

## LETTER FROM THE CHAIR *By Carol T. Walczyk*

One of the many things I have learned during the first half of my term as Chair of the New Jersey Section is that while the word “Chair” implies sitting, it really involves a lot of walking. So far, I’ve logged 19 miles at our Annual Conference in Atlantic City in March, 19 miles at the AWWA “Water Matters” Fly-In in Washington D.C. in April, and 23 miles at ACE14 in Boston in June. Those seem like big numbers until I consider that over 1 billion people in the developing world must walk an average of 3.5 miles every day of the year in order to obtain clean water.

AWWA was built upon the need to educate, communicate, and contribute to the resources that are needed to bring safe drinking water to as many people as possible.



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## Updates from Student Affairs Committee

*By Sophia Heng*

Students of the NJIT AWWA Chapter kicked off the 2014-2015 school year at their annual student organizations fair. The sky blue “Future H2O” t-shirts and AWWA NJ branded reusable tumblers were among the popular giveaways.



[MORE](#)

## Chemical Feed Systems for Water and Wastewater

*By Frank Falco*

This past July the Education and Professional Development Committee sponsored a seminar on Chemical Feed Systems for Water and Wastewater at the Middlesex Fire Academy in Sayreville.



[MORE](#)

## AWWA Pitches In to Help Clean Up Speedwell Lake

*By Max Huber*

On Saturday, September 27<sup>th</sup> in conjunction with Ms. Kathleen Margiotta of the Whippany Action Committee, the AWWA-NJ Section teamed up with various industry professionals for an area ‘Clean Up’ of the Speedwell Lake district in Morristown, NJ.



[MORE](#)

## UPCOMING EVENT

**AWWA NJ INVITES YOU TO THE 80TH ANNUAL CONFERENCE**

March 17 – 19, 2015  
Trump Taj Mahal Hotel & Casino  
Atlantic City, NJ



# Water For People's Summer Recap and Fall Schedule

By Erika Vardaxis



AWWA NJ and Water For People hosted the 5<sup>th</sup> Annual "Water For People" night at the Trenton Thunder Waterfront Park on Friday, July 25. It was a beautiful night and several AWWA members and their families were in attendance to see the 6 to 1 victory by the Binghamton Mets over the AA Yankees Affiliate, the Trenton Thunder. Those who participated in the event helped to raise almost \$2,800 for Water

For People, a huge success! Special thanks to our:

- **Grand Slam Sponsor:** Montana Construction
- **Home Run Sponsors:** Aqua New Jersey, New Jersey American Water, Raritan Pipe and Supply, CDM Smith, United Water, Hazen & Sawyer, AECOM, and Harper Haines Fluid Control, Inc.
- **Triple Sponsor:** Middlesex Water Company, Howard J. Woods Jr. & Associates, LLC, US Pipe & Foundry Co., and Complete Control Services, Inc.

Water for People also attended the AWWA NJ Fall Conference that was held on October 2, 2014. The committee was able to raise \$100 by auctioning off an impressive wine basket of a range of wines from the area.

The 9<sup>th</sup> Annual Wine into Water event was held on October 17<sup>th</sup> at Laurita Winery in New Egypt, NJ. This event sold out in record time this year thanks to all of our dedicated sponsors! We look forward to seeing everyone for a great event. Look for a recap of the event in the next issue of *Pipeline!*

It also isn't too late to support Team Water For People at the November 2<sup>nd</sup> TCS New York City Marathon. Team Water For People will be running 26.2 miles and all five boroughs of New York in the TCS New York City Marathon. Eight (8) volunteers have agreed to run for Team Water For People and commit to raising a minimum of \$2,500. You can support

Team Water For People and help them achieve their fundraising goals long after the event and make a change globally for safe and sanitary water from the following link: <https://www.crowdrise.com/WaterForPeopleNYC2014/fundraiser/waterforpeoplenyc1>



Last year at the AWWA NJ Annual Conference, Water For People made a goal to raise over \$50,000 and with the continued success of this event and others, we surpassed this. In fact, we became one of the top three fundraising committees in the nation for Water For People and have been credited with raising approximately \$74,000. We have our sights set on the top 2 now and we need to keep up the good work to get there.

In addition, it is not too early to start thinking about the annual conference in March 2015. Water for People will be hosting its annual Drop in the Bucket Auction. If you would like to participate and donate an item, please contact Jessica Kretch at [kretchja@cdmsmith.com](mailto:kretchja@cdmsmith.com).

The Water For People Committee is always looking for new members to assist with planning events. If you are interested in volunteering or finding out more about these events, please contact Carmen Tierno at [carmen.tierno@amwater.com](mailto:carmen.tierno@amwater.com) or visit the AWWA NJ Section website at [www.njawwa.org](http://www.njawwa.org).

*Erika Vardaxis is an Engineering Project Manager for New Jersey American Water and the Secretary of the Water For People Committee.*

## AWWA Announces Winners of ACE14 Fresh Ideas Poster Competition

### Winners from Pennsylvania, Minnesota, New Jersey Sections

AWWA announced winners of ACE14 Fresh Ideas Poster Competition. The NJ Section is proud to say the Joe Goodwill, who represented the Section, placed third in the competition. Congrats to Joe! Below is the office press release from AWWA National:

(DENVER) – The **American Water Works Association** today announced the winners of its annual student poster competition. The competition took place during AWWA's Annual Conference and Exposition (**ACE14**) in Boston June 8-12.

The first place winner is Dan Cannistraci for his poster entitled "Development of a FISH-to-PCR Essay for Quantification and Genotyping of *Cryptosporidium* Spp. in Environmental

Samples." Cannistraci represented AWWA's Pennsylvania Section in this competition.

The second place winner is Kevin Young of Moorhead Public Service for his poster entitled "Prevention of Bromate Formation in the Moorhead Water Treatment Plant". Young represented AWWA's Minnesota Section in this competition.

The third place winner is Joe Goodwill of the University of Massachusetts for his poster entitled "Emerging Drinking Water Technologies". Goodwill represented AWWA's New Jersey Section in this competition.

The Fresh Ideas Poster Competition was one of several special events at ACE14 geared toward AWWA members who are students and young professionals of AWWA.

# Retired Professionals Committee is Seeking Volunteers

By John Civardi

Did you know that the Section has a Retired Professionals (RP) Committee? The RP Committee is devoted to sharing the wealth of knowledge from retired members with the Section. Over the past 40 years the drinking water industry has changed significantly and the RPs not only witnessed these changes but were instrumental in implementing projects to improve the delivery of drinking water.

The RP Committee has received requests from the YP Committee to develop forums to share their information to the next generation of water professionals. We are seeking feedback from members of the section so that the RP Committee can improve knowledge sharing. The RP Committee is also seeking additional members, and if you know of an RP or an upcoming RP please email John Civardi at [john.civardi@hatchmott.com](mailto:john.civardi@hatchmott.com). Potential members can be from suppliers, academia, municipal and private water companies and regulators.

*John Civardi is a Vice President at Hatch Mott MacDonald and Chair of the Retired Professionals Committee.*

## Below are some of the upcoming goals of the Committee:

1. Produce annual installments of the Living History Project
2. Develop a program to encourage and foster fellowship among the retired members
3. Develop annual event for retired members
4. Contribute a column for each edition of the *Pipeline* entitled *And then there was the time...*
5. Work with the Section Young Professionals Committee to advance their program
6. Work with the Section Education Committee to enhance their programs including operator training
7. Provide a forum for recording the history of the Section
8. Provide forum for book discussion of great water books building on the information provided by Gary Westerhoff

## Letter from the Chair *(continued from page 1)*

As our knowledge base has grown, so has our responsibility to reach out to those who do not have the benefit of our resources, expertise and experience, and to look towards developing the future of our industry. Toward that end, philanthropy has become an increasing part of our mission on both the Association and Section levels.

AWWA recently announced its Philanthropy Initiative, which will include fundraising for scholarships, participation in AWWA conferences, and young professionals' involvement in AWWA programs. As part of the same initiative, AWWA has entered into an alliance with ASCE and Engineers Without Borders to form the Community Engineering Corps, which pools volunteer resources to provide technical expertise to underserved communities in the United States. AWWA is also expanding internationally, beginning with opening an office in India.

Our Section has a very active Water for People committee, which has raised over \$350,000 since 2001 to help people in developing countries build and maintain their own reliable safe water systems. Our Student Affairs committee maintains a scholarship program, and is reaching out to schools to educate children about the importance of water as both a

vital resource and a potential future career. We have collected canned food and cash donations for the Community Food Bank at our Annual Conference, and our H2O – Help 2 Offer – program organizes volunteers for community improvement projects. We have also supported the efforts of other organizations, including the NJ Engineers Without Borders Walk for Water in September, and we recently executed an agreement with AWWA to deliver small system training under an EPA grant.

AWWA writes, "Throughout its history, AWWA has continued to be in the forefront of changing public health practices to eradicate water-borne disease. However, AWWA cannot rest on past successes, but must look forward to tomorrow's need." There are many people and communities that can benefit from what you have to offer. My challenge to each of you is to get involved, in one of the programs described above or in one of the many other committees and programs of AWWA NJ and AWWA. We need your help! Please contact me at [carol.walczyk@hatchmott.com](mailto:carol.walczyk@hatchmott.com) if you have "H2O."

*Carol T. Walczyk is a Vice President at Hatch Mott MacDonald and Chair of the NJ Section.*

# One Valve at a Time

By Alan S. Dillon

The community of waterworks professionals has a right to feel a great deal of pride regarding the job they do every day. They have been vested with the responsibility for maintaining the multigenerational assets which are at the core of any sustainable community. Their relative anonymity highlights their professionalism and quiet competency.

As part of their stewardship of public community water systems, water system personnel need to develop a system-wide asset management plan. Implementing such a program helps assure the efficient long term viability of our utilities. The New Jersey Department of Environmental Protection has posted on its website a document titled “Asset Management – Guidance and Best Practices.” It posits that the five major, generally recognized components of a utility asset management plan include:

1. Performing an inventory and condition assessment of the system’s assets,
2. Defining level of service goals,
3. Identifying critical assets,
4. Establishing life cycle costs, and
5. Developing a long-term funding strategy.

While most water utility personnel understand asset management, some just don’t know how to get started. In order to assess difficult underground assets, a suggestion is to begin with a valve exercise program.

Just getting started can be the biggest hurdle. Water systems may look at the entire system and number of valves with an overwhelming sense that this is an impossible task to accomplish. The idea is to start one valve at a time. For those water systems which do not have the manpower or equipment to conduct a valve exercise program, contractor services are available.

The National Environmental Services Center has published a Tech Brief on how to conduct a valve exercise program. Knowing where valves are will help a utility locate the rest of the distribution system. Exercising those valves can provide an initial condition assessment of the distribution system. In addition, operational valves are essential to help isolate a water main break and significantly reduce repair costs in time of emergency.

Getting started begins with locating the valves and prioritizing based on criticality. High priority locations can be determined based on critical customers (e.g. hospitals), amount of flow, age of the valve, and/or proximity to a busy intersection. The leading consideration is the impact of failure.

According to the Tech Brief, the main components of a valve exercise program are:

1. **Find and document the valve’s location.** By noting the precise location with global positioning system (GPS) equipment, you won’t lose a valve once it’s found.
2. **Operate the valve.** Exercising the valve is operating the valve at least one full cycle until the valve operates freely with little resistance. This may take several full cycles.
3. **Keep and maintain detailed records for each valve.** This includes mapping locations on as-built drawings or road maps and maintaining

both electronic and hard copies. The availability of portable electronic devices, such as iPads, makes field record keeping and picture taking much easier.

4. **Schedule and perform needed repairs.** Often, valve boxes are out of alignment, so much so that a key (a steel handle used for manual turning that come in multiple lengths) cannot get on the valve. Valves are sometimes broken during the exercising program because they have not previously been used. Fixing the broken valves in a timely manner is very important.

In addition, the New Jersey Board of Public Utilities regulations require that each “water and wastewater utility shall inspect each valve in the utility’s system to determine how easy or difficult it is to reach the valve to operate it, and the valve’s operating condition.” For each valve that is 12 or more inches in diameter, inspections shall occur at least once every two years, and all other valve inspections shall occur at least once every four years. At a minimum, each valve inspection shall include:

- a) The clearing of the area around the valve so as to ensure full access to the valve for operating purposes;
- b) The cleaning out of the valve; and
- c) The dynamic testing of the valve, by opening and then closing the valve for either of the following number of turns:
  - i. That number of turns recommended by the valve manufacturer to constitute a credible test; or
  - ii. That number of turns which constitute 15 percent of the total number of turns necessary to completely open or completely close the valve.

The Tech Brief also provides a list of useful tools to conduct a valve exercise program. They include:

- A utility vacuum cleaner for cleaning accumulated sediment from the gate valve box. Some models are mounted on a trailer or can be installed in the back of a pick-up truck.
- Valve keys or valve box keys for all sizes in your distribution system and extension kits if needed.
- Valve exerciser tool. There are portable, truck-mounted, or trailer-mounted exercising tools.
- A good metal detector to find buried valves.

Water utilities have a responsibility to affect an asset management program on their buried assets. They can begin doing so today. Let’s start one valve at a time.

A substantial portion of this article was taken from and details regarding conducting a valve exercise program are found on line at the West Virginia University National Environmental Services Center Website Tech Brief Section:

[www.nesc.wvu.edu/pdf/dw/publications/ontap/2009\\_tb/valve\\_exercising\\_DWFSOM97.pdf](http://www.nesc.wvu.edu/pdf/dw/publications/ontap/2009_tb/valve_exercising_DWFSOM97.pdf)

*Alan S. Dillon is the Section Chief of Water Supply and Geoscience Division of the NJDEP and a member of the section.*

# The Infrastructure Management Committee Aims to Promote System Maintenance

By Neil Goldfine

The Section has embarked on a new program to provide outreach to the residents of New Jersey. One of the goals of the Infrastructure Management Committee is to promote asset management principles by educating the membership and external groups on the need for effective asset management programs for the maintenance and preservation of the State's water infrastructure.

The Committee has put on seminars and programs at the Section Conferences, but most of our efforts to date fall into one of two categories: preaching to the choir or trying to convince public officials to spend money on assets that no one sees. The results are self-evident.

The Committee has sought to find other interested groups that have a stake in advancing sound infrastructure management. As we know, maintaining infrastructure is cheaper in the long run. The Committee is looking for an

audience of community business leaders and will be reaching out to groups, such as the Rotary and Kiwanis Clubs, to speak at their monthly luncheons. The Committee will provide a Power Point presentation comparing the maintenance a car with maintaining infrastructure to bring the message home.

We are now seeking AWWA members that are willing to make the presentations as well as contact information for local civic organizations that might be interested.

Please contact Neil Goldfine at [neil.goldfine@comcast.net](mailto:neil.goldfine@comcast.net) to volunteer. Remember to put down the area of the state that you would be most available. If you are suggesting a civic group, please provide their contact information.

## Chemical Feed Systems for Water and Wastewater *(continued from page 1)*

The seminar featured presentations by industry experts on topics such as:

- The operation and design of chemical feed systems
- Disinfectants and methods of application
- The advantages and disadvantages of various coagulants
- Basics of pH adjustments, Phosphate Technology and Polymers

The presenters shared their real life experiences which generated lively interaction with the audience.

The seminar also featured a hands-on portion. Working pumps and mixers with cut-aways were set up by vendors which allowed attendees the opportunity to see various feed pumps and mixers in action.

The final segment of the seminar included a problem-solving workshop. Attendees were broken up into groups and given problems on calculating chemical feed dosages, troubleshooting chemical feed problems, and diagnosing treatment problems. Each group then presented their answers to the audience. This led to some interesting answers and dialog.

The seminar received positive feedback based on reviews. The Committee plans to build on this concept for future seminars. Ideas for future topics are welcomed and can be submitted to the Education and Professional Development Committee via Linda Wancho (Chairperson) at [linda.wancho@ch2m.com](mailto:linda.wancho@ch2m.com).

*Frank Falco is Director of Production at Middlesex Water Company and Member of the Education and Professional Development Committee.*



## AWWA Pitches In to Help Clean Up Speedwell Lake

*(continued from page 1)*

Over 120 people attended the event and, after donning gloves and grabbing trash bags, went out onto the trails and local roads to collect discarded recyclables along with small and large general trash in the lake area.

Several tables were set up, such as the ones staffed by section member Gigi Diaz, Section Chair Carol Walczyk, and Section Manager Mona Cavalcoli. Anthony Zampella, Jr., National Water Resources Manager with the ISO group, joined with Max Huber and Mike Furrey, of Agra Environmental, on their collection route.

Other groups, such as 'Sustainable Morristown' (a partnership of local businesses entities and groups) and Historic Speedwell Village (directly across Speedwell Avenue from the Lake and the birthplace of the telegraph) set up tables to display information as well. The theme for this year was focused on water protection and water conservation.

*Max Huber is the owner of Agra Environmental & Laboratory Services and Co-Chair of the Licensed Operator Committee.*



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[WWW.NJAWWA.ORG/BOARD](http://WWW.NJAWWA.ORG/BOARD).

# PBS Airs Documentary on the History of “Clean,” Focusing on Water and Wastewater Treatment

By Anthony Tomasello

Have you ever wondered about how the water and wastewater industry has gotten to where it is now? It's no surprise that over the past 150 years there have been monumental advancements that have greatly benefitted societal health and increased life expectancy. But who and what were the driving forces behind these advancements?

PBS recently aired the first installment of their documentary series “How We Got to Now with Steven Johnson.” The series focuses on the history and people behind the innovations and forward-thinking ideas that have shaped modern society. The first segment, entitled “Clean”, focuses on the modernization of the water and wastewater industries and the effects that these industries have had on the rest of the world.

I watched this program the night it aired and was very entertained. The concepts and science presented in the program are intentionally simple to make the program relatable. Education and entertainment are combined quite well, and I think that this program has the power to captivate and intrigue audiences of all ages and backgrounds, not just those in the industry.

I highly recommend the hour long segment to any member in the Section with an interest in the history of drinking water or general history for that matter.

*SPOILER ALERT: You may not want to read the following if you intend to watch the program and do not want any of the show's content beforehand.*

Given all the work that we do to ensure a safe, clean supply of drinking water, I found particularly interesting the dangers associated with tap water less than 150 years ago in major cities. Drawing water from the tap was essentially playing Russian roulette. Chicago, for instance, had recently completed construction of one of the world's first sanitary sewer systems. What they did not realize at the time was that building the sanitary sewer system's outfall near the water supply intake was a bad idea. It was not an uncommon site at the time to have a bath tub filled with dead fish, “cooked” from the discharge of the sanitary sewer system. Chicagoans affectionately referred to this as “chowder.” According to the show, this is one the reasons that beer so popular...it was the safest thing to drink at the time!

*Anthony Tomasello is a Senior Project Engineer at Hatch Mott MacDonald and Chair of the Publications Committee.*

## Updates from Student Affairs Committee *(continued from page 1)*

Following the student organizations fair, the NJIT AWWA student chapter hosted their first meeting of the school year. The executive board, along with Brian Van Nortwick (Student Chapter Professional Liaison) explained the benefits of being involved with AWWA and opportunities that the organization presents in the water industry. Steven Perez (President) stated,

“I was surprised to see more than 20 students at the meeting! They were genuinely interested in the works of the chapter.”

*Sophia Heng is an Engineer at Southeast Morris County Municipal Utilities Authority and Chair of the Student Affairs Committee.*



# Clyde Potts Water Treatment Plant Tour



## Come join AWWA's Student Affairs and Young Professionals Committees for an in depth tour of the Clyde Potts Membrane Filtration Water Treatment Plant

**WHEN:** October 29<sup>th</sup> at 2:30 PM

**WHERE:** Clyde Potts WTP (for GPS, enter 37 Woodland Ave., Brookside, NJ 07926)

**TOUR GUIDE:** Kenneth Crawford, Southeast Morris County MUA Treatment & Pumping Supervisor

**COST:** None



## Happy Hour to follow at HOPS: Craft Beer and Wine Bar in Morristown

**WHEN:** 4:30 PM (pending traffic)

**WHERE:** 14 1/2 Washington Street, Morristown, NJ

**COST:** Appetizers provided by Young Professionals Committee. Drinks will be on an individual's basis and budget. Must be 21+

### TO RSVP...

Tour + Happy Hour: Email Brian at [bvannortwick@h2m.com](mailto:bvannortwick@h2m.com)

Just Happy Hour: Email Jordan at [jordan.spitzerlondon@amwater.com](mailto:jordan.spitzerlondon@amwater.com)

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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](http://www.njawwa.org).



# 2014 AWWA Individual Application



**American Water Works Association**

*Dedicated to the World's Most Important Resource™*

## 2014 Individual Application

Join online: [www.awwa.org/join](http://www.awwa.org/join)

**Mail completed application to:**  
AWWA Customer Service  
6666 West Quincy Avenue  
Denver, CO 80235-3098 USA

**Fax completed application to:**  
303.347.0804  
**Questions? Call Customer Service**  
**at 1.800.926.7337 or 303.794.7711**

### Section 1 Member Information

Mr.  Ms.  Mrs.  Dr.  
Name \_\_\_\_\_  
Title \_\_\_\_\_  
Company Name \_\_\_\_\_  
Is your company a member of AWWA?  Yes  No  
Company Member number (if known) \_\_\_\_\_  
 Home  Business  
Address \_\_\_\_\_  
City \_\_\_\_\_  
State/Province \_\_\_\_\_ ZIP/Postal code \_\_\_\_\_ Country \_\_\_\_\_  
Phone \_\_\_\_\_  
Email \_\_\_\_\_

Were you referred by an AWWA member?  Yes  No  
Referring Member \_\_\_\_\_  
Member # (if known) \_\_\_\_\_

### Section 2 Payment

Annual Dues—Section 3A \$ \_\_\_\_\_  
Section Assessment\*—Section 3B \$ \_\_\_\_\_  
Additional Section Option\*—Section 3C \$ \_\_\_\_\_  
**Total \$ \_\_\_\_\_**

*\*If applicable*

#### Payment Method

Check enclosed  
(make payable to AWWA, US currency only, drawn from a US bank)  
 American Express  MasterCard  
 Discover  Visa

Card Holder Name \_\_\_\_\_  
Card Number \_\_\_\_\_  
Expiration Date \_\_\_\_\_

*Your membership will be activated when payment is received.*

### Section 3A Annual Dues

- Individual Active \$174**  
An individual, such as a water utility employee, municipal official, public health professional, engineer, scientist, educator, consultant, or other person interested or serving in the field of water supply. (02)
- Young Professional \$99**  
A special discount for first-year dues for individuals interested or serving in the field of water supply, who are age 35 or younger, or new to the water industry. (YP2014)
- Operations/Administrative \$72**  
An individual employed in any operating or administrative position by a water utility that has 1,000 or fewer service connections or any employee below the supervisory level in a utility that has more than 1,000 service connections. (06)
- Student \$25**  
A student enrolled in a minimum of nine credit hours (or the equivalent) of accredited classes. (14)

Signature \_\_\_\_\_ Date \_\_\_\_\_  
*By signing this application, you certify that you have selected the appropriate membership category.*

### Section 3B Section Assessments

AWWA has 43 local Sections in North America. You are automatically enrolled in a Section based on your address. Some Sections require additional fees to better serve their local members. The Section assessment is required if your address is located in one of the following areas:

Your State/Province	Individual/ Young Professional	Operations/ Administrative
Alaska, Colorado, Minnesota, Missouri, New Mexico, North Carolina, Ontario, Wyoming	\$9	\$4
Alberta, Arizona, Illinois, Kentucky, Manitoba, Northwest Territories, Saskatchewan, Tennessee, Texas, Wisconsin	\$17	\$7
Alabama, Arkansas, Connecticut, Idaho, Louisiana, Mississippi, New Jersey, New York, Oklahoma, Oregon, Pennsylvania, Utah, Washington	\$26	\$11
Florida, Georgia, Indiana, Iowa, South Carolina	\$35	\$14
California, Maine, Massachusetts, Nevada, New Hampshire, Rhode Island, Vermont	\$70	\$29

### Section 3C Additional Section Options

In addition to your Section membership, you may join other AWWA sections. There is a \$33 multi-section fee, plus the assessment fee for the second section. Please call 1.800.926.7337 for more information.

**MORE**

# 2014 AWWA Individual Application (continued from page 9)

## Section 4 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) \_\_\_\_\_

Gender  Male  Female (Optional)

Birth Year \_\_\_\_\_ (Optional)

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

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

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

- A Executive (General Manager, Commissioner, Board Member, City Manager, Municipal Superintendent, Mayor, President, Vice President, Owner, Partner, Director, etc.)
- B Management/Non-Engineering (Division Head, Section Head, Manager, Department Head, Comptroller, etc.)
- C Design and Engineering/Both Managerial and Non-Managerial (Chief Engineer, Civil, Mechanical, Electrical, Environmental, or Field Engineer, Planning Manager, 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.)
- I Professorial (Educator, Teacher, etc.)
- Z Other (please specify) \_\_\_\_\_

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

- 9 Both Water Supply & Wastewater
- 5 Water Supply Only
- 7 Wastewater Only
- 3 Other

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## 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@njawwa.org](mailto:mona@njawwa.org). A member of the Research and Technical Transfer Committee will contact you for more details.

Name \_\_\_\_\_

Phone Number \_\_\_\_\_

E-mail Address \_\_\_\_\_

Issue/Research Idea \_\_\_\_\_  
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May someone from the Research and Technical Transfer Committee contact you?  Yes  No

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

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