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www.njawwa.org
Welcome to the AWWA-NJ section as we move along in 2016. My name is Michael Furrey, President and Owner of Agra Environmental and Lab Services and my story begins way back in 1989. I was two years out of Rutgers with a Chemistry degree and like most had no direction, no career path. Many of you may or may not be aware, but my first introduction into the drinking water industry was in an Environmental Chemistry class.

In 1977, toxic solvents were discovered in one of the three main wells supplying drinking water to South Brunswick Township in New Jersey. The attempt to remove this contamination has become a symbol of the broader problems with ground water cleanup nationwide.

The documentary movie played by the professor remained in my head and planted the seed for my desire to be a part of the environmental movement.

My first job was as a bench chemist for Shering Plough followed by a biotechnology company specializing in the development of new drugs for the eye and joint surgery (extracted from a rooster comb...I kid you not!!)

I was making no money and while cruising the want ads, I came across a chemist position at a “local reservoir.” Mr. Jerry Notte, my Water Hammer bandmate was the person who interviewed and hired me. He was particularly impressed with my resume with a claim I was a band manager for a famous band!! Better yet, he saw a potential in me and gave me my start in the business which I am still grateful today.

I am thankful for those early years where my thirst for knowledge and continuing my education was the key to my success. Jerry as well as the late Dean Noll (an icon in the business) were the ones who strongly encouraged me to “get involved.” My early days with the section were on the Education committee because I was interested in learning more about the business. Needless to say the first few meetings were about licking stamps to get flyers out to the members...not so exciting and boring to say the least. But this was the way to reach out to the membership with the emphasis of knowledge sharing, networking and making us smarter professionals ready to take on the challenge of providing safe drinking water to the people of NJ.

Years later I left my position at NJDWSC to start a new path, my own business. I started my new business with about $13 dollars in my bank, married with 4 young children. Scary but exciting times. I asked my bandmate from years gone by and close friend Max Huber if he was interested in taking on a new challenge. Like most new business owners, it was a humble beginning but we started out with an idea and a dream to provide a company that serves a part of the industry that desperately needed our expertise. We found our “niche” and we worked hard every day to get to where we are here today.

No matter how hard the challenges were, there was an organization that was always there for me: the American Water Works Association of New Jersey. The section kept me connected to the most important aspect of the organization and the business; the people. The individuals in the organization, the ones who really get involved make up the committees who make the section strong. There is not one individual who makes us great; it is when each individual donates their valuable time to make up a committee or group of people that makes our section great.

It is an honor and privilege to now serve as the chair of the section but it is my associates (YOU) that make it great. My goal is to motivate and encourage as many as possible to get involved; to do one small thing a day to make our industry better. It is sometimes unfortunate that there are problems with our industry, such as the situation in Flint, Michigan, that get the most attention. We need to stand up and be proud of our accomplishments, always willing to challenge the “norm” and try new and bold initiatives, turning a negative into a positive.

Here are a few examples of such great things the section has done in 2015 and well into 2016:

1. Established a new Strategic Plan and implemented new section policies
2. Our Audit Committee has established new policies that make the section financially sound.
3. Our Award and Recognition committee always striving to recognize the accomplishments of our members.
4. Our Conference and Technical Program Committee putting together one of the best annual conferences throughout the northeast. I had the honor of watching how it all works two words: VERY IMPRESSIVE!!!!
5. An Education Committee continually providing education to our members, THE most important function of the Section
6. The Infrastructure Committee focusing on the most important issue of our time and in our business, infrastructure improvement. Thank you Alan Dillon for your time in the Section and your dedication to the Licensed Operator Community. Good luck with your next venture!!
7. A Membership Committee always finding creative ways to get industry professionals more involved.
8. An Operational Risk Committee with the focus on safety in our business.
9. A Public information Committee striving to focus on the positive NOT the negative that makes our industry so important.
10. A Salute to the Publications Committee for getting the written word to our membership, our way to communicate our positive message.
11. A Research Committee who tries their best to be on the cutting edge of technology making a connection to the educational institutions in our state.
12. A Salute to our Retired Professionals who are so dedicated to this business, they do their best to give back through their invaluable life experiences.

(continued on page 4)
On Friday, April 8, 2016, the Young Professionals Committees (YP) of the Pennsylvania AWWA and New Jersey AWWA jointly hosted a facility tour of Philadelphia Water’s Queen Lane Water Treatment Plant in Northwest Philadelphia. Over 20 young professionals attended and were provided a detailed overview of the entire plant and the water’s journey from river to tap.

The tour began at the plant’s raw water reservoir. Raw water is delivered to the reservoir by a pumping station on the Schuylkill River. The reservoir, located in an elevated region of Philadelphia, offered spectacular views of the city. But this wasn’t only for the great view; the plant’s hydraulics were designed to operate on gravity alone, and the head in the reservoir is all that is needed to carry the water throughout the rest of its trip.

After a significant period of detention in the reservoir, the raw water crosses beneath Fox Street via a conduit to the flocculation/sedimentation tanks. Here, coagulants are added in areas of gentle mixing, followed by settling. The clarity of the water is now in single digit NTU values.

Next, the water travels back under Fox Street to the filters, where water flows downward through a mixture of several media and receives its final cleaning. The most eventful part of the tour occurred when the group was given a demonstration of a filter backwash. As influent and effluent valves were closed off and a drain valve opened, the water level in one of the filters dropped drastically and the gravity-fed backwash cycle began. After a few minutes of surface agitation, the backwash began in earnest, and not-so-clean water started pouring out and over the walls of the filter. A few minutes later the water was running clear and the tank slowly transitioned back to normal operations.

The final stop of the tour was appropriately the finished water basins where ready-to-drink water is stored. As tour-goers peered through the access hatch into the dark covered basin, it was easy to completely miss the water and see only the bottom of the basin. Not until the light catches a few ripples is it evident that the water is exceptionally clear and fit to drink.

After leaving the plant, tour-goers convened at a local restaurant for a happy hour networking event hosted by the YP committees.

If you are interested in attending a future YP committee event, have an idea for a future event or would like to assist in planning a future event please contact the following committee chairs.

PA-AWWA YP Committee Chair
Suzanne Ciavola
suzanne.ciavola@aecom.com

PA-AWWA YP Committee Vice Chair
Ralph R. Wawrzyniakowski
Ralph.Wawrzyniakowski@amwater.com

NJ-AWWA YP Committee Chair
Jordan Spitzer-London
Jordan.SpitzerLondon@amwater.com

NJ-AWWA YP Committee Vice Chair
Brian Van Nortwick
BVanNortwick@H2M.com

Jordan Spitzer-London is a Production Supervisor at New Jersey American Water and Chair of the Young Professionals Committee.
Introducing the New Safety and Security Committee, No Longer Operational Risk...
By Joseph Aldighieri

My name is Joseph Aldighieri and I am pleased to announce that I am the new chairperson of the Safety and Security Committee. The New Jersey Section of AWWA Board of Trustees has found it appropriate to upgrade the Operational Risk Committee and re-brand it the Safety and Security Committee. This effort was approved in the hopes that the more accurate name will attract new members and ultimately better accomplish the committee goals laid out by the Strategic Plan.

On behalf of the Safety and Security Committee of the New Jersey Section, I would like to invite all members to join this committee. You do not have to work specifically in safety or security to be able to lend a hand, we are looking for ANY engaged member. For example, if you are an operator, you could contribute by suggesting types of safety measures to maintain safety on the job operators do. Or if you are a manager, you can contribute by engaging in or hosting events that will promote a safe workplace at your facility. Anyone interested in joining the Safety and Security Committee, please go to www.njawwa.org, click the link to ‘Join a Committee’, fill out the application and click Safety and Security Committee or you may contact me directly at jaldighieri@pvwc.com.

The committee is planning many exciting events that may pique your interest.

In addition, we have plans to hold a confined space workshop on Friday, October 21 at the Middlesex Fire Academy in Sayreville. The Confined Space Workshop will provide you and your staff with the training necessary to be the entrant, attendant and or supervisor of confined space operations. Please look for details on the website calendar and RSVP soon, because space is limited. Also coming soon, view our committee page on the website for pertinent safe work practices and important information regarding safety and security. I look forward to your interest! You will be so happy to be involved in this great committee as the benefits of safe and secure workplaces are priceless.

Joseph Aldighieri is a Carpenter/LFWTP Safety Coordinator at the Passaic Valley Water Commission and Chair of the Safety and Security Committee.

A Welcome Message from the Chair (continued from page 2)

13. An extremely active Student Affairs Committee who are dedicated to reaching out to our youth through scholarships and mentoring programs that are a model for the other sections and throughout the country. Be proud of what you have accomplished.

14. A Water Utility Council who actively works with our regulators and legislators on the rules and regulations that guide our business

15. A Young Professionals Committee whose members make up the future of our business, those who if they stay become Old/Seasoned Professionals. We need to find the next group of leaders in our industry. Please help us with that challenge!

16. Water for People, an impressive organization who raises money for the less fortunate. A salute to their recent effort to team up with the LOC on the Sporting Clay event raising nearly $10,000, a model for the future.

17. And lastly to the Licensed Operator Committee, recently “rebranded” leading the way on addressing a crucial need to revise and update operator regulations, providing critical education to the industry and its recent introduction of a $5,000 Licensed Operator Scholarship/Mentorship award designed to assist individuals interested in becoming a key part of our business, the licensed operator. I am proud to be a part of this group of comrades, amigos on the front line every day, 24/7.

My goal is simple, to reach out to every committee and work to make them even better than they are today. This is my promise; I and all the members of the Board of Trustees are always available to you. Bring us your bold and fresh ideas and together we will make it happen. Together, the Engineers, the Water Operators, the Laboratory Professionals, the Regulators, the Consultants, the Vendors and all people in each of your lives, family and friends working together for one common goal to provide the best and safest drinking water supply to the people we serve.

I want everyone to recognize the Board (especially our past chairs: Dave, Carol, Dennis, Mark, and Steve for their guidance to myself and their extreme dedication) and the most importantly the committee chairs and all their members because these are the people who will make us great now and well into the future.

Thank you all for your support and I am looking forward to a great 2016 and beyond.

Michael Furrey is the Owner of Agra Environmental and Laboratory Services and Chair of the NJ Section
Water For People Committee at AWWA NJ Conference, Recent Fundraisers, and Upcoming Events

By Jessica Kretch

On Tuesday, March 15, 2016 the American Water Works Association – New Jersey Section’s (AWWA-NJ) Water For People Committee presented a check in the amount of $120,336 for funds raised for Water For People during 2015. The check was presented by outgoing Committee Chair Carmen Tierno of New Jersey American Water to AWWA-NJ Section Chair David Tanzi of CDM Smith at the 81st Annual AWWA-NJ Conference in Atlantic City, NJ. This is the largest check that the Water For People Committee has presented in the Committee’s 15 year history.

Also at the Annual Conference, the Kenneth J. Miller Founders Award was presented to Erika Vardaxis of New Jersey American Water for her volunteer work and dedication to Water For People. Erika has been active in the committee since 2010 and is currently serving as Vice Chair. Erika has organized the “Turning Wine into Water” event for the past three (3) years, helping raise more than $75,000 for Water For People.

Finally, the Committee recognized the hard work and dedication of outgoing Chair Carmen Tierno. During Tierno’s two year leadership role, more than $220,000 was raised for Water For People. With his tenure over, Tierno passes the Chairmanship to Nicholas DeVecchis, also of New Jersey American Water, who has set a goal for the Committee to raise $250,000 in the next two years.

The 3rd Annual Water For People Dine and Dance raised over $18,000 for Water For People on February 26, 2016. The evening included a five course meal with live music and dancing. This very successful event is organized by Michael Bange of New Jersey American Water.

On May 2, 2016, the Water For People Committee held the Water For People Golf Classic at Royce Brook Golf Club in Hillsborough, New Jersey. This was the most attended and successful Golf Classic the Committee has ever had thanks to the hard work and dedication of over a dozen Committee volunteers who helped organize the event. The Golf Classic raised $39,000 for Water For People. A big thanks to all the sponsors and golfers who attended the event.

The Committee’s next fund-raising event will be the 2016 Family Night at the Ballpark held on Friday, July 29th at Trenton Thunder’s Arm and Hammer Park. Game tickets are available for sale through the Water For People Committee with a portion of the proceeds going to Water For People. Sponsorships are also available and 50/50 tickets will be sold throughout the stadium. Please contact Jacquelyn Weaver, Jacquelyn.Weaver@amwater.com, of New Jersey American Water for more details.

Please Save the Date for the 11th Annual “Turning Wine into Water” Event to be held on September 23, 2016. This wonderful evening of delicious food and wine will be held once again at Laurita Winery in New Egypt, New Jersey. Look for the event brochure, registration and sponsorship levels within the coming months.

Water For People (WFP) is a nonprofit organization that exists to promote the development of high quality drinking water and sanitation services, accessible to all, and sustained by strong communities, businesses, and governments. Water For People has provided safe water and sanitation for 4 million people in 9 countries since its establishment in 1991.

The Water For People Committee is always looking for new members to assist with planning events and raising awareness of the mission of Water For People. If you are interested in volunteering or finding out more about these events, please contact Nicholas DeVecchis at Nicholas.DeVecchis@amwater.com.

For more information about AWWA NJ, please visit our website: www.njawwa.org or call Mona Cavalcoli, Section Manager, at (866) 436-1120.

Jessica Kretch is an Environmental Engineer at CDM Smith Inc. and the Secretary of the Water For People Committee.
Licensed Operator Committee Stays Busy
By Frank Marascia

True to its mission of supporting the New Jersey licensed operator community by providing educational outreach, professional development, and regulatory review the AWWA NJ Licensed Operator Committee (LOC) hit the ground running in 2016! With members representing public, private, small, and large water utilities, as well as the New Jersey Department of Environmental Protection (NJDEP), this diverse, active committee has several recent accomplishments benefiting not only the AWWA NJ, but the drinking water community as a whole.

During October 2014 the LOC invited many highly qualified and respected operators to discuss current New Jersey licensed operator regulations which were set to expire in November 2015. After much debate and deliberation a “white paper” was developed identifying recommendations for addressing the growing concern over the loss of licensed operators within the state coupled with a minimal number of young professionals seeking licenses to take their place. Several key issues were identified including reciprocity, an “operator in training program”, and the operation of Level 4 treatment systems. The LOC met with NJDEP to present and discuss the “white paper” on September 11, 2015. A good dialogue was developed and many of the recommendations were well received. The NJDEP ultimately readopted the rules without change, but indicated their willingness to continue to work with the LOC on these issues.

Understanding the need to foster new professionals into the water industry the LOC, in collaboration with the Student Affairs Committee, developed a fellowship/mentorship program which was adopted by the AWWA NJ Board of Trustees on January 6, 2016. The program is aimed at an individual that is interested in pursuing a career in the water industry as an (NJDEP) Licensed Operator. The applicant can be a current employee of a water utility or a student that is seeking to advance his/her career or an individual interested in a future career in the water industry. More information on the fellowship/mentorship can be found at: Operator License Fellowship/Mentorship Guidelines.

On November 11, 2015 the LOC, in partnership with Water for People, held its annual Sporting Clays Social. The event, one of best attended in AWWA NJ history, drew over 100 participants and raised $10,000 for Water for People. A great time was had by all despite the inclement weather and we are looking forward to next year’s event.

Lastly, coming off the success of the Licensed Operator Tract at last year’s AWWA NJ Annual Conference the LOC has put together a new and improved program for this year’s conference. With the licensed operator in mind, the tract combined lectures on salient topics such as “how to prepare for a licensing exam” and “how to conduct Revised Total Coliform Rule assessments” with “hands on” instruction on control valves, hydrants, and leak detection providing a unique educational experience.

Anyone interested in learning more about licensed operator issues or wishing to become involved with the LOC can contact Frank Marascia at frank.marascia@amwater.com.

Frank Marascia is a Production Manager and NJDEP Licensed Operator of Record with the New Jersey American Water Company and is the Chair of the AWWA NJ Licensed Operator Committee.

The LOC met with NJDEP to present and discuss the “white paper” on September 11, 2015. A good dialogue was developed and many of the recommendations were well received.
Emerging Contaminants – What You Need to Know

By Eileen McCarthy Feldman, PE, PMP and Bill Becker, PhD, PE

Perfluorinated Compounds - PFOA and PFOS

What are they?
In May, the EPA issued new guidelines for perfluorinated compounds (PFCs) in drinking water. These PFCs included in the guidelines are perfluorooctanoic acid or PFOA (also known as C8, PFOA is a processing aid in the manufacture of Teflon™) and perfluorooctane sulfonate or PFOS (commonly found in fabric protectants). These are contaminants of concern at low levels for pregnant or breastfeeding women because they bioaccumulate and can be passed on to the baby.

What are the new guidelines?
While there is no federal drinking water Maximum Contaminant Level (MCL) for PFOA and PFOS, the new EPA guideline is 0.07 mg/L for PFOA, 0.07 mg/L for PFOS, and 0.07 mg/L for PFOA and PFOS combined. The EPA had previously instituted a Provisional Health Advisory level of 0.4 mg/L for PFOA and 0.2 mg/L for PFOS for short-term exposure in humans.

How can I treat for PFOA and PFOS?
Although the removal of PFCs from source waters depends on concentration, raw water quality and other variables, several treatment processes have proven to remove up to 90% or greater of PFCs in finished water. Granular activated carbon (GAC) and high pressure membrane filtration can remove over 90% of PFCs from source water. Some powdered activated carbons (PAC) have been shown to remove PFCs though the efficacy is typically limited by contact time and dose. Anion exchange has been successful at removing between 10% to over 90% of PFCs from drinking water, depending on the specific compound, the type of ion exchange resin, and other water quality parameters. The success of advanced oxidation for removing PFCs is generally limited due to their resistance to oxidation.

What are the implications to my water system?
PFOAS and PFOA were monitored as part of the Unregulated Contaminant Monitoring Rule 3 (UCMR3). If your water system had elevated PFOA and PFOS concentrations, the following steps are recommended:

- Monitoring plans should be put in place if PFOA or PFOA detection has occurred in past sampling.
- Elevated levels of PFCs should be reported to NJDEP to determine the course of action.
- Outreach should be conducted to inform public of monitoring and any potential concerns for target populations.
- Bench-scale testing (jar testing and GAC column studies) along with pilot-scale GAC studies are suggested for evaluation at site specific locations.

If PAC is of interest, AWWA has a series of worksheets and protocols to guide the evaluation of PAC for water treatment. The spreadsheets were developed to manage cyanotoxins in water but the protocols and data management will be similar for PFCs. The information is free to AWWA members and is available at: http://www.awwa.org/resources-tools/water-knowledge/cyanotoxins.aspx.

1.4-Dioxane

What is it?
1,4-dioxane is a solvent and stabilizer that is used in many industrial applications and can be found in some cosmetics and personal care products. Because of its historical and current uses, 1,4-dioxane has been detected in groundwater and surface water. It was monitored as part of UCMR3.

What is the latest information from EPA?
The UCMR3 April 2016 Data Summary1 provided a “draft reference concentration” for all compounds monitored as part of UCMR3. The reference concentrations are based on publically-available health information found various EPA resources. Note, the draft reference concentration does not represent an “action level” nor EPA intent to establish a future drinking water regulation.

In the latest EPA publication1, more information was provided for the draft reference concentration for 1,4-dioxane. In the April 2016 publication, the draft reference concentration for 1,4-dioxane is 0.35 mg/L to 35 mg/L (0.35 mg/L is associated with a 1-in-a-million cancer risk and 35 mg/L is associated with a 1-in-10,000 cancer risk). In previous EPA documentation (2012 Edition of the Health Advisories Table) the only reference concentration listed was 35 mg/L.

How can I treat for 1,4-dioxane?
Advanced oxidation has been proven to remove 1,4-dioxane, with UV/AOP being the typical treatment of choice though ozone/peroxide can provide removal as well. Reverse osmosis and GAC provide only limited removal due to the highly water soluble nature of 1,4-dioxane and its relatively small molecular size.

Next Steps with Emerging Contaminants

The AWWANJ Research and Technology Transfer Committee along with the Technical Program Committee are working together to provide additional information on emerging contaminants to our members at upcoming Section seminars and conferences.

Eileen McCarthy Feldman, PE, PMP, is Chair of the AWWANJ Research and Technology Transfer Committee and a Senior Associate at Hazen and Sawyer working on drinking water treatment, supply and regulatory compliance. Bill Becker, PhD, PE, is Corporate Drinking Water Practice Leader at Hazen and Sawyer and an Adjunct Professor at Columbia University in the Department of Earth and Environmental Engineering. He has conducted applied research on a variety of water quality and treatment topics throughout the country.

Student Affairs Update
By Brian Van Nortwick, E.I.T.

The Student Affairs Committee has been very active to start off 2016, including hosting the 2nd annual Student Filter Building Competition, facilitating a jam-packed student program at the annual AWWA NJ conference in Atlantic City, and participating in various student outreach activities during Drinking Water Week 2016.

Student Filter Competition
On Saturday, February 27, 2016, the Student Affairs Committee hosted its 2nd Annual Student Filter Building Competition at Middlesex Water Company’s C.J.O. Water Treatment Plant in Edison, NJ. The competition featured homemade water filters built by teams comprised of high school and college students. The filters were judged on a number of criteria including effluent flow rate, weight, effluent turbidity, cost, and sustainability. As was the case last year, the students’ level of creativity and effort was truly impressive. The winners of the competition received cash prizes, and an all-expenses paid trip to the NJ Section Annual Conference in Atlantic City for a chance to compete in the Student Research Poster competition.

The winners were as follows:
• 1st place: RU Purified
• 2nd place: Rutgers MAE
• 3rd place: Toms River HS South Water Filter

Special thanks to all of our volunteers and the folks at Middlesex Water for taking the time out of their Saturday to make this another successful event!

Annual Conference
The 81st Annual NJ Section Conference was full of student activities to keep student conference attendees engaged throughout Students Day on Wednesday, March 18.

The Student Research Poster Competition had seven entries from undergraduate and graduate students from Rutgers University, NJIT, and Rowan University. The poster judges, including AWWA President Gene Koontz and visiting AWWA Vice President Jon Eaton, were very impressed with this year’s entries. First place in the undergraduate division was awarded to Mahaa Ahmed from Rowan University, for her research poster titled “Evaluation of Various Adsorbents for Arsenic Removal from Water.” First place in the graduate division was awarded to Wanyi Fu from NJIT for her research poster titled “Low Cost Ceramic Membrane Applications in Drinking Water Treatment.”

Students were also able to attend a student-centric educational track, put together in conjunction with the Technical Program Committee. Topics covered included an overview of the Safe Drinking Water Act and Clean Water Act by Mark Theiler and Laura Norkute, as well as a crash course on all things groundwater and wells by Jim Schultes. Students also had the opportunity to meet and network with industry professionals – both young and seasoned – during Wednesday afternoon before the business meeting and Trivia Bowl.

Teamed with representatives from the Licensed Operator Committee, several students...
Student Affairs Update (continued from page 8)

participated in the Trivia Bowl to showcase their knowledge in all things drinking water. In the end, the team “All Wet” led by Mark Ferraro claimed the top prize.

Drinking Water Week

Drinking Water Week took place from May 2nd to May 6th this year. The Student Affairs Committee held its annual Elementary Student Poster Contest with the theme of “Celebrate Tap Water.” Students from all over New Jersey submitted colorful and interesting hand drawn posters. The creators of the winning posters each received a $25 gift card, and the top participating classes overall received a pizza party and classroom presentation. Sophia Heng visited several winning classes at the Tuscan School, and Brian Applegate and I visited Mrs. Selfridge’s first grade class at Tuckerton Elementary School. The students were very engaged in learning the basics of water treatment, asking many pertinent questions and showing their knowledge and understanding of the water cycle. They were also eager to see the homemade filter demonstration prepared by Brian Applegate, and were amazed at how clear the water coming out of the filter was!

TOP POSTERS

Top 1st Grader: Cynthia Stamatogiannis, Tuckerton Elementary
Top 2nd Grader: Mira Klein Maggio, Tuscan School

In an effort to combat the increasing cost of tuition, the Student Affairs Committee was also pleased to award scholarships to three very deserving students during Drinking Water Week. Each scholarship is worth $5,000, distributed over the course of two years in separate $2,500 installments.

The Drinking Water Careers Scholarship – awarded to an undergraduate student entering their sophomore, junior or senior year of college who is interested in a career in drinking water – was awarded to Austin Hall from Rutgers University, currently studying Civil and Environmental Engineering.

The Drinking Water Continuing Education Scholarship – awarded to a high school senior who is planning to continue their education at a college, trade or vocational/technical school – was awarded to Emma Winkley of St. Rose High School. Emily is planning to study Engineering at Lehigh University beginning in the fall.

The Family Drinking Water Careers Scholarship – awarded to children of Section members who are pursuing their education at an undergraduate, graduate or other vocational/technical school – was awarded to Megan Andreasen of Freehold Township High School. Megan is planning to study Environmental Science at The Ohio State University in the fall.

Special thanks to past SAC chair Sophia Heng for her guidance during the committee chair transition period (and several boxes of giveaways now crammed under my desk). She has left some very big shoes to fill and I am greatly looking forward to continuing the initiatives she has started!

Brian Applegate demonstrates a homemade water filter for students in Mrs. Selfridge’s first grade class.

Brian Applegate and Brian Van Nortwick pictured with Mrs. Selfridge’s first grade class.

Brian Van Nortwick is an Engineer at H2M Architects + Engineers and is Chair of the Student Affairs Committee
ACE17 is Coming to Philadelphia!

By Mark Tompeck

Even though ACE16 in Chicago has just finished planning for ACE17 in Philadelphia has been on-going for several months. While the Pennsylvania Section is the primary host for ACE17, the PA Section has asked both the New Jersey and Chesapeake Sections to help host and organize the 2017 AWWA Annual Conference and Exposition (ACE17). The Pennsylvania, New Jersey and Chesapeake Sections have developed a plan to organize and staff the volunteer positions in the various committee areas that include:

- Facility Tours
- Room Monitors
- International Visitors
- Professional Program
- Welcome
- Competitions
- Publicity
- Young Professionals

Each of the above committees will be led by a team of three people (one from each Section) and committee activities will be performed by volunteers from all three Sections. While the leadership of the committees has been established, there are significant volunteer opportunities for NJ Section members. Depending upon the extent of the volunteer position and the individual's situation, there may be an opportunity to receive a free registration to ACE17 in exchange for your volunteer services.

If you are interested in volunteering for one of the committees listed above, please contact Mark Tompeck at mark.tompeck@mottmac.com. In your e-mail, please note your name, contact information (phone number and e-mail address) and which committee(s) you may be interested in volunteering for. A listing of volunteers is being assembled and your information will be passed along to the leaders of the respective committee for follow-up contacts.

Mark Tompeck is the former AWWA NJ Section Director, CEC Advisory Board Member and Technical Review Committee Member, and Water Practice Leader/ Senior Vice President at Mott MacDonald

Living History 9th Edition now available on YouTube!

By Neil Goldfine

Each year the retired professionals committee creates a Living History Project Video which is presented at the Annual meeting. The Living History Project is a documentary series where retired industry professionals talk about their water industry experiences. They share with us the stories and their viewpoints on the Section and how changes in local and regional regulations changed the landscape of our profession.

The main goal is to record and document the history of our section and the water history of New Jersey. However, we hope that we will realize two additional benefits. The first is to encourage high school seniors, college students and others to choose a career in the exciting and rewarding water industry. The second is to give the young professionals in the industry a global perspective of the how, when, where, who and why we are where we are today.

The 9th edition (2016) interviewees were Rocco Maiellano, former Executive Director of the Evesham Municipal Utilities Authority, and Brent Cacallori, former General Superintendent and Chief Engineer of the Trenton Water Works. The video can be viewed here.

Neil Goldfine is the President of Mavin Consultants L.L.C and Chair of the Retired Professionals Committee.

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AWWA NJ appreciates the support of all of our sponsors throughout the year. For more information on the AWWA NJ Sponsorship Program, visit our website at www.njawwa.org.
Section Director Report

By Mark Tompeck, P.E.

For the last three years, I have had the honor and privilege of serving the Section as the AWWA NJ Section Director. As I turn over the reins of Director to Steve Blankenship, I would like to take this opportunity to thank all of the Section members and Board members who supported my efforts over the past three years. As Section Director, I served in the role as the liaison between the Association and the Section and was responsible for keeping the Section Board apprised of important issues within the Association. The last three years have been a busy time and there have been many changes within the Association. 2014 set the stage for most of the change that has taken place for the Association and has established an exciting path that will bring enhancements for our membership for many years to come.

Perhaps the single most important development in 2014 was the adoption of the AWWA Strategic Plan and creation of AWWA2020 – One AWWA, which established the roadmap for many of the membership enhancements and programs that are currently being implemented. The Strategic Plan recognized the importance of the bond between the Association and Sections and established a path to strengthen and improve upon that relationship as a means to provide greater value to our membership.

Some other notable programs that were launched in 2014 include the Philanthropic Program which included the Community Engineering Corps, Scholarship Trust and Student YP program.

2015 saw the implementation of the India initiative and the growth of AWWA outside the core North America geographic region. While it is off to a slow start, the India initiative is beginning to develop and is expected to grow substantially over the next few years. Another initiative that is gaining ground is Total Water Solutions. Total Water Solutions is a recognition that all water (drinking, wastewater, stormwater and reuse) are critical interconnected parts of the water cycle and AWWA's mission must consider all of them as part of our mission. AWWA has instituted Partnership for Clean Water, the wastewater equivalent to the Partnership for Safe Water, as one of the first steps in incorporating wastewater into Total Water Solutions. One of the other strengths of AWWA is the development and publication of Standards. AWWA also recently began development and publication of wastewater standards.

In late 2015 and early 2016, AWWA in conjunction with the Sections began small systems training. This is yet another example of the change in relationship between the Association and Sections in working together to deliver value to our membership. AWWA has also demonstrated leadership throughout the Flint, Michigan water crisis by providing educational materials and guidance to our membership that can be used to communicate with the public.

As you can see from the brief summary above, a lot has happened over the past three years and there is a foundation for continued membership value for many years to come.

Personal notes

While I was on the NJ Section Board, I had the opportunity to observe what it meant to serve as Director from two outstanding AWWA members. Both Rich Russo and John Young demonstrated the type of leadership necessary to serve as Director and to provide guidance to the Section Board, not only for Association matters, but also for historical perspective on Section issues. Likewise, Frank Moritz also provided me with guidance and mentorship as I followed him as Section Director. I thank Rich, John and Frank for their guidance and support during my time on the Section Board and while serving as Director.

At the 2016 Annual Conference I was honored with the Fuller Award. In my mind, the Fuller Award is the most important engineering award presented by AWWA and I am humbled to have received the award. I thank the Fuller Award Committee chaired by Russell Ford for selecting me as the 2016 recipient. My engineering journey started many years ago and over the last 37+ years, I have had many mentors and colleagues who have played a key role in my success. Let me start by thanking Nick DeNichilo who is one of the greatest teachers that I have ever had. Nick and I have a unique relationship and he has taught me more about engineering than anyone else and I have been given the opportunity to work on many interesting and challenging projects over my career. No one is awarded the Fuller award without the support of many colleagues and I am no different. I would be remiss in not recognizing my long time colleagues at Killam Associates/Hatch Mott MacDonald/Mott MacDonald including Jim Poirier, Rich Russo, Joe Stanley, John Civardi, Paul Paparella, Carol Walczyk, Mike Polito, Margie Gray, Earl Schneider and Brian Dougherty. Each one of you have played a key role in my career success and I want to thank you for all of your support and dedication.

Mark Tompeck is the former AWWA NJ Section Director, CEC Advisory Board Member and Technical Review Committee Member, and Water Practice Leader/ Senior Vice President at Mott MacDonald
# Trenton Thunder Water for People Family Night @ The Ballpark

**Friday, July 29 @ 7:00PM**

Trenton Thunder
AA Affiliate of the New York Yankees

vs

Altoona Curve
AA Affiliate of the Pittsburgh Pirates

**A Portion of the Proceeds Will Benefit Water for People!**

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Please make checks payable to AWWA NJ with “Water for People” in the memo field.

**TOTAL ENCLOSED: $__________**

Name: ___________________________________________________________
Company: _________________________________________________________
Address: _________________________________________________________
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Submit to:
Water for People
c/o Jacquelyn Weaver
204 Carriage Lane
Delran, NJ 08075

For more information, contact Jacquelyn Weaver at (856) 764-6915 or Jacquelyn.Weaver@amwater.com
New Jersey’s **Top Drinking Water Professionals Honored**

By Summer DeFeo

In March, New Jersey water professionals gathered in Atlantic City for the American Water Works Association New Jersey (AWWA NJ) Section 81st Annual Conference.

During the Conference some of New Jersey’s top water professionals were honored for their contributions in engineering, leadership, years of distinguished service, engagement and volunteerism. Those receiving top honors were:

The **George Warren Fuller Award**, which recognizes distinguished service in the water supply field, was bestowed upon Mark Tompeck of Mott MacDonald. The Fuller Award – one of the most prestigious awards AWWA bestows – is given to an individual for their sound engineering skill and constructive leadership, qualities exemplified by George Warren Fuller, one of America’s most eminent engineers.

Mr. Tompeck has developed a broad range of engineering experience in the area of water supply over the past 33-years. As a Senior Vice President in MM’s Water Division and the firm’s Water Practice Leader, he has worked on a wide range of water supply engineering assignments. These have included feasibility evaluations, preliminary and final designs, permitting, project financing, and construction and facility commissioning for treatment plants, wells, pump stations, pipelines, storage tanks and other water supply facilities. Some of Mark’s notable projects include the design of the Tampa Bay Seawater Desalination Facility Upgrade, the Little Falls Water Treatment Plant Upgrade, and the City of New Brunswick Membrane Treatment Plant.

Tompeck received his B.S. and M.S. in Civil Engineering from NJIT, holds professional engineering licenses in 10 states, and is a Certified Professional by the Design Build Institute of America. He is a long time resident of Randolph Township.

The **Harold V. Florence, Jr. Meritorious Operator Award** for distinguished service in water operations was awarded to Robert K. Fullagar for his work at the Middlesex Water Company. The Operator of the Year Award is named for Harold V. Florence, Jr., a licensed water utility operator, mentor, and long-time AWWA-NJ member. It is bestowed annually upon an individual who has brought a higher degree of excellence, learning, initiative and resourcefulness to bear in the operation of a public water supply system.

Fullagar joined Middlesex Water Company in 1997 and serves as Director of Distribution. He was recently named Water and Wastewater Systems Sector Chair by the New Jersey Board of Public Utilities Division of Security and Reliability to represent the state’s water and wastewater systems on the NJ Office of Homeland Security and Preparedness Infrastructure Advisory Committee (IAC). Fullagar is active as Vice Chair of the Operations Committee of the New Jersey Utilities Association and a member of the Licensed Operator Committee of AWWA-NJ, the Civil Engineering National Honor Society, the American Society of Civil Engineers, the National Fire Protection Association and ASIS International. He is a member of Lead NJ-Class of 2015. A resident of Basking Ridge, Fullagar also serves as an Officer in the Basking Ridge Volunteer Fire Company.

(continued on page 14)
New Jersey’s Top Drinking Water Professionals Honored (continued from page 13)

The Next Generation Award was presented to Eileen Feldman of Hazen and Sawyer. This award is given to a member who is a young professional (age of 35 and under) and who is actively participating in the Association’s activities and programs. This award has been developed to encourage young professionals to become active in the AWWA New Jersey Section and to encourage employers to allow their young professionals to participate.

Ms. Feldman is an experienced water engineer who conducts and manages projects in the drinking water area for public and private water utilities. As a Senior Associate for Hazen and Sawyer, Ms. Feldman has worked on a variety of drinking water related projects including facility master planning, firm capacity evaluations, water supply rehabilitation, designing water treatment plans and distribution systems and provided emergency response to support water quality, treatment and capacity.

Feldman received her B.S in Systems Engineering-Environmental Systems and Management from University of Pennsylvania. She is a certified Professional Engineer in New York and New Jersey along with being a Project Management Professional.

The Kenneth J. Miller Award was given to Erika Vardaxis of New Jersey American Water for her volunteer work with Water for People. Water for People, a nonprofit organization, is dedicated to helping people in developing countries improve their quality of life by supporting the development of locally sustainable drinking water resources, sanitation facilities and health and hygiene education programs.

Vardaxis began her career with New Jersey American Water as Staff Engineer, where she managed a variety of capital projects before becoming an Engineering Project Manager. She currently serves as a Production Supervisor. Ms. Vardaxis received her M.S. in Engineering Management from Drexel University and her B.S. in Civil Engineering from Lehigh University.

The Fresh Ideas Award was given to Mark Theiler with the New Jersey Department of Environmental Protection (NJDEP). The AWWA NJ Section selects the best presentation by a young professional based on originality, topical interest, content, speaker’s knowledge of topic, use of audio-visual elements, and overall presentation. Theiler presentation was “Regulatory Review: Treatment of Contaminants of Emerging Concern”.

Before joining the NJDEP Mr. Theiler graduated from Rutgers University with a degree in Chemical Engineering in 2013. He worked on projects such as the determination of the overall heat transfer coefficient using a tank heater system, the synthesis of biodiesel via the transesterification of triglycerides in a BSTR, rate constant determination of base catalyzed hydrolysis of ethyl benzoate and quantitative analysis of aerobic fermentation of Saccharomyces Cerevisia.

For more information about the AWWA NJ Section, please visit our website: www.njawwa.org or call Mona Cavalcoli, Section Manager, at (866) 436-1120.

Summer DeFeo is the Communications Coordinator at Middlesex Water Company and Co-Chair of the Public Information Committee.
Publications and Public Information Committee have Joined Forces!

By Brian Applegate, E.I.T.

In an effort to help highlight the achievements of the sections and to help bring the NJ water industry to the social media forefront, the Public Information Committee and Publications committee have joined together to work as one. The new joint committee shall just be known as the Public Information Committee. Pipeline will continue to have a dedicated editor, who will serve as a part of the newly established committee. As articles are submitted, and distributed we hope to also share many of these items through press releases and social media. The Committee recognizes that Pipeline may not always be on schedule with events in the Section early enough to advertise, so now this information will be able to be shared through our new web page and through our social media channels (YouTube, Facebook, Twitter, and LinkedIn).

Summer DeFeo and I will serve as Co-Chairs through the remainder of our terms, until a new chair is found. Both of us have worked to help establish our new web page, and will continue to help keep this page up date with all the latest section news.

Brian Applegate is an Engineer with Mott MacDonald and Co-Chair of the Public Information Committee
New Website Launched in June!

By Mona Cavalcoli

AWWA NJ is pleased to announce that it launched its new website upgrade in June. The website, which operates from a software package/platform called "yourmembership.com" has a clean, fresh new look, easier navigation, and many new features including:

- Easy-access Sign In for members and new site visitors
- Community Calendar of Upcoming Events & Activities
- Smoother online registration for events and conferences
  - Now with option to register online and pay with check/municipal purchase order
  - Instant invoicing for non-credit card payments (checks/purchase orders)
  - Instant registration confirmation
- More robust career center, featuring ability to search/post jobs or resumes
- Ability to view credits, print transcripts and/or statements of credit*
- Online Store to purchase sponsorships online

*An important note about Continuing Education Credits: As of the launch of the new website on June 10, we have only migrated credits from the 2016 Annual Conference in Atlantic City and from the May 18, 2016 Educational Seminar on Lead & Copper Rule Compliance and Ethics. All historical credits (credits earned prior to October 1, 2015) will be migrated to the new site in stages. We appreciate your patience as we work to bring this data over to the new platform.

It's all about the PROFILE

AWWA Members (and non-members) will need a profile to engage in many of the new website features – When we launched the site on June 10, AWWA members automatically received a username and password to sign in and activate their profile.

If you are unsure of whether or not you received a notification, or didn't and believe you should have – please contact the Section Office at 866-436-1120 and speak with our Section Manager, Mona Cavalcoli.

By having an active profile on the new website, you'll be able to view and manage your profile, including:

- Editing your bio and preferences
- View event registrations (current and past)
- View your credits, and print transcripts and statements of credit
- Create and post a resume
- View and pay open invoices for conferences or training

Mona Cavalcoli is the Section Manager for AWWA NJ
Join AWWA Today!  By Patrick Cole, P.E.

2016 is an exciting and critical time to be a participating member of the drinking water community. Water infrastructure is in the news more than ever before, and as water professionals, our friends, neighbors, and customers depend on us to be as up-to-date as possible on our industry’s current problems, and the best solutions.

You may look back at critical or successful moments in your career and say, “there was a time when I had just the right information,” or, “I was able to reach out to just the right person, and get the advice or make the connection I needed.” This is the essence of AWWA. Our community of professionals is where you will find the most value for your investment. How?

• **Networking** – Building the relationships to call upon when you hit a hard problem
• **Knowledge** – Continuing education, showing you how to be the best, most efficient professional
• **Career Support** – A hub of opportunity for employers and job seekers

Do you live and breathe water? Then AWWA is the place that will make your career take off. Your membership only grows more valuable as you get more involved. Join a committee. Take time to attend an event – you’ll find that you have more resources at your fingertips than ever before.

As more members of your utility or office group become members of AWWA, your network grows exponentially. You’ll find you can reach out to inquire which lab can test for that unique contaminant. Or which contractor did the best pipeline work last year. Who can help you sizing that new pump? You never have to be alone or unsupported in your work – with AWWA NJ, you’re part of a family of over 1,300 committed water folks, who are happy to help you when the need arises.

To that end, AWWA NJ has renewed its policy on new members. What is that policy? Attendance at all section events in the first year of membership for free! Additionally, when new members bring friends or co-workers to such events, they attend free as well. AWWA NJ Section events are places where you can build relationships that will serve you throughout the entire spectrum of challenges and projects that you will tackle in your career. The bigger and more diverse group of participants we engage and retain, the greater the value of your membership becomes.

So we encourage you to come out and enjoy what the section has to offer! Consider bringing your co-workers, participating in a section committee, or supporting an event through volunteering.

Join AWWA by June 30 and receive a complimentary book!

Patrick Cole is Branch Director at H2M Architects and Engineers, and the Chair of the Membership Services Committee.

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**Know Water Know More**

Want to know more about water?

Join AWWA by June 30 and receive a complimentary publication!

Choose one of the following titles:

- **The Chlorine Revolution: Water Disinfection and the Fight to Save Lives** (promo code Q2BK1 at checkout) — a $31 value!
- **Water Operator Certification Study Guide, Sixth Edition** (promo code Q2BK3 at checkout) — a $97 value!
American Water Works Association

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Contact Information

Name  ☐ Mr.  ☐ Ms.  ☐ Mrs.  ☐ Dr.

Title

Company

Address  ☐ Home  ☐ Business

City

State/Province  ZIP/Postal Code  Country

Phone

Email

Is your company a member of AWWA?  ☐ Yes  ☐ No

Company Member Number (if known)

Were you referred by an AWWA member?  ☐ Yes  ☐ No

Referring Name

Annual Dues (A1)

☐ Individual Active  $209
    An individual, such as a water utility employee, municipal official, public health professional, engineer, scientist, educator, consultant, or other person interested in or serving in the field of water supply. (O2)

☐ Young Professional  $126
    A special discount on first-year dues for individuals interested in or serving in the field of water supply, who are age 35 or younger. (YP2016)

☐ Operations/Administrative  $86
    An individual employed in any operating or administrative position by a water utility with 1,000 or fewer service connections or any employee below the supervisory level in a utility with more than 1,000 service connections. (O6)

☐ Student  $20
    A student enrolled in a minimum of nine credit hours (or the equivalent thereof) at an accredited institution. (14)

Additional Sections (A2)

In addition to your primary Section, you may join other AWWA Sections. There is a $33 multi-section fee, plus the assessment fee for the other Sections as appropriate. Please call 1.800.926.7337 for more information.

Payment

Annual Dues (A1)  $________________________

Additional Sections* (A2)  $________________________

*if applicable  Total  $________________________

Payment Method

☐ Check enclosed
    (make payable to AWWA, US currency only, US bank only)

☐ American Express  ☐ MasterCard  ☐ Discover  ☐ Visa

Card Holder Name

Card Number

Expiration Date

Your membership will be activated when payment is received.

By joining AWWA, you grant the association, through implied consent, authorization to send you commercial electronic messages. Your communication preferences can be updated at any time at www.awwa.org under “My Account.”

Signature  Date

3 Ways to Join

1. Apply online at www.awwa.org/join

2. Fax completed application to 303.347.0804

3. Mail completed application to
    AWWA Customer Service
    6666 West Quincy Avenue
    Denver, CO 80235-3098

MORE
Tell Us About Yourself  All applicants must complete this section.

What one business activity best describes your company?  
(Please check only one)

☐ A  Public Water Supply Utility—Municipally Owned
☐ B  Public Water Supply Utility—Investor Owned
☐ C  Government—Federal, State, Local
☐ D  Consulting Firm
☐ E  Contractor
☐ F  Private Industrial System or Water Wholesaler
☐ G  Manufacturer of Equipment & Supplies (including representatives)
☐ H  Distributor of Equipment & Supplies (including representatives)
☐ I  Educational Institutions (faculty & students), Libraries
     and other related organizations
☐ J  Fully Retired
☐ K  Research Lab
☐ L  Other allied to the field (please specify) ______________________

What one category best describes your job title?  
(Please check only one)

☐ A  Executive (General Manager, Commissioner, Board Member,
     City Manager, Municipal Supt., Mayor, President, Vice President, Owner,
     Partner, Director, etc.)
☐ B  Management/Non-Engineering (Division Head, Section Head, Manager,
     Dept. Head, Comptroller, etc.)
☐ C  Design and Engineering/Both Managerial and Non-Managerial
     (Chief Engineer, Civil Engineer, Mechanical Engineer, Elect. Engineer,
     Environmental Engineer, Planning Manager, Field Engineer, System
     Designer, etc.)
☐ D  Scientific/Non-Managerial (Chemist, Biologist, Biophysicist, Researcher,
     Analyst, etc.)
☐ E  Purchasing (Purchasing Agent, Procurement Specialist, Buyer, etc.)
☐ F  Operations (Foreman, Operator, Maintenance Crewman, Service
     Representative, etc.)
☐ G  Marketing & Sales/Non-Managerial (Market Analyst, Marketing
     Representative, Salesperson, Sales Representative, etc.)
☐ H  Professorial (Educator, Teacher, etc.)
☐ L  Other (please specify) _____________________________________

What one category best describes your field served/principal activity?  
(Please check only one)

☐ 1  Both Water Supply & Wastewater
☐ 2  Water Supply Only
☐ 3  Wastewater Only
☐ 4  Other

What areas of the water and wastewater industry are of current interest to you?  
(Please check all that apply)

☐ Asset Management
☐ Backflow/Cross Connection
☐ Climate Change
☐ Conservation/efficiency
☐ Customer Service
☐ Desalination
☐ Design/Construction
☐ Distribution/Plant Ops.
☐ Drought
☐ Emergency Preparedness/Security
☐ Groundwater
☐ Laboratory
☐ Membrane Treatment
☐ Public Health
☐ Public Info./Communications
☐ Regulatory Issues
☐ Reuse
☐ Small Systems
☐ Stormwater
☐ Training/Career Development
☐ Utility Management
☐ Wastewater
☐ Water Loss
☐ Water Quality/Treatment
☐ Water Research
☐ Water Resources/Planning
☐ Workforce Strategies
☐ Young Professionals

Gender   ☐ Male   ☐ Female  (Optional)

Birth Year  (Optional)

Dues and Section assessment rates valid through December 31, 2016. Dues are not deductible as charitable contributions for income tax purposes. The following is for USPS periodical mailing requirements only. In some AWWA Sections, a portion of the Section allotment equal to 50% or more of the domestic subscription rate charged for the Section periodical will be allocated toward a subscription to that periodical. Allocation for each publication recipient authorized—Journal - American Water Works Association—$50; Opflow—$16. Members with APO/FPO addresses will receive e-periodicals only. Print periodicals may be purchased for an additional fee. NOTE: Members’ phone numbers and email addresses are protected under AWWA’s Privacy Policy.
Have an Idea for Research?

Let us know and we will help get it to the Water Research Foundation. Just fill out this short form and e-mail it to the section manager, mona@AWWANJ.org. A member of the Research and Technical Transfer Committee will contact you for more details.

Name ____________________________ Name ____________________________

Phone Number ____________________________ Phone Number ____________________________

E-mail Address ____________________________ E-mail Address ____________________________

Issue/Research Idea

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May someone from the Research and Technical Transfer Committee contact you? ☐ Yes ☐ No

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May someone from the Research and Technical Transfer Committee contact you? ☐ Yes ☐ No

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**Pipeline Editor and Public Information Co-Chair**
Brian M. Applegate, EIT
*Mott MacDonald*
Water Division
111 Wood Avenue South
Iselin, NJ 08830-4112
Tel: 973-379-8742
Fax: 973-376-1072
brian.applegate@mottmac.com

For address corrections please contact
AWWA Customer Service at:
6666 W. Quincy Avenue
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Email: custsvc@awwa.org

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Marisah Potalesky – Passiac Valley Water Commission

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