harry and Barrie Nelson, also of Madison. Other survivors are his siblings, Robert Nelson of Las Vegas, Nevada; Donald Nelson of Murfreesboro, Tennessee; William Nelson of Jackson; and Ruth Nelson Keyes of Ridgeland; along with a host of nieces and nephews. He will be missed by the family cat, Omar.

The family thanks Dr. Manu Patel and the staff of Jackson Oncology Associates for their loving care and attention during Jimmy’s illness. Further thanks also go out to the Forth Floor South of St. Dominic Hospital for their kindness and care.

Visitation was held on, June 16th at the Cathedral of St. Peter the Apostle in Jackson immediately followed by the Mass of Christian Burial with Father Anthony Quyet officiating. Burial was at Parkway Cemetery in Ridgeland.

Contributions may be sent to the ACEC/MS Engineering Scholarship Fund or to the Cathedral of St. Peter the Apostle in Jackson.

IN MEMORIAM: MICHAEL VANN

Michael Owen Vann (December 24, 1951 – July 13, 2016), age 64, of Hoover, AL, passed away on Wednesday, July 13, 2016 to be with his Heavenly Father. He had battled cancer since 2014. “Mike” was predeceased by his parents, Mason Owen and Louise Vann; his sister, Patricia McCarley; brother, Kenneth Vann; and special brother-in-law, Charles McCarley.

Survivors include Mike’s loving wife, Susan Vann; daughter, Michelle Cintron (Dario) of Tampa, FL; sons, Stewart Vann (Kerin) of Brooklyn, NY, Robert Vann (Carter) of Greenwich, CT, and Bill Murphree (Brooke) of Hoover; brother, Steven Vann (Pat) of Alabaster, AL; grandchildren, Robin and Jody Vann of Brooklyn, and Mason Vann of Greenwich; step-granddaughter, Olivia Fagan; and special niece, Lesleigh Vann.

Mike graduated from Hueytown High School (1971), the University of Montevallo (1975), and from Birmingham School of Law (1981), and was licensed to practice law in Alabama. He had a 31-year career at Birmingham Water Works, where he served as both CFO and CEO, retiring in 2006. After retirement, Mike went on to consult with utilities throughout the country.

He served on many boards and associations, including the Alabama-Mississippi Section of the American Water Works Association where he served as Chairman, Association of Metropolitan Water Agencies, Greater Birmingham Chamber of Commerce, and the Better Business Bureau of Central Alabama. Mike graduated from the Leadership Birmingham Program in 2001.

He was a member of the Alabama and American Bar associations, and received the prestigious Fuller Award from the American Water Works Association in 2001. He and Susan are members of the Riverchase United Methodist Church, Hoover.

Visitation was held on Saturday, July 16, 2016 at Riverchase United Methodist Church, Hoover, and was followed by the funeral service at the church. Burial was at Southern Heritage Cemetery in Pelham, AL.

The family asks that memorial gifts be made to Riverchase United Methodist Church, Hoover, AL in his honor.
David Bass of Corinth was honored by the Mississippi Water and Pollution Control Operator’s (MWPCOA) Association on July 15 with the Howard K. Williford Special Service Award. The Howard K. Williford Award is the Association’s most prestigious honor and is given each year to a member who displays “outstanding dedication to the Association.” Tim Rogers presented the award to David Bass at the Association’s 46th Annual Conference in Vicksburg, MS. The award is in honor of Professor Howard K. Williford who was instrumental in professionalizing the water and wastewater industry.

Upon receiving this award, Bass said, “Thank you to all my peers that selected me for this award. It’s really special to me that they would even consider me for this award. I have seen the award be given many times and remember thinking “He/She deserves this” because of all they had done for the Association. I never thought I would be considered. It is a true honor to receive the Howard K. Williford award. Thank you to all the MWPCOA members.”

Mr. Bass has been employed with Corinth Gas and Water for 28 years, where he is the Surface Water Treatment Plant Manager. Other honors Bass has received include the 1998 Jim McDonald Award for Outstanding Waterworks of the Year, and the 2014 Water Plant of the Year Award from AL/MS American Water Works Association.

He has been involved with the MS Water and Pollution Control Operators’ Association for more than 25 years. He served as President of his district and was elected to serve on the Board of Governors in 2006. In 2010, he was elected to serve as President-elect, and served as President of the Association in 2011.

For more information about MWPCOA, contact Administrator Linda Golladay at 601-857-0512.

NEW MEMBERS

Carl Hanke – Mobile Area Water & Sewer System
Steven Williams – Satsuma Water Works
Caleb Jones – Neptune Technology Group Inc.
Benny Buchanan – Huntsville, AL
Richard Grace – Madison County Public Works

Denise King – Goodwyn Mills and Cawood, Inc.
Steve Holcomb – Veolia Water
Claudie Steen – Canton Municipal Utility
Alison Wackie Dilmore –
COMMUNICATIONS COMMITTEE NOTICE

Volunteers are needed to serve on the Communications Committee for the Alabama/Mississippi Section of AWWA. If you are interested in working on the Section Website or the Section’s Pipeline magazine, please contact the Communication’s Co-Chair Harry Gong at Harry.Gong@msdh.state.ms.us or at (601) 576-7527 and Hercy Golson, the Communications Chair at hercy.golson@hsutil.org or at (256) 535-1457.

NEWSMAKERS NOTICE

If you have recently been promoted, passed an exam, become certified, retired, become a parent, etc..., the Pipeline would like you to submit a small write-up and a profile picture for consideration in our Newsmakers Section. Please send the information to Harry.Gong@msdh.state.ms.us or call Harry Gong at (601) 576-7527. You can also send information to hercy.golson@hsutil.org.

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Granular Activated Carbon: The Solution to Removing Perflourinated Compounds
It’s a serious problem – with a simple solution.

On August 9, 2016, Harvard University released a study that proved more than 6 million Americans are exposed to harmful perflourinated compounds (PFCs) like PFAS, PFOS, and PFOA, in their water.

Calgon Carbon has provided a successful treatment solution for PFCs for more than 15 years.

What are PFCs?
Perflourinated compounds, or PFCs, are manmade fully fluorinated compounds which are not naturally found in the environment and are used in a range of products such as fire fighting foams and coating additives. PFOS and PFOA are the most commonly produced PFCs. Large amounts of PFCs have been produced during past manufacturing processes and released to the air, soil, and water.

Why are PFCs harmful?
PFOA and PFOS are persistent in the atmosphere and aqueous environments due to their chemical stability and volatility. In their anionic form, PFCs are water soluble and can easily and readily travel from soil to groundwater, carrying the contaminants long distances. Because PFCs are resistant to direct oxidation, photolytic degradation, biodegradation, and air stripping/vapor extraction, their removal is very difficult. Ingesting these contaminants poses risks to the developmental, immune, metabolic, and endocrine health of the consumer. Additionally, animal toxicology reports indicate potential developmental, reproductive and systemic effects and after oral exposure, as PFCs accumulate and absorb in the serum, kidney and liver.

Both PFOS and PFOA are on the U.S. EPA's Drinking Water Contaminant Candidate List 4 (CCL 4), which lists contaminants that are not currently subject to proposed or promulgated national primary drinking water regulations, but are known or anticipated to occur in public water systems. Recently, to provide Americans with a margin of protection from exposure to PFOA and PFOS, the EPA established a health advisory with levels at 70 parts per trillion.

The Solution: Granular Activated Carbon
Granular activated carbon (GAC) is a hybrid mixture of a wide variety of graphite platelets that are interconnected by nongraphitic carbon bonding – the adsorptive capacity of GAC makes it ideal for removing harmful contaminants like PFOA and PFOS.

Recent Accelerated Column Tests (ACTs) of Calgon Carbon type Filtrasorb 400 virgin GAC show successful removal of perflourinated compounds, including Perfluorobutanoic Acid (PFBA), Perfluoropentanoic Acid (PFPA), Perfluorohexanoic Acid (PFHxA), Perfluoroheptanoic Acid (PFHtA), Perfluorooctanoic Acid (PFOA), Perfluorooctane Sulfonate (PFOS), and Perfluorodeconaoic Acid (PFDA).

Incineration of any concentrated PFC waste is required for complete destruction – spent activated carbon containing adsorbed compounds can be thermally reactivated, destroying the adsorbed contaminants and allowing the activated carbon to be recycled and reused.

About Calgon Carbon Corporation
Calgon Carbon is a producer of granular activated carbon and supplies more than 100 types of activated carbon products — in granular, powdered, pelletized and cloth form — for more than 700 applications. The company provides purification solutions for drinking water, wastewater, pollution abatement, and industrial and commercial manufacturing processes. For more information about Calgon Carbon, visit calgoncarbon.com.

* The use of domestic reagglomerated bituminous coal-based GAC removes Perflourinated Compounds (PFCs), but also Total Organic Compounds, Disinfection By-Products, and other Carcinogenic Volatile Organic Compounds (cVOC).
Too much data, too little insight
Berkeley County Water & Sanitation (BCWS) has moved from manual meter reads to remote readings that happen with the push of a button. The result? Massive amounts of data but no clear view into how to use it to benefit their more than 24,000 customers.

Growing at a tremendous pace
Located in the southeastern corner of South Carolina, Berkeley County is the Palmetto State’s largest and fastest growing county.

Providing excellence in customer service is the utility’s mainstay. To deliver on that promise, they must know how much water their customers use today and determine how much they’ll need in the future.

With more than 100 new customers per month, the utility wanted a longer lens for determining future water needs.

Uncover nuggets of knowledge
April Shuler, data management supervisor, has been with BCWS for nearly 15 years and is leading the charge to make sense of the data collected during meter reads and to uncover the nuggets of knowledge that best position the utility for anticipated growth.

She focuses on consumption patterns and missing meter data to address the following concerns:
- Vacant/inactive accounts showing water usage
- Accounts showing continuous consumption vs. zero consumption
- Meter location
- Meter register reads

The logical next step
The path to addressing those issues began in 2006 when BCWS first implemented radio read capabilities. From there, it was a natural progression to the Sensus FlexNet® communication system, a long-range radio network that enables the utility to remotely monitor and manage their distribution assets. Recently, BCWS updated their system with the Sensus® Logic MDM™ Application Suite. With Logic, the utility can:
- Organize, process and validate data
- Display views of meters within their network
- Deliver notifications to key personnel to communicate system issues and status

Uncover data-driven solutions
Since deploying FlexNet, the utility has significantly reduced the time it takes to read meters. What once took nearly three weeks is now accomplished in just two hours.

The Logic suite enables the utility to get the most out of meter read data by efficiently organizing, processing and validating it. With this information, they can:
- Notify customers of potential leaks within 24 hours of their meter showing continuous consumption
- Monitor inactive accounts on a daily basis to ensure no unauthorized water usage is occurring
- Equip crews with the right tools to resolve the issue in one call
- Read all meters on the same day
- Analyze data to spot trends, troubleshoot and prepare for the future

Boldly move into the future
Hughes and his team aren’t overwhelmed by the pace of change. In fact, the BCWS team sees nothing but a bright future ahead.

“Using the information that Sensus technology provides, we’re able to make informed decisions and position Berkeley County for whatever comes our way,” said Hughes. “We’re excited about what the future holds and know we’ll be able to provide our customers with the excellent service they deserve.”
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