InFlow-Line

The Magazine of the CT Section American Water Works and the Connecticut Water Works Associations Spring 2015



CTAWWA & CWWA

44TH JOINT ANNUAL CONFERENCE

MAY 20-22, 2015

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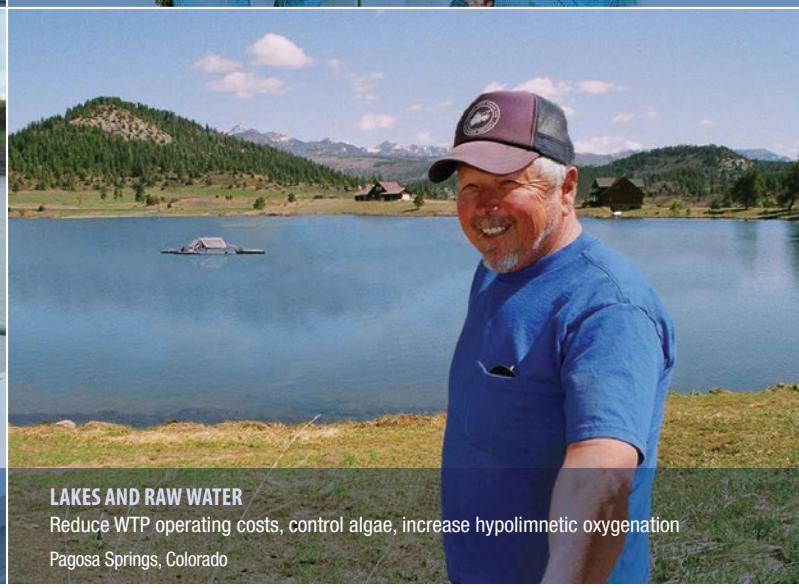
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Volume 10 – Number 1

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Cover photo: Chatham Bars Inn Beach, Chatham, MA. Photo by Kathy Fortin.

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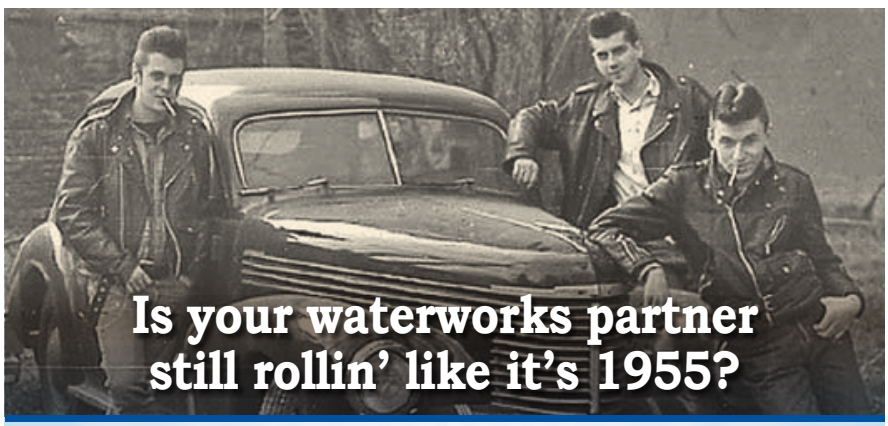
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Thank you for a successful year

I am happy to report the CTAWWA Annual Technical Conference and Vendor Expo (ATCAVE) was a huge success with more than 600 attendees, the highest attendance in the event's 19-year history! There is a tremendous level of effort behind the scenes that goes into creating the program along with coordinating presenters for this event. I would like to thank the Program Committee for all their hard work and dedication in soliciting presentations and putting the program together. Great job! **And to all who volunteered – we could not undertake an event of this magnitude without you! Thank you.**

Do not miss out on the CTAWWA/CWWA 2015 Annual Conference. It will be held at the beautiful Ocean Edge Resort in Brewster, Massachusetts, May 20–22. An excellent program is in place that offers educational resources in addition to networking opportunities. In my opinion, there is no better way to gain industry perspective than by spending time with our peers! (See page 28 for this year's program.)

As the frigid temperatures subside and my term as the Section Chair is winding down, I would like to take this opportunity to thank the Board for all of their support throughout the year. It has been a privilege to serve with all of you! The Section will be left in good hands with the incoming Chair, Steve Rupar. Steve brings a wealth of industry knowledge and a level of professionalism from which the section will undoubtedly benefit! Thank you.

"In my opinion there is no better way to gain industry perspective than by spending time with our peers."

Connecticut Section American Water Works Association Election of Section Officers

Listed below is the proposed 2015–2016 Slate of Officers for the Connecticut Section AWWA:

Chair	One-year term	Steve Rupar
Vice Chair	One-year term	Tom Loto
Past Chair (a)	One-year term	Fred Rogers
Secretary	One-year term	Kathy Fortin
Treasurer	One-year term	TBD
2nd Year Trustee (b)	2nd of a two-year term	Robert Longo
1st Year Trustee	Two-year term	Jennifer Muir
National Director (c)	Three-year term	Dan Lesnieski

(a) Automatic appointment; no vote required
(b) Serving the 2nd of a two-year term; no vote required
(c) Serving the 3rd of a three-year term; no vote required

Article VII and VIII of the Section's by-laws govern the election and nominations process and can be viewed at our website, *www.ctawwa.org* (select 'About Us' and 'Standard Practice Manual'). Any questions may be directed to Kathy Fortin at South Norwalk Electric and Water, 164 Old Boston Road, Wilton, CT 06897, or email at *kfortin@snew.org*.

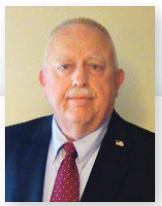
If no further nominations are received by April 20, 2015, Kathy Fortin will cast a ballot for the above slate and issue a notice to the membership via the next available issue of this Section magazine.

Other Board Positions for 2015–2016

Trustee at Large	Gerry McDermott
Trustee at Large	Kate Powell
Administrative & Policy Council Chair	Peter Bocciarelli
Associates Council Chair	Mark Anderson
Education & Public Affairs Council Chair	Rob Page
Technical & Standards Council Chair	Ken Skov
Water Utility Council Chair	Tom Barger

Officers of the Board have voted to approve the Other Board Positions, whose terms shall begin at the annual meeting in May.

Bob Wesneski



Tackling the **important issues**

The Legislative session, which runs January 7 through June 3, is in full swing. Our Legislative Tri Chairs Maureen Westbrook (Connecticut Water), Lori Vitagliano (South Central Connecticut Regional Water Authority), and Vinnie Susco (East Hampton), along with our Executive Director Betsy Gara, have been preparing data and statements and testifying in front of numerous Legislative Committees. Along with the hundreds of conversations with various legislators, this team of dedicated professionals has made a significant impact on numerous bills and revisions that have been proposed by all sorts of special interest groups. All of these efforts have been put forth to fulfill CWWA's primary mission to shape laws and policies affecting the water industry to ensure that we may continue to provide a safe, adequate supply of quality water to our customers at a reasonable cost. Each and every one of you reading this magazine is a part of that industry, whether you are in management, an operator, vendor, supplier or regulator. Look for Betsy's legislative update in this issue.

As another year-end approaches, our Nominating Committee has selected another outstanding slate of Officers, Directors, and Legislative Tri Chairs for the 2015–2016 period. Our current Board approved the slate in February and they will be installed at the May 20, 2015 Annual Meeting of CWWA and the CT Section AWWA. The complete list of Board members can be found in this issue on page 11.

The State Water Plan is progressing, albeit at a slow pace, while the Steering Committee is being selected. Once the Committee is selected, they will gather to develop the 'Vision' for the plan and 'Focus' on some key issues they want direction on before the planning process starts. Among the questions they will consider are: should the state consider the use of Class B water for consumption, will the long-standing water registrations remain or convert to diversion permits; and what is the best structure to provide regulatory oversight for water issues? They will also be looking at the mechanics of stream flow requirements, the need for emergency interconnections between companies, sale of excess water permits, and how new diversions will be decided. These are all critical issues and the process **must be** fair and successful for the consumer, environmentalist, water purveyor, and regulators in each and every instance.



"These are all critical issues and the process must be fair and successful for the consumer, environmentalist, water purveyor, and regulators in each and every instance."

It seems as if my term just started. It will end in May. With such skilled and knowledgeable Board and Legislative Tri Chairs as we have, it was truly easy. All I had to do was get out of their way. Everyone's efforts are coordinated by our Executive Director Betsy Gara. Her advice and suggestions were always accurate, practical, and on target. It has truly been a pleasure to work with her, our Board, and the Tri Chairs this past year.

I would also like to thank the CT Section Officers and Directors and especially Chairman Fred Rogers for the many events they coordinated from ATCAVE, the training classes, the annual meeting, and the many other one-day social events.

In closing, I wanted to thank all of our members and vendors for their financial support and participation in keeping CWWA strong and healthy. In the end, each one of us, along with our children, swim, boat, fish and drink our state's water, which we have all pledged to protect.

NOTICE

The following is the proposed 2015–2016 slate of nominations for directors, officers, and legislative committee chairs approved by CWWA's Board of Directors at its February 27, 2015 meeting:

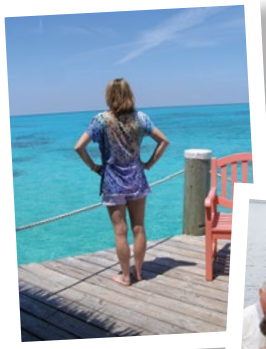
Directors & Officers

NAME	ORGANIZATION	POSITION	TYPE
Stephen Pratt	Metropolitan District	President	(regional)
John Hudak	Regional Water Authority	Vice President	(regional)
Mark Decker	Norwich Public Utilities	Secretary	(municipal)
Michael Elliott	Norwalk 1st	Treasurer	(municipal)
Robert Wesneski	Avon Water	Past President	(private)
Brad Kargl	East Lyme	Director 1	(municipal)
Art O'Neill	Connecticut Water Co.	Director 1	(private)
Steve Cerruto	Torrington	Director 2	(private)
Chris Clark	Mohegan	Director 2	(tribal nation)
John Herlihy	Aquarion Water	Director 3	(private)
Beth Nesteriak	Regional Water Authority	Director 3	(regional)

Legislative Committee Officers

Guy Russo	Middletown Water	Tri-Chair	(municipal)
Lori Vitagliano	Regional Water Authority	Tri-Chair	(regional)
Maureen Westbrook	Connecticut Water Co.	Tri-Chair	(private)

John Hudak, Secretary, CWWA
So. Central Connecticut Regional Water Authority (RWA)
90 Sargent Drive
New Haven, CT 06511
Email: *jhudak@rwater.com*







Kathy Fortin

CTAWWA Board, Secretary from 2002 to the present





Other roles on the Board:

- Council Chair for Education and Public Affairs – 2000
- Served on numerous Section committees: Lab Operations, Chair 1997 and 1998, ATCAVE, Communications, InFlow-Line Editorial Board, Source Water Protection Committee, Website Committee.

Day job:

Laboratory Director, South Norwalk Electric and Water (SNEW) since 1982.

Personal stats:

I may be best known in my role as Section Photographer, where I snap away to capture the memories for everybody from all the conferences and events. I spend time in the Bahamas with my man Paco any chance I get.

Recent accomplishment:

Cleaning up the section membership list... though it seems that task is never really done!

Why volunteer for CTAWWA?

The connections I have made through CTAWWA have been invaluable in reaching out to others in the water industry to solve problems, exchange information and network with my peers.

What would you like to share?

Pictures of course! You know you can find mine on the website right after every Section event.

Favorite water memory:

I love to be part of the 'fun group' and enjoy a good a laugh with my water friends. I have had great experiences at the Section and National AWWA conferences through the years – earning a host of nicknames including Vanna White, Rookie, Roomie, Mrs. Noel Grant, and regrettably, even Dinosaur. I love that there is something for everyone, like bocci and the non-golfers' lunch at the Annual Conference.

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Minimizing Blue-Green Algae *or* CyanoHABs

By Tom Barger and John Hudak, So. Central CT Regional Water Authority

IN AUGUST 2014, a 'do not drink or boil' advisory was issued to public drinking water consumers in the Toledo, Ohio area due to elevated levels of toxins known as microcystins resulting from a cyanobacterial harmful algal bloom (cyanoHAB). The advisory affected nearly 500,000 people served by the Toledo Collins Park Water Treatment Plant located on Lake Erie. At the time, the western basin of Lake Erie was experiencing an intense bloom of a species of cyanobacteria called Microcystis.

Cyanobacteria are photosynthetic bacteria commonly referred to as blue-green algae. In addition to being notorious for producing noxious scums and undesirable drinking water tastes and odors, certain species of cyanobacteria are capable of releasing toxins that can target the liver and other internal organs, central nervous system, and skin of humans and animals. Other commonly identified cyanotoxins include cylindrospermopsins, anatoxins, and saxitoxins.

Favorable conditions for cyanoHABs in lakes and reservoirs include excessive nutrients (especially phosphorus), elevated water temperatures, abundant sunlight, and a stable thermally stratified water column, so these blooms typically occur in the summer. Climate change has been cited as a factor that may promote these conditions and lead to more frequent and intense cyanoHABs in drinking water reservoirs.

Source water protection is a vital tool in minimizing the occurrence of cyanoHABs. Sources of nutrients that promote cyanoHABs include sewage treatment plant discharges, animal feeding operations, agricultural fields, and stormwater runoff. Nutrient loading is largely a function of watershed land cover, with developed watersheds yielding ten times or more phosphorus than forested watersheds. Research has shown that as lake and reservoir phosphorus concentrations increase beyond 10 µg/L, so does the percentage of the phytoplankton population dominated by cyanobacteria.

Recent work funded by the Water Research Foundation suggests that nutrients are a more significant factor than water temperature in promoting cyanoHABs; thus watershed protection measures targeted at controlling nutrients have the potential to mitigate water quality impacts associated with climate change. Other tools available to manage cyanobacterial toxins in raw water include selective depth withdrawals from multi-level intakes, reservoir oxygenation and circulation, and reservoir sediment phosphorus inactivation techniques such as alum applications.

From a regulatory perspective, there are no existing enforceable standards or analytical requirements for cyanotoxins, although many utilities will have water samples analyzed for algae identification and relative concentrations and/or MIB and geosmin in response to customer complaints, decreased filter run times, or both. The World Health Organization (WHO) has issued a provisional standard of 1 microgram per liter for Microcystin-LR, a known harmful cyanotoxin, and several states have established their own standards.

During 2015, the USEPA plans to assist states by issuing advisories specific to cyanotoxins with known health effects: microcystin-LR and cylindrospermopsin. The USEPA also hopes to finalize analytical methods to allow for more precise detection of existing concentrations. The situation may be changing more rapidly as efforts to provide guidance and recommended standards relative to the presence of cyanotoxins have been introduced in the United States Congress.

The Drinking Water Protection Act has already been passed in the House of Representatives and a second bill by the same name has been introduced in the Senate. These bills would require the development of a strategic plan to assess and manage the risk associated with cyanotoxins within 90 days. Specific requirements would include the following components:

- Evaluate human health risks posed by cyanotoxin-contaminated drinking water.
- Publish a comprehensive list of cyanotoxins determined to be harmful to human health when present in drinking water; summarize known health effect impacts; and determine whether to publish health advisories or monitoring guidance.
- Recommend feasible treatment options.

The growth of algae and the concerns they pose are nothing new to the water industry; however, the recent attention being given to them is providing guidance with regard to the establishment of specific species of concern and the relative concentration at which new regulations may be implemented.



Committee Spotlight

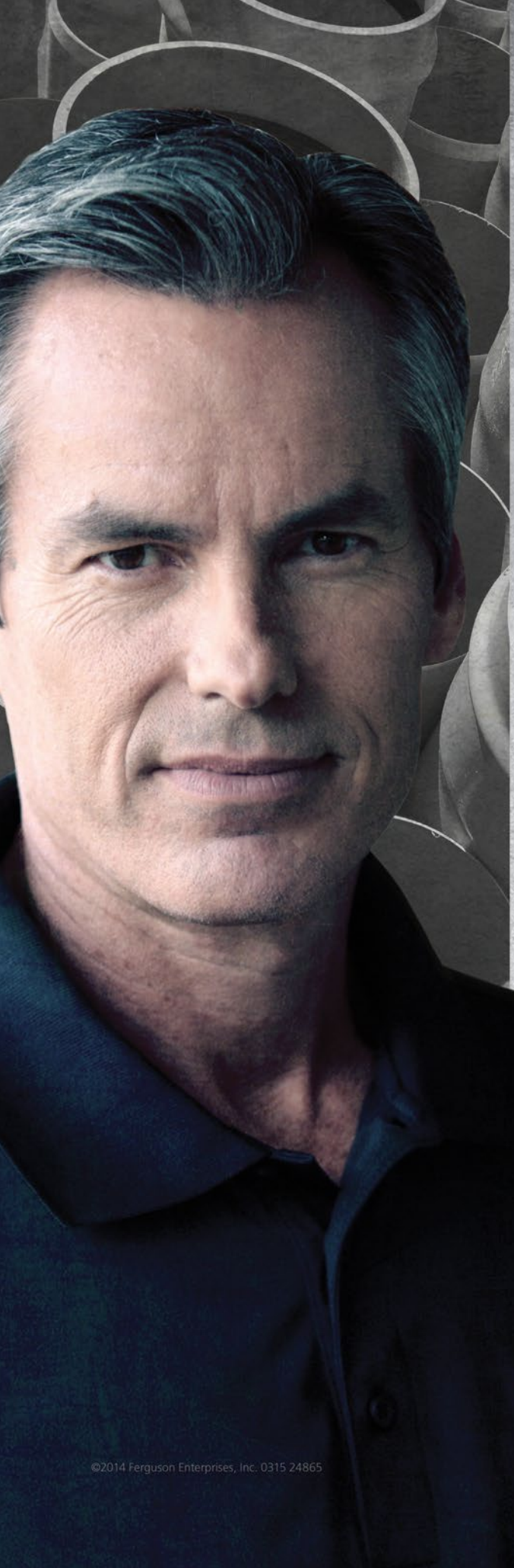
Residuals Committee

The CT Section AWWA Residuals Committee has been focused on various permit issues before the state Department of Energy & Environmental Protection (DEEP). Jim Creighton of DEEP updated members on the general permits for water residuals and beneficial use of residuals during his presentation at ATCAVE. He noted that the following permits were extended one year to March 29, 2016: 1) Water Treatment Wastewater General Permit; 2) Hydrostatic General Permit; 3) Groundwater Remediation General Permit; 4) Non-Contact Cooling Water General Permit. Jim also mentioned that the draft Comprehensive Permit will not be issued for at least another two months but that DEEP will consider the suggestions provided by the Residuals Committee.

In addition, at DEEP's request, the Residuals Committee issued a Sewer Discharge Survey to members and tabulated the results. Surveys were received for 19 surface water treatment plants and 99 groundwater treatment facilities. The survey was conducted to determine how many utilities would be affected by the MISC General Permit.

The Residuals Committee is also interested in pursuing a Beneficial Reuse Study to determine if water residuals can reduce phosphorus from stormwater runoff. DEEP is attempting to reduce phosphorus loading to surface waters in CT by reducing phosphorus limits for Wastewater Treatment Plants. However, the largest source of phosphorus is from runoff. Other states are spreading water treatment residuals around potential sources of phosphorus such as farms, chicken coops, and pig pens to reduce phosphorus loading. If your water utility is interested in participating in this study and assisting in funding the study, please contact Paul Malmrose.





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ATCAVE 2015



Chris Hodgson and Fred Rogers



Technical session

Photos by Kathy Fortin

RECAP

Crowne Plaza, Cromwell
Tuesday, February 24, 2015

Back at our old venue, Crowne Plaza Hartford in Cromwell, 70 plus vendors displaying the latest technology; expanded educational programs for large and small systems; Fresh Ideas poster contest; DPH poster contest; students looking at the water industry as a career; Water For People raffles; national AWWA membership booth; and thankfully, a day free from snow – all sums up ATCAVE 2015.

Seventy plus vendors participated in the show, filling up all available spaces and then some. Vendors networked at the reception the night before the show and enjoyed a breakfast the morning of set-up.

Full-day sessions, with a mix and match option, were offered in Water Quality and Treatment, Distribution Operations, and Management.

The program committee, co-chaired by Connecticut Water Company's Gerry McDermott and Hazen and Sawyer's Scott Bonett, offered a vast selection of topics and excellent speakers.

ATCAVE had over 600 attendees in 2015, the highest attendance in the event's 19-year history! Yes that is correct – 19 years, seems just like yesterday...

The ever-popular "On the Dot" game coordinated by former section chair Marcey Munoz, had a wide variety of prizes offered by the vendors. Many attendees participated in the successful game.

"The Connecticut Section is appreciative of the Drinking Water Section's longstanding commitment to ATCAVE. Our special thanks to Lori Mathieu and the entire staff of the Drinking Water Division for their program, insight and support," said Fred Rogers, Chair. "We look forward to planning with them for ATCAVE 2016."

Amy Busko, a Project Manager in the Capital Planning and Delivery Department at South Central Connecticut Regional Water Authority, presented a Fresh Ideas poster titled 'Streamlining Residuals Management.' As the winner of this year's Fresh Ideas poster contest, she will travel to ACE 2015 courtesy of the Section to present nationally. Congratulations to Amy, and thanks to the competition judges Mark Anderson, Dan Lesnieski, and Gerald Reginatto!

Water For People held a successful raffle at their booth. We are very grateful to our vendors including the Section Enhancers, speakers, and attendees.

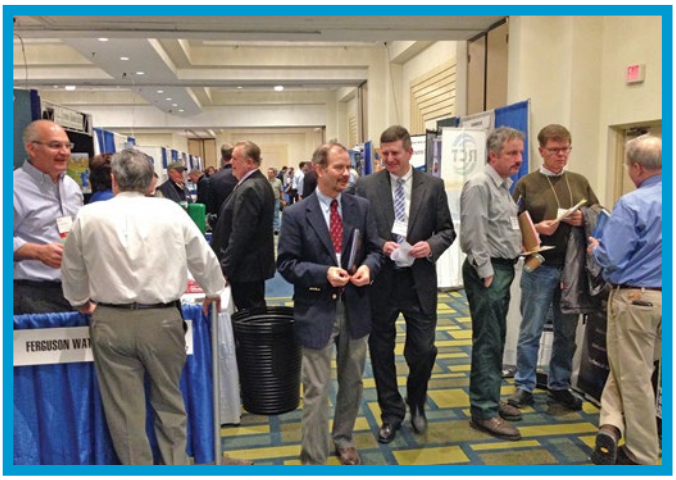
CONFERENCE AT-A-GLANCE



Tiffany Lufkin, YP Co-Chair, with Amy Busko, winner of this year's Fresh Ideas poster contest



CTDPH poster contest



Networking at the Vendor Expo



Section Enhancer – Heitkamp, Inc.



Technical session



Section Enhancer – The Stephen B. Church Company

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Chris Hodgson – On the Dot drawing



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The ATCAVE committee thanks the following companies that contributed prizes to the 'On the Dot' game at the recent Expo.

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Section Enhancer – Chris Shea, Aqua Solutions, Inc.



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CWWA Legislative Update

By Betsy Gara

The state legislature is in full swing and a number of bills affecting the water industry are under consideration.

CWWA requested the introduction of several bills to address issues or concerns raised by members at the Legislative Planning meeting held in November, including the following.

Virtual Net Metering and Water Companies

Two bills introduced this session would authorize water companies to be able to utilize virtual net metering to improve energy efficiency and environmental sustainability. SB-1079 and SB-1049 recognize that energy is one of the largest costs associated with the treatment and delivery of water. Energy is embedded in all stages of the water supply and treatment cycle: pumping, treatment, distribution, and storage. However, under current law, although municipal water and sewer departments are eligible to utilize virtual net metering to share the billing credit among their electric accounts, regional water authorities, metropolitan corporations, and private water companies are not. Given the considerable benefits to the state, the environment, and water utility customers in reducing energy costs and consumption, authorizing all water utilities to utilize virtual net metering is an important public policy goal.

Water Revenue Adjustment Charges

HB-6984 provides for a more streamlined and cost-effective regulatory process by eliminating the restriction on the duration of the Water Revenue Adjustment charge authorized by the Public Utilities Regulatory Authority (PURA) without a rate case filing. Public Act 13-78 authorized the private water utilities to use a Water Revenue Adjustment (WRA) charge to promote water conservation goals and ensure that water utilities do not over-collect or under-collect the revenues approved at the time of the company's last general rate proceeding. Current law limits the duration of Water Revenue Adjustment charges authorized to six years following the last general rate case.

Formula for Reimbursing Costs Under the 471 Program

SB-865 addresses inequities in the current formula for funding the installation of water mains to provide potable water in areas impacted by contamination. In these cases, public water suppliers often work with municipalities to install water systems that will address the current and future water supply needs of the affected residents and businesses. Oftentimes, the area would benefit from the installation of water systems that not only have the capacity to meet the needs of the affected residents and businesses, but also have the capacity to provide water supplies for fire flow and economic development projects. Unfortunately, DEEP's potable drinking water program disallows significant construction costs when the installed water main is larger than the minimum needed to serve the contaminated properties. SB–865 would allow for the installation of a larger water main without the built-in penalties that are inherent in the current DEEP funding formula.

Service Pipes that Cross Intervening Properties

HB-6994 is intended to simplify the process for authorizing installation of water service pipes that cross intervening properties. Simplifying the process will reduce agency costs, as well as improve the ability of water



companies to serve their customers. Under current law, in order for a service pipe that crosses intervening properties to be installed, a utility or property owner must submit a written request to PURA. Each such request is considered as a separate docketed item at PURA, involving a formal proceeding and action by the commissioners to approve. The decisions are based on whether the applicant satisfies the criteria in the current regulations. The bill would codify the requirements but eliminate the need for a docket by allowing the water company to approve such requests and notify the department.

Community Water Systems

In addition, two bills are pending before the legislature to address issues regarding small community water systems.

Small community water systems include homeowner associations, condo associations, senior housing complexes, mobile homes, and other developments where providing water is not the primary function of the owner(s). Not surprisingly, in Connecticut and other states throughout the United States, these small water systems often lack the financial, technical, and managerial capacity to adequately maintain the systems, make necessary system improvements, and comply with rigorous state and federal public health and environmental laws.

When community water systems fail to meet their obligations to provide public water supplies, there is a process under current Connecticut law whereby regulators can order another water company to acquire the system. In addition, some community water systems, recognizing that their revenues and/or infrastructure are inadequate, may pursue a voluntary acquisition agreement with a water company. The acquisition agreement is subject to review and approval by state regulators.

Public Act 13-298 required the Public Utilities Regulatory Authority (PURA) to study the financial capacity and system viability of small community water systems that are not required to submit water supply plans. Under current law, water systems serving more than 1,000 customers are required to develop and submit comprehensive water supply plans to state regulators.

The act required the study to examine: (1) potential factors affecting the costs to maintain and operate small systems safely and effectively and (2) potential benefits of creating a financial assistance account to help them defray the costs of essential infrastructure improvements. PURA contracted with the consulting firm, the Townsley Consulting Group, LLC, to undertake the study.

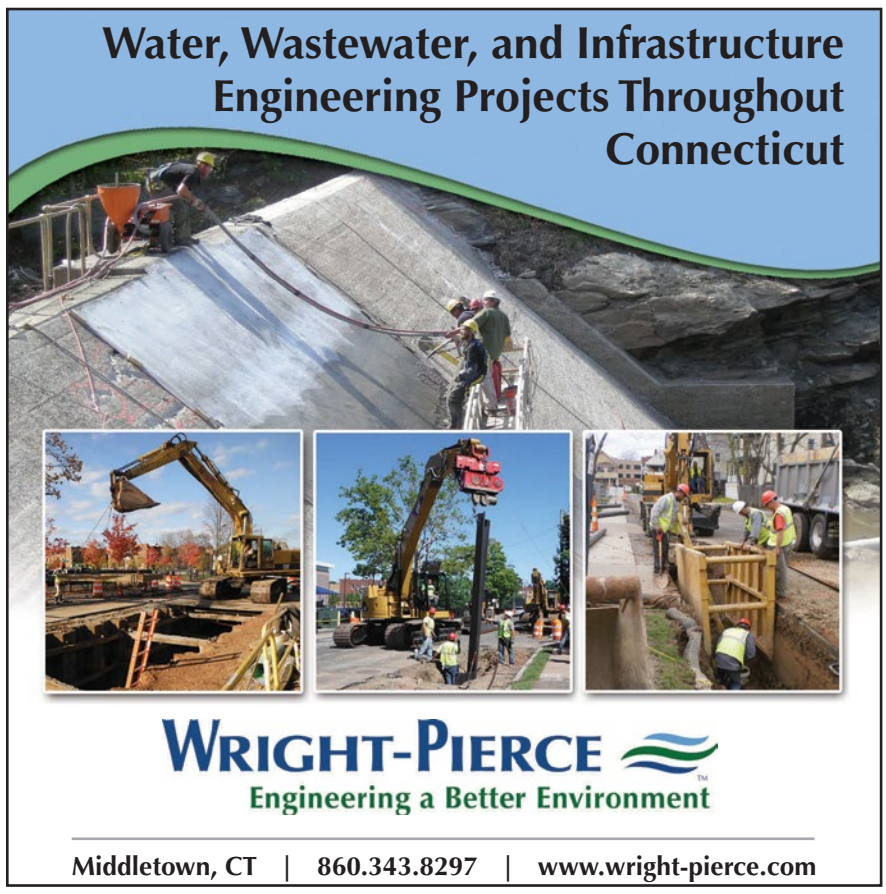
The report included several key findings on community water systems including: 1) There are 358 small community water systems that serve a population of less than 1,000 and are not owned by larger water companies; 2) The capital needs of the community water systems could approach $50 million over the next five years; and 3) Approximately 21 of the Community Water Systems are in poor condition, unable to provide adequate service, and are in need of substantial system improvements.

In addition, the report recognized that it would be beneficial in many cases for these small systems to be acquired, either voluntarily or involuntarily, to ensure that customers receive adequate public water supply service. However, the report noted that the process for acquisition of water systems, including the voluntary acquisitions process, is inordinately complex and imposes significant costs on water utilities and their customers and effectively delays the resolution of issues affecting the quality of drinking water for customers.

The study concludes that "if the consolidation of community water systems through acquisition is to reach its potential for 'voluntary' acquisitions, 'streamlining' of the PURA and DPH processes needs to be implemented."

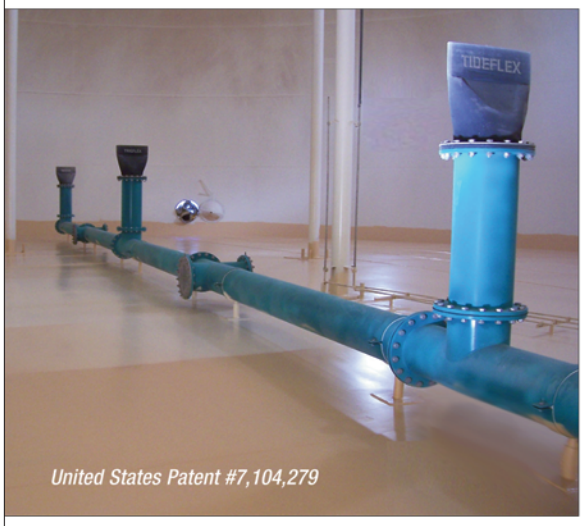
The state Department of Public Health requested the introduction of a bill, HB-6954, to streamline the processes for acquisition of water systems. CWWA is currently working with DPH, PURA, and lawmakers to ensure that the language does not create any unintended consequences.

Another bill, SB-569, was introduced by Sen. Bob Duff (D-Norwalk) to follow up on the work of the Townsley Consulting Group. The bill calls for greater oversight to ensure that new and existing small community water systems have adequate financial and managerial capacity to meet water supply needs. It also requires PURA to establish a cost-based, rate-setting policy for small community water systems to be established in the future.



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Water Matters!

CT Section AWWA Participates in Fly-In

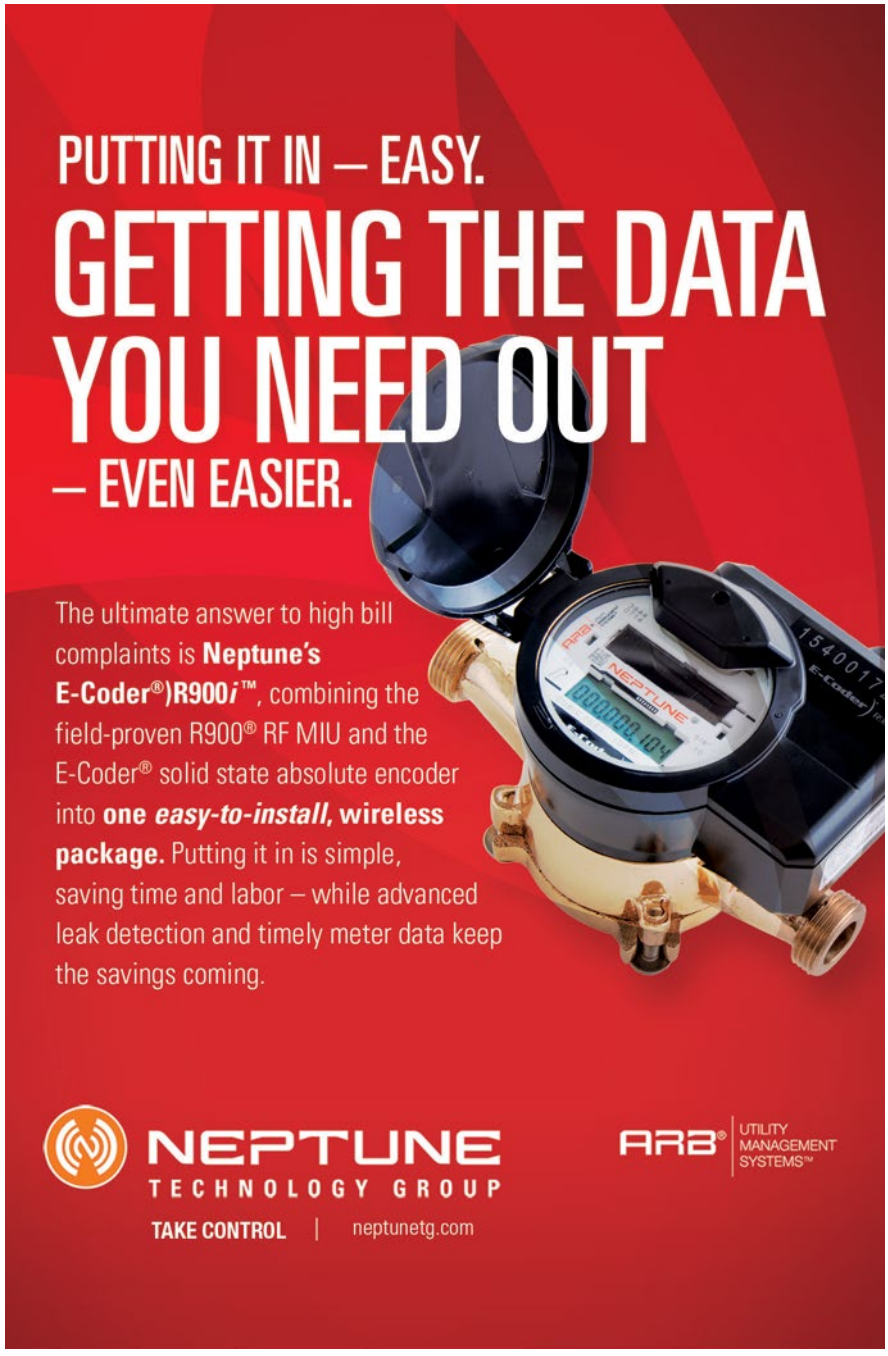
John Herlihy of Aquarion Water Company and Tom Barger of South Central Connecticut Regional Water Authority joined more than 130 water utility leaders from 48 states to participate in AWWA's 'Water Matters! Fly-In' to meet with members of Congress and their staff on issues affecting the water industry.

As former House Speaker Tip O'Neill famously commented, "All politics is local." By bringing water professionals to Washington to meet with their local Congressmen, Fly-Ins are an effective way of making sure that lawmakers and their staff understand the impact of various legislative issues on their local communities.

These meetings are also important to further establish our members as authoritative sources of knowledge and expertise on water related issues. This helps strengthen AWWA's advocacy efforts to advance positions on key issues pending before Congress.

This year, delegates urged Congress to increase the effectiveness of the Water Infrastructure Finance and Innovation Act (WIFIA) by repealing a ban on the use of tax-exempt bonds in WIFIA-funded projects. WIFIA, which was enacted in 2014, provides low-interest federal loans for up to 49% of large drinking water, wastewater, and water reuse projects. Unfortunately, the law prohibits tax-exempt bonds from funding the remaining 51% of the project, undermining a critical tool that communities rely on to fund projects.

The Fly-In is a two-day event. The first morning begins with briefings and discussions of current drinking water issues before Congress and issues that AWWA wants to bring before Congress. Participants are provided with AWWA issue papers or briefs on key issues to ensure that a consistent message is communicated to members of Congress. The afternoon and the next morning are set aside for AWWA members to visit with their local Congressman and staff.





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CWWA Regulatory Watch

Dam Safety Regulations

Proposed changes to Connecticut's Dam Safety Regulations have been noticed by the state Department of Energy and Environmental Protection (DEEP). The changes to the regulations are required to implement recent statutory changes regarding dam safety mandated by Public Act 13-197. The statutory changes shifted responsibility for inspections to dam owners to ensure more frequent and consistent inspections in the interest of protecting human health and public safety. The statutory changes also require dam owners to submit Emergency Action Plans. For more information, please visit *www.ct.gov/deep/dams*.

New Bulk Water Hauler License

The Connecticut Department of Public Health is urging water companies to remind bulk water haulers that they are required to obtain a license from DPH. The new law, effective October 1, 2014, is applicable to haulers who transport drinking water supplies to a water company or a consumer of a water company. Bulk water haulers are sometimes used in the event of an emergency or critical need. For more information, please contact DPH's Dominic DelVecchio at (860) 509-7333.

Draft Contaminant Candidate List (CCL 4) Published

To ensure continued protection of public health, EPA has published for public review and comment a draft list of contaminants that are not currently regulated in drinking water, but may require regulations in the future under the Safe Drinking Water Act (SDWA). The agency will evaluate and consider the public comments on developing the final CCL 4 and suggestions for improvements to the process for future CCLs. Inclusion of contaminants on the CCL is one tool the agency uses to identify contaminants for regulatory decision making and research needs. The draft CCL 4 includes 100 chemicals or chemical groups and 12 microbiological contaminants. The list includes: chemicals used in commerce, pesticides, biological toxins, disinfection byproducts, pharmaceuticals, and waterborne pathogens. Contaminants on the CCL are known or anticipated to occur in public water systems at levels of potential concern for public health. The SDWA requires EPA to publish the CCL every five years. For more information, visit *http://www2.epa.gov/ccl/contaminant-candidate-list-4-ccl-4*.

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Connecticut Water Works Association
Working for Quality Water



44TH ANNUAL JOINT CONFERENCE

JOIN US FOR THE 2015 ANNUAL JOINT CONFERENCE

as we return to Ocean Edge Resort – Brewster, MA

****** Training Contact Hours (TCH) will be offered for educational credits **** for attendance at the Wednesday and Thursday sessions.**

This year's conference will feature a full array of interesting technical sessions, industry updates and conference events that will benefit all attendees, including an AWWA/Section Forum, which will be facilitated by AWWA Vice-President Stephen Shoaf. Conference registration begins at 11:00 a.m. on Wednesday, May 20, 2015 followed by a buffet luncheon at 11:30 a.m. As in the past, we are grateful to have the Associates Committee sponsoring the Wednesday luncheon and the keynote speakers, James Turek and Jessica Pruden who will provide a very special presentation for the National Oceanic and Atmospheric Administration (NOAA) on the recovery story of the sturgeon, once on the brink of extension, with emphasis on Connecticut experiences.

We look forward to seeing you in Brewster in May.

IN THIS SECTION OF *INFLOW-LINE*, YOU WILL FIND:

- **CONFERENCE AGENDA:** The Conference Agenda details the times and topics of technical sessions.
- **CONFERENCE REGISTRATION:** The Conference Registration Form should be completed and returned with the appropriate registration fees by Wednesday, May 6, 2015. Golf and bocci are available on Thursday afternoon. Please indicate on the registration form if you are interested in participating in either of these activities. Please note the golf fee includes greens fees, cart, box lunch and prizes, and is not refundable.
- **TECHNICAL SESSION REGISTRATION:** Registration Form for the Technical Sessions only.
- **HOTEL REGISTRATION:** Hotel registrations must be made directly with Ocean Edge, by Monday May 4, 2015. Breakfast, dinner, taxes, and fees are included in the room cost. The number of rooms available are limited and will be available on a first come, first serve basis.
- **SPONSORSHIP OPPORTUNITIES:** Companies are offered the opportunity to sponsor different portions of the conference. From break stations to social hours, there are many options to choose from. Please see the attached sponsorship form for details. Completed forms are to be sent to the CTAWWA by Wednesday, May 6, 2015 to meet publication deadlines.

CTAWWA accepts all major credit cards and you can register for the conference online. Please visit our website at ***www.ctawwa.org*** for details.



CONFERENCE AGENDA

Wednesday, May 20, 2015

SPECIAL NOTE: Training Contact Hours (TCH) are available for educational credits for the Wednesday afternoon (3* TCH) and Thursday morning (2* TCH) sessions

11:00 a.m. **REGISTRATION**

11:30 a.m. **LUNCHEON**
Sponsored by the Associates Committee

1:00 p.m. **LUNCHEON SPEAKER**
James Turek, Restoration Ecologist
NOAA Fisheries' Restoration Center
Jessica Pruden, Shortnose Sturgeon
Recovery Coordinator
Greater Atlantic Region Protected Resources Division

2:00 p.m. **WELCOMING REMARKS**
Fred Rogers, CTAWWA Chair
Robert W. Wesneski, CWWA President

2:15 p.m. **NATIONAL UPDATE**
Stephen Shoaf, Vice-President, AWWA

2:30 p.m. **CWWA LEGISLATIVE UPDATE**
Betsy Gara, Executive Director, CWWA
Lori Vitagliano, Regional Water Authority
Maureen Westbrook, Connecticut Water Company

3:30 p.m. **TBD**

4:00 p.m. **BREAK**

4:15 p.m. **STREAMFLOW REGULATIONS:**
COMPLIANCE MAY BE SOONER THAN YOU THINK
Peter Galant, P.E., Tighe and Bond
David Radka, Connecticut Water Company
Christina Jones, P.E., Tighe and Bond

4:45 p.m. **EFFECTIVE ADVANCED OXIDATION TREATMENT**
James Collins, P.E., ARCADIS

6:45 p.m. **RECEPTION, DINNER AND AWARDS BANQUET**
Guest Speaker, TBD

*** TCH HOURS PENDING APPROVAL FROM CT DPH**
AGENDA SUBJECT TO CHANGE





44TH ANNUAL JOINT CONFERENCE

CONFERENCE AGENDA

Thursday, May 21, 2015

SPECIAL NOTE: Training Contact Hours (TCH) are available for educational credits for the Wednesday afternoon (3* TCH) and Thursday morning (2* TCH) sessions

8:00 a.m. **AWWA / SECTION FORUM**
Facilitated by Stephen Shoaf, Vice-President, AWWA

9:15 a.m. **PIPELINE RENEWAL AND REPLACEMENT: WHAT ARE MY OPTIONS**
Gerald Furrier, P.E., CDM-Smith

9:45 a.m. **STRATEGIC PLANNING FOR FUNDAMENTAL CHANGE**
Tim Hawley, Regional Water Authority

10:15 a.m. **WATER LOSS CONTROL: MOVING BEYOND UNACCOUNTED FOR WATER USING M36 METHODOLOGY**
Steve Rupar, P.E., Tata and Howard

10:45 a.m. **ASSET MANAGEMENT**
Beth Nesteriak, P.E., Regional Water Authority

7:00 p.m. **RECEPTION AND DINNER**

*** TCH HOURS PENDING APPROVAL FROM CT DPH**
AGENDA SUBJECT TO CHANGE

Friday, May 22, 2015

8:00 a.m. **BREAKFAST MEETING**
CTAWWA / CWWA Joint Board Meeting

9:00 a.m. **MANAGING WATER TREATMENT RESIDUALS IN CONNECTICUT**
Paul Malmrose, P.E., Tighe and Bond

9:30 a.m. **HOW IS TECHNOLOGY CHANGING THE WATER UTILITY INDUSTRY**
Morrice Blackwell, Badger Meter

10:00 a.m. **EPA'S CLEAN POWER PLAN IMPLICATIONS FOR THE WATER SECTOR**
Adam T. Carpenter, ENV SP, DTM,
American Water Works Association

10:45 a.m. **BREAK**

11:00 a.m. **WATER FOR PEOPLE - ACTIVITY UPDATE**
Rob Page, Water for People Committee

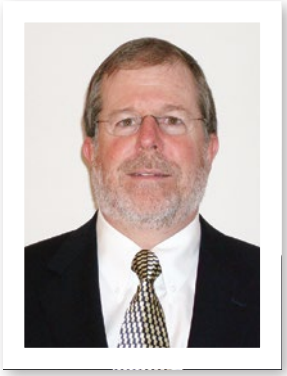
11:15 a.m. **WFP SMARTS GAME**
Steve Melanson, Connecticut Water Company

Noon **CLOSING COMMENTS AND ADJOURNMENT**
Steve Rupar, CTAWWA Chair
Steve Pratt, CWWA President



FEATURED SPEAKER

Stephen Shoaf, Vice-President, American Water Works Association



Stephen R. Shoaf is the Director of Water Resources for the City of Asheville, NC. He began his career performing water and wastewater research through the University of North Carolina. There, he gained a strong background in treatment methods, sampling, and analyses. He served the City of Burlington, NC as the Utilities Administrator / Utilities Director for 21 years, overseeing water and wastewater utilities. Stephen has been with the City of Asheville for five years.

Stephen joined AWWA in 1989 and has been an active member of the North Carolina Section of AWWA. He has chaired and served on numerous committees, progressed through the chair positions, and is currently serving his third term on the NC Section Board of Trustees. He has been an instructor and speaker at seminars, workshops, and operator certification schools. Stephen is in his third year as the AWWA Director from North Carolina and was installed as a Vice President of AWWA at ACE14.

Stephen lives in Asheville, NC with his wife Carole.

WEDNESDAY'S LUNCHEON SPEAKERS

James Turek, Restoration Ecologist, *NOAA Fisheries' Restoration Center*

Jessica Pruden, Shortnose Sturgeon Recovery Coordinator, *Greater Atlantic Region Protected Resources Division*

CTAWWA will begin its Annual Conference on Cape Cod with a very special presentation by the National Oceanic and Atmospheric Administration (NOAA) on the recovery story of the sturgeon, once on the brink of extension, with emphasis on Connecticut experiences.

NOAA's National Marine Fisheries Service is the federal agency, a division of the Department of Commerce, responsible for the stewardship of the nation's living marine resources and their habitat. NOAA's National Marine Fisheries Service is responsible for the management, conservation and protection of living marine resources within the United States' Exclusive Economic Zone (water three to 200 mile offshore). Under the Marine Mammal Protection Act and the Endangered Species Act, NOAA's National Marine Fisheries Service recovers protected marine species (i.e., whales, turtles) without unnecessarily impeding economic and recreational opportunities. With the help of the six regional offices and eight councils, NOAA's National Marine Fisheries Service is able to work with communities on fishery management issues. NOAA's National Marine Fisheries Service works to promote sustainable fisheries and to prevent lost economic potential associated with overfishing, declining species and degraded habitats. NOAA's National Marine Fisheries Service strives to balance competing public needs.



CONNECTICUT SECTION AWWA AND CONNECTICUT WATER WORKS ASSOCIATION

44TH ANNUAL JOINT CONFERENCE

FULL CONFERENCE REGISTRATION FORM

Includes Technical Sessions

Name: _____ Spouse/Guest: _____

Company: _____

Address: _____

City: _____ State: _____ Zip: _____

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NOTE: HOTEL REGISTRATION INCLUDES OVERNIGHT ACCOMMODATIONS, DINNERS, BREAKFASTS, TAXES AND GRATUITIES.
HOTEL REGISTRATIONS MUST BE MADE DIRECTLY WITH THE HOTEL USING THE ENCLOSED FORM.
FULL CONFERENCE REGISTRATION INCLUDES WEDNESDAY LUNCH.

CONFERENCE FEES (Per person):

Circle choices

Registration Member (Before May 6, 2015) $200

Registration Member (After May 6, 2015) $250

Registration Spouse/Guest $75

18-Hole Golf Tournament:

Circle choices

PRICE INCLUDES GREENS FEE, CART, BOX LUNCH AND PRIZES. PLEASE NOTE: REGISTRATION FEE IS NOT REFUNDABLE.

Golf: Member $115

Box Lunch Selection *(circle one)*: Italian Combo Turkey Roast Beef

Golf Spouse/Guest $115

Box Lunch Selection *(circle one)*: Italian Combo Turkey Roast Beef

TO ARRANGE FOR GOLF TEAMS: Contact Dan Lesnieski at (800) 428-3985 ext. 2834 / Fax (860) 627-6344

Bocci Tournament:

Bocci: Member $15

Bocci: Spouse/Guest $15

Please note: Lunch is on your own for bocci participants.

TOTAL OF ALL CIRCLED ITEMS ..... _____

PLEASE NOTE: CTAWWA ACCEPTS ALL MAJOR CREDIT CARDS. TO REGISTER ONLINE WITH A CREDIT CARD, PLEASE VISIT OUR WEBSITE: *WWW.CTAWWA.ORG*
OTHERWISE A CHECK CAN BE MAILED TO THE ADDRESS BELOW. ADVANCED REGISTRATION IS REQUIRED FOR THE CONFERENCE.
ALL ATTENDEES MUST BE REGISTERED FOR THE CONFERENCE. PLEASE RETURN THIS FORM WITH YOUR CHECK PAYABLE TO: "CTAWWA" AND MAIL TO:
CTAWWA, C/O SOUTHINGTON WATER DEPARTMENT, ATTN: FRED ROGERS, P.O. BOX 111, SOUTHINGTON, CT 06489

FOR QUESTIONS ON REGISTRATION, PLEASE VISIT OUR WEBSITE AT *WWW.CTAWWA.ORG* OR
YOU MAY CONTACT FRED ROGERS AT (860) 628-5593. ALL CALLS WILL BE RETURNED IN A TIMELY MANNER.

TECHNICAL SESSIONS REGISTRATION FORM

For Technical Sessions Only

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Email: _____ Phone #: _____

NOTE: PLEASE USE THIS FORM TO REGISTER FOR THE TECHNICAL SESSIONS ONLY. BY REGISTERING FOR ONLY THE TECHNICAL SESSIONS, YOU WILL NOT BE ADMITTED TO ANY OF THE CONFERENCE-RELATED ACTIVITIES. IF YOU WISH TO REGISTER FOR THE ENTIRE CONFERENCE, PLEASE USE THE FULL CONFERENCE REGISTRATION FORM.

TECHNICAL SESSIONS (Per person):

Circle choices

Wednesday Afternoon Technical Session $50

Thursday Morning Technical Session $50

Both Wednesday Afternoon and Thursday Morning Technical Sessions $100

WEDNESDAY LUNCHEON:

Wednesday Afternoon Luncheon $25

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CONNECTICUT SECTION AWWA AND CONNECTICUT WATER WORKS ASSOCIATION

44TH ANNUAL JOINT CONFERENCE

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We wish to be a sponsor for the following Annual Conference events:

Circle choices

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Break Stations $225

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Bocci Tournament Sponsor $50

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HOTEL REGISTRATION FORM

Ocean Edge Resort and Golf Club

PACKAGE: $322.57 SINGLE OCCUPANCY PER NIGHT | $450.70 DOUBLE OCCUPANCY PER NIGHT

CHECK–IN : **AFTER 4:00 PM**
CHECK–OUT: **BY 11:00 AM**

All reservations must be received by **MAY 4, 2015**

Reservations received after this date will be confirmed on an availability basis only.

**** PACKAGE INCLUDES:**

Overnight accommodations, full breakfast, buffet, dinner and all taxes and service charges.

DEPOSIT/CANCELLATION POLICY:

All reservations must be secured with a deposit equal to one night's stay. Late arrivals or early departures will cause forfeiture of deposit.

Cancellations that occur **within 3 weeks of May 20, 2015** will result in forfeiture of the deposit.

Cancellations that occur prior to the 3-week cutoff will receive a full refund.

Please complete and return this form as soon as possible to ensure confirmation of your reservation.

This reservation must be faxed or mailed with deposit to confirm.

NO PHONE RESERVATIONS PLEASE.

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Are 2 beds required? _____(please check if Yes)

Name: _____

Sharing With: _____

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Credit Card: _____ Exp: _____

Account #: _____ Amount: _____

Signature for card: _____

PLEASE RETURN THIS FORM WITH DEPOSIT TO:

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2907 Main Street, Brewster, MA 02631
Fax: (774) 323-6331

Mini-Golf Fundraiser a Success

The Connecticut Section AWWA Young Professionals and Water For People committees recently partnered with a mini-golf course review group, the Putting Penguins, to host an indoor mini-golf fundraising event at Chicago Sam's sports bar and restaurant in Cromwell. Putting Penguin staff improvised the course in the restaurant space with obstacle items provided by committee members and event hole sponsors. It was a one-of-a-kind, family-friendly evening of socializing, networking, and prize winning, all while raising more than $2,000 for Water For People! Special thanks to Snyder Civil Engineering, McWane Ductile, Hazen and Sawyer, The Cosentino Family, Len DeJong, EJ Prescott, Wright-Pierce, The Connecticut Water Company, and more than 100 participants for making the event a great success.



















WFP - YP Mini Golf at Chicago Sam's 3.10.15



How will frost heaves and potholes affect your system?

According to the state Department of Transportation, they are "ramping up what will likely be the worst pothole season that many of us have seen in our lifetimes." We would like your input on how potholes and frost heaves will affect your water system to include in an article in an upcoming issue of *InFlow-Line*. Let us know if this has caused problems with your system and how you are addressing it. Please contact Betsy Gara at *gara@gmlobbying.com*.





Fresh Ideas Contest Winner



Fresh Ideas is an annual national competition for student and young professional members of AWWA. The contest is aimed at getting new members involved in AWWA, encouraging student and young professional participation from all areas of the water industry, getting section Young Professionals (YP) and Manufacturers/Associates Council (MAC) members involved in section conference program activities, stimulating progressive thinking, and reducing the financial hardship for new members who want to attend ACE.

The finalists of each Section win a sponsorship to ACE and compete for top honors. This year's Section competition was held at ATCAVE on February 24. There were two participants: Kevin Armstrong of the Town of Portland with his poster 'Digitizing Your Water Infrastructure' and Amy Busko of the Regional Water Authority with her poster 'Streamlining Residuals Management.' The competition was judged by Mark Anderson, Dan Lesnieski and Gerald Reginatto.

In the closely judged competition, **Amy Busko** was selected as the winner! Amy is a Project Manager in the Capital Planning and Delivery Department at South Central Connecticut Regional Water Authority, based in New Haven, Connecticut. Amy received her Bachelor's degree in Civil Engineering from Merrimack College and is currently pursuing a duel Master's Degree in Environmental Engineering and Business Administration from University of Hartford. As a Project Manager, she is responsible for managing capital projects from design through construction. She is also responsible for helping manage coordination and reimbursement efforts for State funded projects. Previously, Amy was employed by Roald Haestad Inc. and the City of Melrose, MA as a staff engineer. Amy is a member of the American Water Works Association and serves on the Program Committee and Young Professionals Committee for the Connecticut Section.

Congratulations to Amy and thank you to everyone who helped to put on the competition!

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McWane Ductile Announces Consolidation

The new year brings an exciting change for the McWane ductile iron pipe companies. As of January 2015, McWane Cast Iron Pipe Company, Pacific States Cast Iron Pipe Company, Atlantic States Cast Iron Pipe Company, and Clow Water Systems will be unified under the new name McWane Ductile. This consolidation creates a united company focused on providing excellent service and quality products to our customers, while making all of the divisions recognizable as part of the McWane family of companies.

By bringing the divisions together under one name, we strengthen our efforts to provide the market with one united brand. Although our name has changed, our promise to our customers and partners remains the same as we build on our nearly 100-year history of creating iron-strong utilities.

This change benefits our customers in several ways. It provides a uniform business experience across our operations by standardizing purchase orders and acknowledgements, invoicing, RMA procedures, quotations, terms and conditions, submittals, and most other customer service processes. It also aligns the very best practices and cultures from our operations under one umbrella for consistency and efficiency.

As we move ahead as McWane Ductile, our entire team will strive to make this transition as smooth as possible for you. You'll continue to work with the same familiar faces, who, if they haven't already, will reach out to you soon to provide their updated email addresses and our new universal mailing address. If you have any questions about our new name and how it might affect you, please let your sales person know. Look for more details in the latest edition of Modern McWane, or visit *mcwaneductile.com*.

Robert Jacobson

Named Chief Financial Officer of R. H. White Companies

David White is pleased to announce that Robert Jacobson has joined R. H. White Companies of Auburn, MA in the position of Chief Financial Officer.

Jacobson will be responsible for planning, developing, and implementing the organization's financial strategy and fiscal performance.

"Bob brings with him more than thirty years of financial experience in the construction industry and public accounting and will be a great addition to our team," Dave said. "We are looking forward to Bob playing a critical role in planning, developing, and implementing the organization's financial strategy and strengthening our fiscal performance. Bob's experience, skills and drive will help build the foundation that will take R.H. White to the next level."

Bob earned his B.S. Degree in Accounting from the State University of New York at Albany and his Master of Business Administration in Finance from the University of Connecticut.

About R.H. White

R.H. White is a full service Contracting and Construction Management firm with over 500 employees and seven locations throughout New England. R.H. White has been serving customers in the Utility, Manufacturing, Technology, Residential and Commercial Development sectors since 1923.

For additional information contact:

Lisa Russo
R.H. White Companies Inc.
41 Central St.
Auburn, MA 01501
508-832-3295

"Bob's experience, skills and drive will help build the foundation that will take R.H. White to the next level."



Wright-Pierce Growth Continues

Thirteen more hires in second half of 2014 to serve expanding client base

Wright-Pierce, an award-winning, employee-owned engineering firm specializing in water, wastewater, and civil/ infrastructure services throughout the Northeast, announces 13 new hires in the second half of 2014, and anticipates continued growth at each of the company's seven New England offices to support the firm's expanding client base. Five of the new hires will be in the Connecticut office.

Therlin Montgomery, a Senior Wastewater Engineer; **James Papadimitriou**, PE, a Senior Project Manager; **Mark W. Cunningham**, PE, a Senior Structural Engineer; **Udayarka Karra**, Ph. D., a wastewater engineer, and **William A. Edgerton**, a recent University of New Hampshire graduate, have joined the **Middletown, CT office**.

According to John W. Braccio, President and CEO, "Our reputation for innovative, solution-oriented design and a responsive, client-focused approach has helped us win numerous new projects. Our work and recognition in the industry has enabled us to attract talented individuals whose contributions allow us to provide increasingly strong service to our expanding client base throughout the Northeast."

About Wright-Pierce

Wright-Pierce is an award-winning engineering firm specializing in water, wastewater, stormwater, and infrastructure services. For more than 65 years, Wright-Pierce has been providing reliable, affordable and sustainable solutions to public and private clients throughout the Northeast. We are an exceptionally strong advocate for our clients and committed to our clients' success. Founded in 1947, Wright-Pierce is employee-owned and has a staff of more than 200 engineers and support professionals located in the firm's seven offices.

Weston & Sampson Announces New Hires

Weston & Sampson is pleased to announce that Thomas Hydro and Thomas Williams, both formerly of Layne Christensen Company, have joined Weston & Sampson as Project Manager and Senior Inspector, respectively. Tom Hydro brings to Weston & Sampson more than 23 years of experience related to water wells, pumps, and drilling throughout New England while Tommy Williams has more than 40 years of experience providing well pump inspection, installation, and troubleshooting services for all types of pumps and equipment.

South Central Connecticut RWA announces two new hires

The South Central Connecticut Regional Water Authority is pleased to announce two recent hires. East Hampton resident Dana Bochan has joined the Authority in the position of Business Transformation Lead in the Business Planning, Development and Finance Division. In her capacity, Bochan will be responsible for process improvement initiatives throughout the Regional Water Authority that support the company's strategic direction. Bochan will play a key role in mapping out business processes and will work with departments to identify continuous improvement opportunities. Bochan earned her Bachelor of Science in Marketing from the University of Connecticut in Storrs.



Dana Bochan



Kevin Dupre

Durham resident Kevin Dupre has joined the Authority in the position of Director of Service for the Service and Technology Division. Dupre will be responsible for several departments including Contracts and New Services, Field Services, Meter Reading and Meter Shop, and Customer Service. Dupre earned his M.B.A. from the University of New Haven and his Bachelor of Arts degree from the University of Connecticut.



Milone & MacBroom
Celebrates Dr. King's Legacy



"As we reflect on the significance of Dr. Martin Luther King, Jr.'s contributions, there is no greater way to celebrate his legacy than to serve the communities where we live and work," announced the Milone & MacBroom Community Outreach Team. "We have always valued community service, and we encourage our employees to become involved in local communities and volunteer to support programs that positively impact the quality of lives within the communities in which we live and work."

The Team organized a variety of community service projects in which employees took part, including the following.

CHRISTIAN FELLOWSHIP CENTER – The Christian Fellowship Center serves as a food pantry and provides cooked meals and food for those in need of meals in the Bristol, Connecticut community. A large group of MMI volunteers assisted in offloading the Food Share trucks and stockpiled several thousand boxes of dry and canned food items.

BIKES FOR KIDS – This was the fourth year a team of enthusiastic volunteers partnered with Bikes for Kids, a charity located in Old Saybrook, Connecticut, to repair used bicycles, which are reconditioned and given to children in need. The vast majority of bikes go to kids in Connecticut; however, many have been shipped to other countries or areas in need.

SIMSBURY VOLUNTEER AMBULANCE ASSOCIATION – Simsbury Volunteer Ambulance Association is a nonprofit organization that provides training and paramedic services to the Simsbury, Connecticut community. MMI volunteers painted the hallway, entryway, and bathrooms to the facility, which built upon the previous years' work of painting the meeting room, living room, and kitchen with the goal of revitalizing the facility.

SOUTH PARK INN – Employees and family members were excited to serve at South Park Inn in Hartford, which is an agency that provides outreach programs for the homeless, including temporary and long-term housing. The team's day of service included painting the hallways and bathrooms, cleaning the furniture in the front lobby, and organizing crafts and activities for children currently living in the shelter.

GIRLS INC. OF GREATER WATERBURY – For a second year, MMI employees volunteered at Girls Inc. of Greater Waterbury, Connecticut. The team designed and constructed several much-needed improvements including two coat racks with storage cubbies for 24 girls and two separate lighted trophy display cases with storage areas for 42 girls. Girls Inc. can now proudly display the trophies it has earned in gymnastics, karate, dance, Lego robotics, and other sports.

ST. MARTIN DEPORRES ACADEMY – This was the first year volunteers served at St. Martin dePorres Academy located in New Haven, Connecticut. The Academy serves kids in the Greater New Haven area where there are significant rates of unemployment, teen pregnancy, and crime. The MMI team assembled office dividers and painted two large classrooms and a large hallway.

HABIT FOR HUMANITY – MMI was happy to partner with Habitat for Humanity to assist with the rehabilitation of an existing home on Berkeley Avenue in Waterbury, Connecticut. The team's work included washing walls, and cleaning and painting. Thanks to the diligence and hard work of the team, all scheduled work was completed, and the interior of the home was transformed into a bright and clean space ready to welcome a new family.



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LESSONS FROM THE FIELD

OBSERVATIONS FROM A WORLD WATER CORPS® VOLUNTEER



Since 1994, the Connecticut Section of the American Water Works has contributed more than $314,000 to Water For People through its Water For People Committee. In 2006, Water For People established the World Water Corps to give volunteers the opportunity to provide technical assistance to countries in a wide variety of disciplines including engineering, finance, water management, water science and GIS. Following are some observations made by a World Water Corps member during six field assignments.

Hippos – Killers or cowards?

Hippos, which weigh up to 8,000 pounds and are able to run over 20 m.p.h, are considered the most dangerous animals in Africa. Hippos are responsible for more than 200 deaths a year. While boating on the Shire River in Malawi, our team was approached by a male hippo in front of a group of females. He stood up on his front forelegs and bellowed loudly at us, showing his long and sharp teeth. Our boatman said, *Watch this!* He pointed the boat towards the hippo, turned the boat in a circle while revving the boat's engine. The male hippo promptly ran behind the females where he bravely proceeded to bellow at us again.

Water For People has been working in Malawi since 2000. It concentrates its efforts in three regions: peri-urban Blantyre and the rural districts of Chikhwawa and Rumphi. Water For People – Malawi has become a leader in the water and sanitation sector in the country promoting innovative and sustainable approaches to water and sanitation services.

Red Sox or Yankees – a Honduran perspective

We had a long hike ahead of us in which we would map and conduct a water survey at a village in the municipality of El Negrito, Honduras. The narrow path continually rose and fell steeply through knee-high grasses. My Honduran colleagues warned me about the ticks hiding there. After some discussion, we all agreed that Connecticut ticks were much worse after the Hondurans heard about Lyme disease. We heard a roar in the distance. *Puma!* said Ignacio, our municipal representative. At a stream crossing, I stopped to cool my hands the brook. Since the water was stagnant, my colleagues warned me to stop because of the possibility of parasites. After crossing the stream, we continued on through a forested area until we reached a clearing with four small buildings. After a somewhat grueling four-hour hike to get to this remote village, the first thing I saw was a young man sorting coffee beans wearing a Boston Red Sox hat. When I told his father that the Red Sox were a team that played near me in the U.S., we both had a good laugh. That his son chose to wear a Red Sox hat was more evidence of the intelligence of the Honduran people.

Water For People – Honduras is focusing its programming efforts on three rural municipalities: Chinda, El Negrito and San Antonio de Cortés. At the end of 2011, Chinda was the first of the Water For People municipalities to reach every family, every school, and every health clinic with safe drinking water and sanitation.

Coca Cola can be better than you think

Brian Mulenga of Water For People – Malawi and I were interviewing a local water committee member near a well with a hand pump in the district of Chikhwawa. The temperature according to my backpack thermometer was 112° F. Brian translated the questions I asked about the water source into Chichewa, the local language. As was often the case, many people were gathered around us during the interview. I was astonished by the memory of the man I was interviewing. Most water committees had difficulty, as I would have, remembering the year a pump was installed unless it was inscribed on the concrete pump pad. The person I was interviewing at this time, however, immediately answered the year the pump was installed when I asked. For fun, I asked him the month. Again he answered right away. The day – he knew it. Everyone started to laugh. I asked him the hour the pump was installed. He started to answer but his answer was drowned out by laughter. While asking the questions, a very nasty looking bug had started walking up my arm unnoticed. A woman sitting next to me gently brushed the bug off my arm then motioned for me to follow her. We walked a few hundred feet down a dusty road to her shop, which was in a small kiosk. She opened up a bottle of ice cold Coke, then handed it to me. Best Coke I ever had.

Water For People uses a program called akvoflow to collect, manage, and display geographically referenced monitoring and evaluation data. FLOW, which stands for Field Level Operations Watch, brings together three elements; 1) handheld data collection running on Android phones with integrated GPS, camera and adaptive surveys 2), a web-based dashboard where users manage and analyze FLOW surveys and data, and 3) visual map-based reporting tools displayed in Google Maps and Google Earth.

People can get along

In 2007, the World Water Corps teamed with El Porvenír to conduct a water and sanitation needs assessment in the municipality of Wiwilí in the Jinotega department of Nicaragua. The members of El Porvenír's staff had representatives from both sides of the recent civil war. People from each side of the conflict had stories to tell about their personal struggles and the suffering of their families. Yet in 2008, they were all working together to improve the water quality and sanitary conditions of their fellow countrymen.

In the Nkolokoti low-income area in Blantyre, Malawi, Sheik Jafali Kawinga, a Muslim, was the president of his area's Water User Association. In the initial meeting with the World Water Corps, Sheik Kawinga asked a Seventh Day Adventist to conduct an opening prayer before our meeting, then asked a Roman Catholic to close the meeting with a prayer.

Sometimes it pays to lose the game

The Mayans believed that their ball game, called *Pokatok,* was very important in keeping the heavens, earth and underworld in proper order. Our guide at the Copán archeological site in Honduras told us that the real winners of *Pokatok* were the players that were sacrificed. Their sacrifice appeased the gods and brought good fortune to the village they represented. The sacrifice involved their own decapitation. Sometimes it may be better to lose a game than win it.

The universal quality of beer

It seems to me that good beer is available throughout the world. Malawi has Carlsberg, Honduras has Salva Vida, Peru has Pilsen Callao, and Nicaragua has Cerveza Toña. Perhaps the quality of beer world-wide is due to the care it takes to brew beer that does not spoil. However, there always seem to be similar beverages of dubious qualities. In Central America there are many brews made from cane sugar that can be strong and somewhat troublesome to a sensitive stomach. In Malawi, *Chibuku*, or Shake Shake is brewed from sorghum or corn and gets stronger as it ages. It has been described as lumpy, sour, porridge-like and smelling like old socks. At any rate, our Malawi 2013 team could feel good buying quality Carlsberg beer in Malawi. All the profits from the beer we bought at Kabula Lodge helped pay for the education of Lucy, the five year old granddaughter of a woman who worked at the lodge.

What has value?

We were hiking near the town of Cascas in northern Peru, conducting water and sanitation surveys along the way. Every step we took seemed another foot (0.348 m) higher in elevation. When we reached the highest point on our trip, we met a farmer who was happy to answer our survey questions. After the interview, he thought we would be interested to see a number of pre-Incan carvings he found when plowing his fields. The carvings were about the size of an adult's hand and had the color and feel of soapstone. They depicted various animals and geometric patterns. After he finished showing us the objects, he threw them back on a pile of the carvings where many of them shattered. We had an ache in the pit of our stomachs as we returned to Cascas.



Water For People began its program in Peru in late 2008, selecting three rural municipalities: Cascas, La Libertad, and Tumbaden; Cajamarca in northern Peru; and Majes, Arequipa, in southern Peru. Water For People – Peru later expanded its programming to include sustainable sanitation work in peri-urban Arequipa.

Is it better to know or not to know?

Some of the roads in the back country of Nicaragua can be treacherous – especially during the rainy season. The roads can become so muddy that even a four-wheel-drive vehicle cannot pass. The grades can be very steep and there are no guard rails near the edge of roads where the terrain drops rapidly into the valley below. We were lucky to have a skillful driver, Ernesto, an attorney from Managua. One time after we went over the crest of a hill, we began sliding down the muddy downward slope of the road. Ernesto changed gears, applied the breaks, and tried to control the direction of the truck, but nothing seemed to stop us from moving towards the edge of the road. When the car finally came to a rest Ernesto asked me, "Roberto, were you nervous?" I said, "No, I have trust in you as a driver." Ernesto said, "Roberto, *I* was nervous!"

Happy as a pig in mud

One of the enjoyable aspects of meeting people from different countries is sharing expressions that are unique to a specific culture. When I saw the pigs wallowing in the mud near a water point, I explained the phrase *Happy as a pig in mud,* which made sense to the members of the local water committee and made them laugh. Some favorite Malawian sayings that I have learned include: *Don't think there are no crocodiles just because the water is calm; He can see a louse as far away as China but is not aware of the elephant on his own nose; Gold is a debt we can repay, but kindness not till our dying day; If you have give – if you need, seek;* and *Don't use an axe to do embroidery.*

Water points in rural areas developed under the supervision of Water For People – Malawi are constructed with a brick wall around them to prevent wandering animals from contaminating the area.

Be honest when you sell cheese

In Chinda municipality, Honduras, we hiked around the backside of a mountain to an isolated indigenous village. The people in the village were relatively short and they all seemed to be carrying machetes. A Honduran college student we were working with was excited that he had never seen this group of people before. The village overlooked a valley towards another range of mountains with no other signs of human habitation. I thought to myself, *I am a long way from home*. I also wondered what I would do if these people became angry with me. I could not outrun them and I did not have a machete. As it turned out, one of the villagers became friends with me and rode in the truck with me to the next two villages even though we could not speak each other's language. Four or five days later, a different World Water Corps team visited the same area. When that team rejoined us in the evening, they asked me if I had heard about my friends. Two villagers had apparently used their machetes to kill a cheese salesman who had tried to cheat them.

People want to help themselves

I heard a story about a Honduran village that saved up enough money to start constructing a water system. A representative of the village was robbed and killed when he attempted to take the money the village saved to a bank in town. The village saved their money again. Naturally they did not want to take the money to town so they stored it in a local building. Rats ate the money. Once again they saved their money and now have a water system. In the low-income areas of Blantyre, Malawi, Water For People assists in establishing Water User Associations to manage communal water points. The Water User Associations are self-governing, keep their own books, sell water through kiosks, are responsible for maintaining the kiosks, and pay the Blantyre Water Board for water piped to its kiosks.

Water For People focuses on community/government/NGO collaboration and contributions in the form of time, money, maintenance and education from entire district populations to ensure long-term investment and commitment to clean water and sanitation services. Everyone who wants water does their part to get it and keep it.

Witchcraft and dowsing rods

Peter Chinangwa, Brian Mulenga, and I were waiting to be picked up at the end of a day of water point surveys. Peter began talking about how the belief in witchcraft sometimes affects water use in remote areas. Some people who do not want to pay their water tariff will threaten to place a curse on the water point causing the well to dry up or produce unpotable water. I mentioned my experience with dowsing rods. An experienced engineer who liked to challenge me to think about how and why things worked told me to go to the garage, ask them to make me some dowsing rods, then go to a pump station and try to find where some asbestos cement pipe crossed the curb. He would ask another person to do the same thing at a different time without telling us where he thought the pipe was; then he would use dowsing rods to locate where he thought the pipe was. All three of us independently located the pipe in the same place. All three of us were wrong. I brought the dowsing rods home to my wife who successfully located our sewer lateral without having any previous idea where the lateral was located. I noticed that when my wife used the dowsing rod, the wires crossed when she located the lateral. When I used the dowsing rods, the wires swung out. Since we had been married for 30 years at the time, I thought the use of dowsing rods could become the basis of a dating service, the theory being opposites attract. I said that if I ever returned to Malawi, I would bring them a set of rods. I mentioned that a German study found no scientific proof that dowsing rods worked. I also said that an operator at our company said that for location purposes he would always try modern electronic equipment first but when that failed, he would use dowsing rods which he felt worked about 70% of the time. The next year, I was able to bring a set of dowsing rods to Malawi, I thought mainly for dating-service purposes. Last month I received a polite thank you note thanking me for the rods since they had proven more effective in finding water in a dry area than electronic equipment. A follow-up report was promised.

Your contributions do make a difference!

Water For people's goal is complete water coverage for every family, every school, and every clinic. *Water for Everyone, Forever.* The continual and generous support of the Connecticut Section of the AWWA has helped Water For People make a difference in people's lives and take steps towards meeting this goal. Please use the following links to find additional information about Water For People and how you can continue help:

Water For People's national website
www.waterforpeople.org

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2015 Drinking Water Infrastructure Needs Survey and Assessment (DWINSA)

By Rachel Nowek, Health Program Supervisor, CT DPH Drinking Water Section

The Connecticut Department of Public Health (DPH) Drinking Water Section (DWS) is actively participating in the 2015 Drinking Water Infrastructure Needs Survey and Assessment (DWINSA), anticipated to be released in April 2015. Connecticut's 2015 DWINSA sample contains 33 community public water systems serving varying population sizes.

Every four years since 1999, the U.S. Environmental Protection Agency (EPA) sponsors a DWINSA to evaluate the drinking water infrastructure capital improvement needs of the country and each state over the next 20 years. The results of these surveys are used by the EPA to determine the percentage of the Drinking Water State Revolving Fund (DWSRF) appropriation that each state will receive. Connecticut's DWSRF appropriation allows for eligible public water systems to receive DWSRF low-interest loans, and in some cases also subsidies, for drinking water infrastructure improvements. Funds can support planning, design, and construction of their drinking water infrastructure.

During State Fiscal Year 2014, the DPH provided nearly $28 million in funding for 17 infrastructure projects. Since its inception, the DWSRF program has provided more than $188 million for 116 projects. Additionally, DWSRF set-aside funds support DWS and DWSRF program staff and other drinking water program activities supporting public water systems throughout the state.

The 2011 (Fifth) DWINSA showed that Connecticut's estimated need had grown from $1.394 billion in 2007 to $3.587 billion in 2011.

The breakdown of these needs was as follows:

1. Transmission and Distribution: $2.584 billion
2. Treatment: $545.1 million
3. Storage: $267.3 million
4. Source: $146.6 million
5. Other: $35.0 million

Connecticut's drinking water infrastructure is aging, and as costs and need for infrastructure projects continue to increase, the demand for low cost loans will likely also increase. The DPH DWS has developed a strategy to accurately capture Connecticut's drinking water infrastructure needs over the next 20 years and increase the funding received to finance this need. Even a small change in Connecticut's allocation percentage could increase DWSRF funds for infrastructure and program support significantly.

Connecticut public water systems chosen for the 2015 DWINSA sample have been contacted by mail by the DWS. Designated DWS staff will be working on this project with the sampled utilities, collecting information regarding allowable infrastructure needs and costs from utilities. The DWS is looking forward to partnering with these water utilities to show the nation Connecticut's drinking water infrastructure needs.

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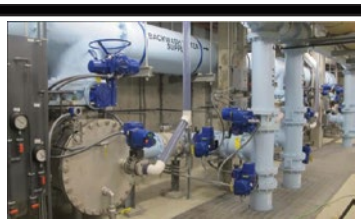
When you are a big player in the Connecticut water scene, business as usual is rarely enough. That is Tighe & Bond's take-away from providing engineering and environmental services to a wide range of water suppliers and municipalities in Connecticut for more than 20 years. Vitality, vision, and technical expertise are key – so are aspiring to be the best firm, attract the best talent, and staying steady on a path of managed growth. But more importantly is going the distance to satisfy your customers with exceptional service and cost effective solutions. And an occasional splash of humor.

In business for 105 years, Tighe & Bond has office in Middletown and Shelton, Connecticut. The firm also has offices located in Pocasset, Westfield, and Worcester, Massachusetts as well as one in Portsmouth, New Hampshire. Throughout this hefty time span, Tighe & Bond has weighed heavy in the water resources market.

According to President and CEO David Pinsky, "Tighe & Bond has been providing water suppliers and municipalities with engineering services to ensure an adequate supply of quality drinking water since our founding. Although our service offerings have expanded greatly over the years, drinking water resource projects continue to comprise approximately 20% of our revenues."

Tighe & Bond is recognized as a regional leader in providing solutions to water supply, treatment, and distribution challenges emanating from a changing regulatory climate and consumer demands. The firm has assisted dozens of public water suppliers (both large regional systems and smaller systems) with improvements to address both present day and future needs. Projects have included the evaluation and design of water treatment plant upgrades – ranging from less than 1 million gallons per day (MGD) to more than 100 MGD – in Connecticut and Massachusetts to meet new water quality requirements. Other projects include source development to meet increased water demands, and distribution system upgrades consisting of storage tanks, pumping stations, as well as transmission main and distribution pipeline improvements. The firm's expertise in hydraulic and water quality modeling, as well as treatment and chemical feed applications, enables it to provide practical and sustainable solutions.

Beyond upgrades and regulatory initiatives, Tighe & Bond assists clients with asset management so they can plan for more sustainable, efficient, and cost-effective infrastructure over time. According to the EPA, "A high-performing asset management program incorporates detailed asset inventories, operation and maintenance tasks, and long-range financial planning to build system capacity and it puts systems on the road to sustainability." Tighe & Bond also assists clients with finding just the right solutions for hydraulic modeling, cybersecurity, as well as other time-sensitive and critical challenges.



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Tighe & Bond's not-business-as-usual leadership team



Tighe & Bond and the Town of East Lyme team members at the 2015 ACEC/CT engineering excellence awards event after receiving the Grand Award for the East Lyme – New London Interconnection project



Tighe & Bond team members celebrate another good year at the firm's annual Lobsterfest last year

As a case in point, this past January Tighe & Bond took home ACEC/ Connecticut's coveted 2015 Grand Award for engineering excellence for its East Lyme –New London Interconnection project. This model of regional cooperation has been applauded by local and state dignitaries for its unique water 'banking' solution that ends 20 years of East Lyme summer water shortages.

In addition to water resource consultation, Tighe & Bond offers a full range of other engineering and environmental consulting services. This includes site development, parking and traffic, geotechnical, wastewater, stormwater management, energy conservation, geographic information systems, LEED consulting, and renewable energy design.

The firm's team of more than 250 employees is still growing strong with recent expansions in the firm's Middletown, Worcester, and Westfield offices. As an employee-owned firm committed to creating a working environment where all feel valued, Tighe & Bond has been recognized several times by ZweigWhite as one of the best engineering firms to work for in the nation.

Yet those at Tighe & Bond are quick to acknowledge that without the many phenomenal clients that they have had the privilege of collaborating and partnering with over the years, none of this success would have been possible. So, the Tighe & Bond team shouts out an appreciative thank you to all of its fabulous clients!

"Those at Tighe & Bond are quick to acknowledge that without the many phenomenal clients they have, none of this success would have been possible."



Neptune Technology Group Inc.



Technology, quality, service, and dedication to satisfying our customers' needs are the traditions that drive Neptune Technology Group. After more than 120 years of serving the water works industry, Neptune continues its reputation as a leader in North America. Originally founded as Neptune Meter Company in 1892, we continue to manufacture water meters and meter reading systems that have led the markets in the U.S., Canada, and Mexico for decades.

All Neptune products are manufactured in the U.S.A. at our headquarters in Tallassee, Alabama. We are proud of our longstanding relationships with the more than 60,000 water utilities, distributors, and consultants serving the industry. Neptune systems read more than 38 million utility meters per month throughout North America.

Neptune's success is also dependent upon the loyalty and integrity of our people. Tom Bedus joined Neptune in 1993 as a Territory Manager servicing our Connecticut and New York area customers, which continues today out of his Old Saybrook office. Tom's longevity with Neptune has been heavily influenced by the people he has met and worked with in the water works industry.

When we talk about our people, we include our distributors and our suppliers because they are an extension of our employees, and they are critical to our success. Neptune has a direct sales force and a network of distributors that ensure 100% coverage and local support for all our customers. Ti Sales Inc. of Sudbury, Massachusetts, has been our Neptune Authorized Distributor for Connecticut since 1980. Our centralized Customer and Systems Support functions ensure that all our customers can get answers to their questions in a timely fashion.

Many things have changed in the industry and the business over the years, most notably the increase of automation and technology. Our product portfolio is based on data integrity, system accuracy, and product and system migrateability.

Neptune's Absolute Encoder ensures accurate meter reads... every time.

NEPTUNE
TECHNOLOGY GROUP INC.

Add the R900 or R450 RF MIU (radio frequency meter interface unit) and your system is ready for migration to drive-by or fixed network (AMI) meter reading. The absolute encoder and data collection systems work together to eliminate billing discrepancies and customer complaints by providing accurate meter readings the first time, every time – guaranteeing efficiency, long-term value, and peace of mind.

Vertically integrated, and the only metering systems provider with its own dedicated foundry, Neptune has switched 100% of its bronze-body meter production to a bronze alloy that is virtually lead free.

Neptune has set the standard for quality, reliability, and accuracy. Our rich history includes many industry firsts with a proven track record of technological innovation, taking the company far beyond the basic water meter. From the industry's first ARB absolute encoder introduced in 1964, the company continues to offer a fully integrated migration path for its utility customers based on Neptune's industry leading E-Coder absolute encoder technology.

We at Neptune understand that our continued success is dependent upon the values that we have developed and refined over the last 110 years. Operational excellence is visible everywhere at Neptune. Continuous improvement has become the way we work – not just something for which we strive. Technological innovation and product differentiation have been cornerstones of Neptune all through the years. We will continue to invest in our product lines and in new technology to remain the leader in the industry. These values and our vision to become your **most valued partner** in the water works industry will lead us into another century of operational excellence and technological innovation.

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McWane Ductile **Represented by Jeff Houser**

As of January, the McWane Ductile Iron Pipe Companies, including Atlantic States Cast Iron Pipe Company, Clow Water Systems, McWane Cast Iron Pipe Company, and Pacific States Cast Iron Pipe Company became unified under the new name McWane Ductile. The consolidation creates a united company focus on providing excellent service and quality products to our customers, while making all of our divisions recognizable as part of the McWane family of companies.

"Bringing the divisions together under one name strengthens our efforts to provide the market with one united, Iron Strong Brand" says Jeff Otterstedt, McWane Ductile senior vice president. "While we have many valued and rich traditions that are unique to each of our divisions, we believe that we became stronger collectively as one distinct brand."

"Although our name has changed, our promise to our customers and partners remains the same," says Mike Dodge, McWane Ductile vice president of sales and marketing. "McWane Ductile will continue to provide high-quality products and superior service. We've been building Iron Strong Utilities for nearly 100 years, and this change demonstrates our commitment to be around for generations to come."

With this unification, McWane Ductile also is fully committed to maintaining and continually investing in our three plants, located in Phillipsburg, New Jersey; Coshocton, Ohio; and Provo, Utah. Providing quality Ductile Iron Pipe, meeting or exceeding industry standards, all made in the U.S.A.

Moving ahead, we will work hard to keep you apprised of company updates. We recently launched the McWane Ductile website and welcome you to visit us at mcwaneductile.com for the latest company news and product information.

If you haven't already, we encourage you to give the McWane Pocket Engineer™ app a try. It allows users to retrieve pertinent technical information on our products with ease through its automatic calculators. Users provide the relevant input data, and the McWane Pocket Engineer does the rest. It is designed to work on any mobile device, on any computer, and makes it easier than ever to do business with us.

McWane Ductile is fortunate to have a strong network of knowledgeable, experienced water works distributors in the State of Connecticut providing our complete line of products and services. Our distribution network includes Ferguson Waterworks, G & L Waterworks, and Superior Pipe Products. Each one of these fine water works distributors is fully capable to assist you in your project requirements.

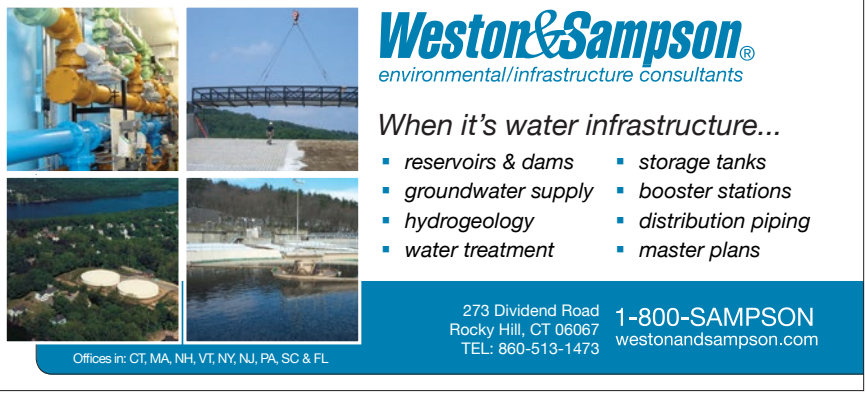
Jeff began his career in the waterworks industry in the late '80s with a family-run supply house (Vt. Waterworks) based in Rutland, VT selling for a distributor that also distributed Atlantic States Pipe.

In 1992, following in his father's footsteps, Jeff accepted a sales position in the Northern New England territory for Atlantic States Pipe, and later took a transfer into the New York territory upon his dad's retirement.

In 2009 Jeff assumed the role of New England District Manager for Atlantic, overseeing sales efforts for the territory, with primary sales responsibility in Connecticut and Massachusetts. Jeff is an active member of the CTAWWA Associates Committee, NEWWA Sponsor Services Committee, and Government Relations Committee of the Utility Contractors Association of New England.

Jeff travels the state on a consistent basis, and along with his network of experienced waterworks distributors is eager to assist you in your next pipe project.





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