InFlow-Line

The Magazine of the CT Section American Water Works and the Connecticut Water Works Associations Winter 2016/17



ATCAVE 2017

ANNUAL TECHNICAL CONFERENCE & VENDOR EXPO

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In*Flow*-Line

Volume 11 – Number 4

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Features

12 Message from the CTAWWA Director
18 CWWA/CTAWWA Fall Conference a Success
21 CWWA's 2017 Legislative Outlook
23 ATCAVE 2017
30 Community Engineering Corps – Assisting Communities
31 State Issues First-Ever Drought Watch
32 DEEP Updating CT's Comprehensive Energy Strategy
36 Always Have a Contingency Plan
38 Source to Sea Clean-Up
39 Developing a Balanced State Water Plan
40 Environmental Year in Review
42 Spring 2017 Training Schedule & Registration
45 Gateway Community College Spring 2017 Schedule
45 Scholarship Opportunities
46 Save the Date: Annual Joint Conference May 24–26, 2017
46 Welcome New CTAWWA Members

Cover photo: Spectacle Brook at Millstone Road on South Norwalk Electric & Water's watershed in Wilton, CT. Photo by Kathy Fortin.

InFlow-Line

Volume 11 – Number 4

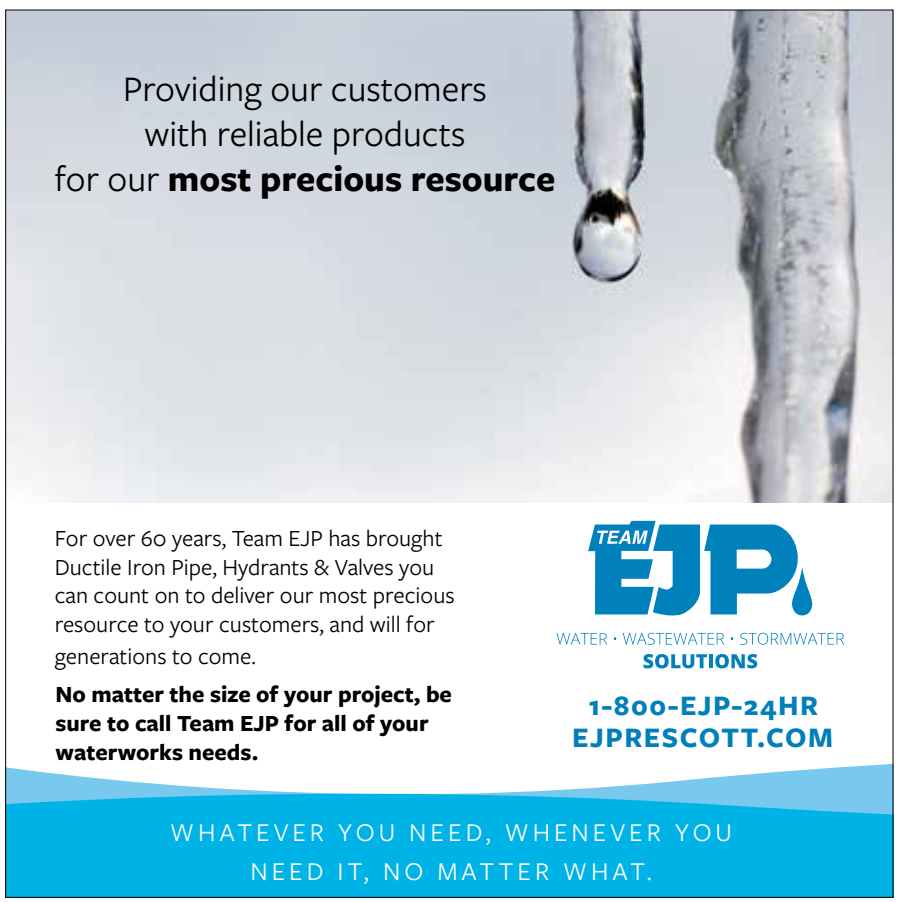
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Table of Contents

Departments

8 Message from the CWWA President
10 Message from the CTAWWA Chair
14 CWWA Compliance Corner
16 Committee Spotlight: Education & Program Committee
34 CWWA Regulatory Watch
48 Water Moves
49 News & Notes
51 Remembering Our Colleagues
52 Featured Section Enhancers
54 Advertiser Information Center




Balsam Lake, WI 1990


Gladeville, TN 1991 and 2006


Waterloo, ON 1986



Lubec, ME 1983

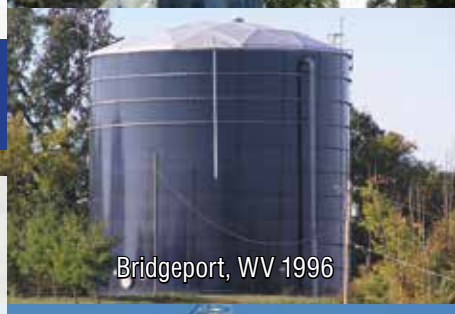

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The Worth of **Water**

We are in the midst of an intense period of activity concerning state water policy, with the State Water Plan, new Water Utility Coordinating Committee (WUCC) Plans, and an updated state drought plan simultaneously under development. CWWA has also engaged members and the Department of Energy and Environmental Protection (DEEP) to express our concerns with their planned modifications to the water diversion regulations. So as I was battling writer's block in collecting my thoughts and preparing this latest message, I was handed a gift contained in a fortune cookie neatly packaged within an order of Kung Pao Chicken:

We never know the worth of water
till the well is dry.

After two years of bantering, analyzing, posturing, pontificating, and maybe some bloviating about water amongst many, including myself, I do not believe I have heard a more elegant and succinct statement about the value of water. While hoping we receive some abundant rains by the time this issue goes to print, we are experiencing the driest two consecutive years most of us have seen in our careers as water professionals. Even the relief felt when Hurricane Matthew tracked well to our south in October was tempered by the fact that many of us would have welcomed a weekend washout from its remnants. In times like these, hypotheticals and statistics contained in our planning documents become more real, and safe yield begins to feel less safe.

Over the summer and fall, water utilities around the state declared voluntary or mandatory water restrictions for their customers. On October 28, Governor Malloy announced Connecticut's first ever Drought Watch, requesting residents, businesses, and local governments in six counties to voluntarily reduce their water use by 15%. Homeowners, farms, businesses, private well owners, and aquatic life have all felt the impact and anxiety (okay, perhaps fish anxiety is a stretch) that goes with an extended drought and our inability to predict with certainty when it will end.

Looking at the reservoir as half full, the current drought does lend the opportunity to see more clearly the importance of getting it right when it comes to planning Connecticut's water future. Connecticut is known as a "water rich" state, with an average annual rainfall somewhere in the vicinity of 45 to 50 inches depending on region. However, in the real world, in real time, there is no such thing as average. We can have years like 2008, where precipitation can exceed 70 inches, or 2015 and 2016 where it may barely surpass 30 inches. The timing of rainfall throughout the year is also a critical variable in determining whether a given water utility will hit its seasonal drought triggers. Contrast our current situation with the extreme wet weather events of only a few short years ago which placed storm resiliency as a top priority for state emergency planning initiatives.

The point is that the state and water utilities need to plan for high variability and uncertainty in addressing a host of issues ranging from water quality and quantity, water demand, environmental protection, economic growth, and aging infrastructure. The sources of uncertainty are many, and include climactic, political, social, demographic, regulatory, environmental, and economic factors. Expecting to forecast all of these factors within a reasonable degree of accuracy is just not possible. The state and water utilities need to plan for multiple futures to meet the needs of water users, with the ability and flexibility to monitor and adapt as trends are realized.

The coming new year will commence the fast and furious final phase to draft a State Water Plan, where decisions will be made that will guide policy and future legislation for years to come. Many different interests are engaged in the process and will be openly sharing their opinions as to how they think the state's water resources should be managed in the future. It will be critical that water utilities forcefully represent the best interests of their present and future water customers.

Decision-making concerning the contents of the plan will take shape at four remaining stakeholder workshops on January 12, February 2, February 16, and April 20. Three additional public meetings will also be scheduled. All attendees will have the opportunity to speak should they choose. If at all possible, please mark your calendars, and give some thought to some of the major public water supply questions that have emerged thus far from state water plan committee activities, stakeholder workshops, and public meetings, and what implications they might have for your water system, including:

- How should the plan address registered diversions? Water utilities have relied on water diversions registered in accordance with the 1982 Diversion Act to meet current demands, confidently invest in their infrastructure, and plan for the future. Registered water sources are currently exempt from DEEP diversion permitting. What data is needed to better understand the existing and future use of registered diversions? What mechanisms and incentives can be used to align registered diversion amounts with realistic assessments of their existing or potential future use, without jeopardizing the needs of existing and future water customers?
- The Niagara water bottling plant controversy in Bloomfield has generated calls and proposed legislation to more strictly regulate this type of operation. Arguments against bottled water include environmental impacts from the manufacture and disposal of plastic bottles, and the concept of Connecticut's Class A drinking water being shipped "out of state." However, these same arguments can also be extended to businesses other than bottled water, such as soft drinks, fruit juices, and breweries. Who will be the judge and jury when it comes to making what are essentially moral judgements in

"The coming new year will commence the fast and furious final phase to draft a State Water Plan, where decisions will be made that will guide policy and future legislation for years to come."

determining what businesses can come to Connecticut? What about embodied water used in the manufacture of goods that are shipped nationally or even internationally? Many different moral debates can be had about industries contributing to the state's economy, whether it be defense contractors, gun manufacturers, soft drinks, alcoholic beverages, and pharmaceuticals. Are we going to pick Connecticut's economic winners and losers with a water plan?

- How should water system interconnections and interbasin transfers be used to meet demonstrated needs that benefit customers, communities, and/or the environment? What are the main obstacles to promoting their implementation? How can the State Water Plan and WUCC plans help foster the orderly growth and interconnection of water systems?
- What will be the ramifications of implementing new streamflow regulations in the next decade? How will public water systems' safe yields and margins of safety be impacted? How will the loss of safe yield be mitigated to meet the needs of public water supply customers?

These are just some of the many issues being considered by the State Water Plan. I urge our members to continue to follow and participate in the process, including stakeholder workshops, public meetings, and committee meetings, all of which are noted on the Water Planning Council's website, *http://ct.gov/water*. In addition, we have many members active on the WUCCs and monitoring regulatory developments on the federal front, including the lead and copper rule. CWWA will continue to keep our members up to date, including regularly scheduled planning meetings to discuss all of the latest developments surrounding these issues and the upcoming legislative session commencing on January 4.

Thanks to all who participated in a highly stimulating and extremely well attended fall conference in October. Finally, congratulations to George Logan of Aquarion Water Company on his election to the Connecticut State Senate. All who know George understand that the citizens of the 17th district will be in excellent hands!



SNEW's Rock Lake reservoir, autumn 2016. Photo by Kathy Fortin.

Tom Loto



Your Membership Is More Important Than Ever

As we close out 2016, we have a number of challenges facing our industry in 2017, including the Connecticut drought and climate change.

Connecticut is suffering from the effects of a serious, two-year drought. Annual rainfall is as much as 24 inches below normal for the year in some areas. As of November 8, 2016, two-thirds of the state is in a D2 Severe Drought with the remaining eastern third of the State in a D1 Moderate Drought, according to the National Drought Mitigation Center in Lincoln, Nebraska. The National Weather Service Climate Prediction Center projects that for the period from October 20, 2016 to January 31, 2017, the drought will persist without any real improvement, so this problem is not going away anytime soon. See the article on page 31 of this issue for more information.

In addition, drinking water systems are already being negatively impacted by climate change in many ways that are expected to worsen over time. Now is the time for utilities to take a broader view of the risks posed to their supply, treatment, and distribution systems. Only with a better understanding can they make well-informed planning, design, and operations decisions that build their resiliency to climate change.

At the same time, there are communities throughout the United States that face even greater challenges because they do not have adequate resources to move forward with critical infrastructure projects. Community Engineering Corps is a great way for students, young professionals, and industry leaders to become involved in their own communities and really make a difference for their neighbors. This is wonderful opportunity to actually see the impact you are making in real time. As a section, we will be looking to support this initiative over the next several years. If anyone is interested in becoming involved or in spearheading this initiative please contact me. For more information on the Community Engineering Corps, please see the article on page 30.

These challenges underscore the importance of membership in CTAWWA. By providing forums, webinars, training, and other information and resources to help you stay up to date on industry challenges and how utilities are responding to these challenges, your membership in CTAWWA is more important than ever. Recognizing this, AWWA has updated its benefit packages to provide more value to its members.

"These challenges underscore the importance of membership in CTAWWA."

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2017 Membership Benefits Upgrade

For the 2017 calendar year, AWWA has updated the benefits packages for organizational members. Organizational members affected by this change are:

- Utilities with more than 5,000 service connections
- Service providers (manufactures and consultants)
- Partner agencies and institutions (government agencies, universities, and nonprofits)

Members in the categories above will get both AWWA Standards and a guaranteed number of individual memberships. Plus Points have been eliminated and replaced with a new benefits package. Packages maximize the previous offerings and are scaled to the size of the organization. An AWWA Standard License is included with varying levels of users. More individual memberships are included in each benefits package.

Small systems benefits for utilities with less than 5,000 service connections (Grade 80) will receive the following benefits:

- Enhanced version of *Let's Talk Safety 2017* which includes:
  - 12 training videos
  - Bonus content on small system issues
- Free training for those servicing populations of 10,000 or less
- Low AWWA dues rate of $300

See *www.awwa.org/2017upgrade* for more information.

I hope that everyone will find the membership improvements made by AWWA for 2017 beneficial, and members take advantage of the additional benefits that they will be receiving. CTAWWA, along with AWWA, is always striving to increase the value of membership.

I am looking forward to a productive 2017 and look forward to seeing everyone at ATCAVE in February. If anyone has any concerns or comments, please do not hesitate to contact me at *tloto@kleinfelder.com.*

American Water Works Association
ConnecticutSection

Listed below is the **proposed 2017–2018 Slate of Officers** for the CTAWWA:

Chair	One-Year Term	Steve Rupar
Vice Chair	One-Year Term	Jennifer Muir
Past Chair [a]	One-Year Term	Tom Loto
Secretary	One-Year Term	Judy Soda
Treasurer	One-Year Term	Rochelle Kowalski
2nd Year Trustee [b]	2nd of a Two-Year Term	Gerry McDermott
1st Year Trustee	Two-Year Term	Tom Barger
National Director [c]	Three-Year Term	Ray Baral

[a] Automatic appointment; no vote required
[b] Serving the second of a two-year term; no vote required
[c] Serving the second of a three-year term

Article VII and VIII of the Section's By-laws govern the election and nominations process and may 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 by email to *kfortin@snew.org*.

If no further nominations are received by April 20, 2017, Kathy Fortin will cast a ballot for the above slate and issue a notice to the membership via the next available issue of the Section magazine.

Other Board Positions for 2017–2018

Trustee at Large 2nd year	Joe Fazzino
Trustee at Large 1st year	Scott Bonett
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.





An Orchestra of **Change**

For many of us, the start of a new year is filled with hope and optimism. Some individuals set out to lose a few extra pounds, increase their salary, stop smoking, or just becoming a better person, a better parent, a better employee than we were the previous year. If you're one of those individuals that start the year with new goals and aspirations, then I sincerely wish you all the best in your endeavors.

And it is in these endeavors that we find the best of what we are. All of us. We find the person inside that we can be. Continuing our education, making our communities stronger, making our work environments stronger, make us stronger. With this in mind, I urge all of you to join one of the 22 committees within the Connecticut Section of the American Water Works Association (CTAWWA). Within this New Year, there are many changes and we must be a part of that. We must be the vehicles of what changes and opportunities lie ahead. In becoming an integral part of those committees, we share ideas and experiences, work collaboratively with our colleagues, and grow professionally and personally each day. This is the New Year. This is the new focus and the compass on which we will determine each of our paths within this industry.

My daughter recently helped build a house for Habitat for Humanity. She spent several weekends hauling scrap, shoveling gravel, and mixing cement. I cannot express how proud I am of her for her dedication and commitment to those who need others. This is the message I share. The American Water Works Association (AWWA) has more than 160 committees and over 3,000 volunteers this year. To be a committee member or a volunteer is no more than just two to four hours a month. It is an opportunity to have your voice heard, to contribute your ideas and insight into an industry, a structure that needs your input to improve. Sometimes we sit in the audience and enjoy the music. But sometimes, we get the instrument. And if all of us can be this orchestra of change and make the music of the future, it will be nothing short of amazing.

Raymond E. Baral Jr.
Director – CTAWWA
Assistant Manager of Water Treatment
The Metropolitan District Commission

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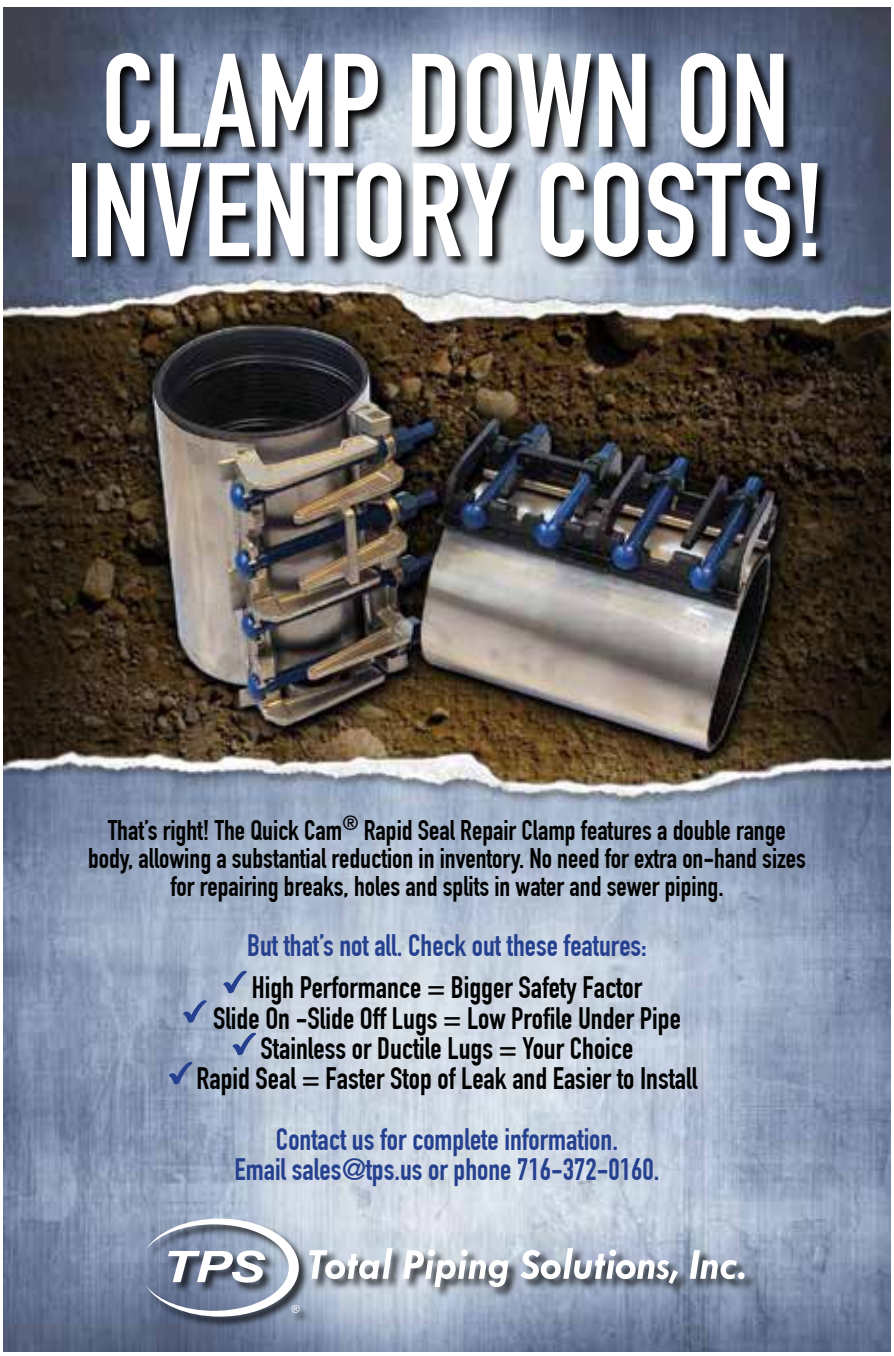
Connecticut's Ban the Box Law

Effective January 1, 2017, employers, including municipalities and other political subdivisions, are prohibited from asking about a prospective employee's prior arrests, criminal charges, or convictions on an initial employment application, unless (1) the employer is required to do so under state or federal law, or (2) the prospective employee is applying for a position for which the employer must obtain a security or fidelity bond or equivalent bond. In addition, Public Act 16-83 allows a prospective employee to file a complaint with the labor commissioner alleging a violation of this prohibition and subjects violators to a $300 per violation civil penalty. The act also allows employees or prospective employees to file a complaint with the state Department of Labor alleging an employer's violation of laws governing employment-related criminal record checks.

To ensure compliance – and avoid litigation – employers must take steps to comply with Connecticut's requirements regarding criminal background requests:

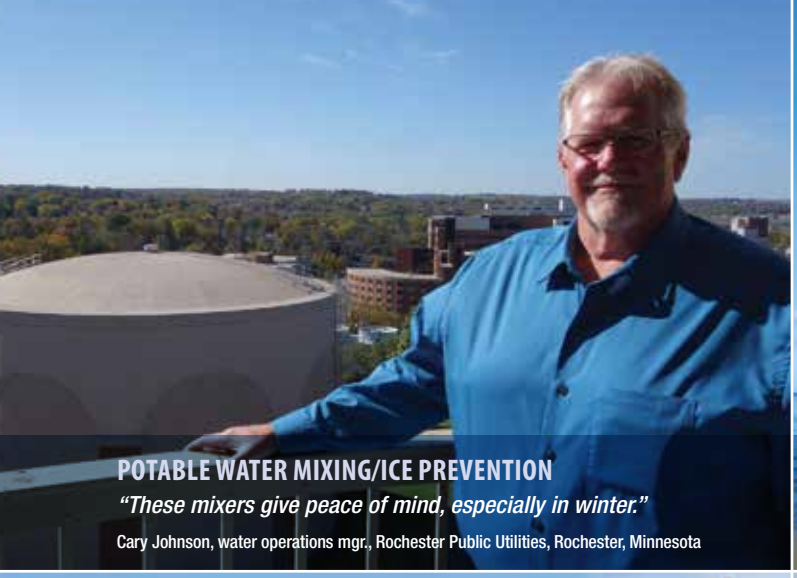
1) Employers are prohibited from asking about prior arrests, criminal charges, or convictions on an initial employment application unless the employer is required to inquire about an applicant's criminal history under state or federal law or the position requires a security, fidelity, or equivalent bond;
2) Employers are prohibited from requiring an employee or job applicant to disclose an arrest, criminal charge, or conviction if the records have been erased under state law;
3) Employers are required to include a notice on job applications stating, among other things, that an applicant is not required to disclose criminal records which have been erased;
4) Employers are prohibited from denying employment to an applicant, or discharging or discriminating against an employee, based solely on such matters or a prior conviction for which the employee or applicant received a provisional pardon or certificate of rehabilitation; and
5) Employers are required to comply with certain requirements related to the confidentiality of a job application's criminal history.

Employers should also consider conducting a review of their current pre-employment screening practices to ensure compliance with federal, state, and local laws, including the federal Fair Credit Reporting Act.



Minimum Wage Increase

Effective January 1, 2017, the minimum wage is $10.10 per hour, up from $9.60 per hour.



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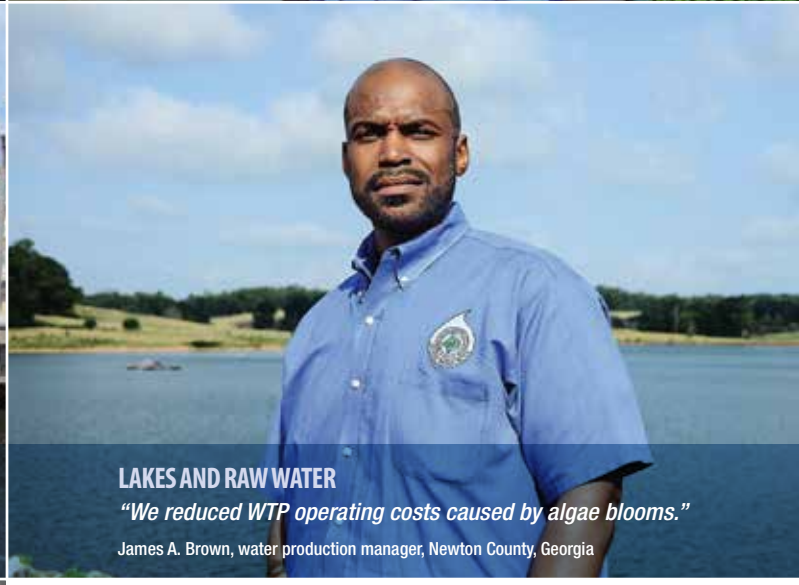
Tony Linder, WTP division chief, Dept. of Water Supply, County of Maui, Hawaii



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John Willis, wastewater plant supervisor, Ventura, California



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James A. Brown, water production manager, Newton County, Georgia



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CTAWWA's Education & Program Committee

Providing Technical Knowledge Transfer to Water Professionals

In September 2016, the Education and Program Committees merged to bring you their collective best in both educational opportunities and technical programs. The goal of this 12-member team is to provide the Connecticut Section of the American Water Works Association (CTAWWA) members with a range of hot topic courses and accompanying training contact hours (TCH) credits so that water system operators can retain their licenses by attending these programs. Courses frequently focus on regulatory issues as well as source, treatment, and distribution-related topics such as storage tanks and pump design and performance.

The Education & Program Committee also works collaboratively with the New England Water Works Association (NEWWA) to deliver technical courses in the spring (typically February through June) and fall (typically September through January). The NEWWA conducts a minimum of 10 courses throughout a given year. The committee also works with the Department of Public Health (DPH) to obtain the necessary contact hour approvals for the various technical programs that are offered.

The Education & Program Committee's activities during the course of a year include the following:

- Conduct semi-annual meetings for planning and coordinating the spring and fall classes for contact hours and professional development in both distribution and treatment
- Coordinate with the NEWWA for course offerings for the CTAWWA to provide members with a variety of courses
- Discuss and develop courses offered by CTAWWA members and obtain contact hour approval from the DPH
- Conduct meetings with the NEWWA to coordinate course offerings and further develop the partnership with the CTAWWA
- Review submitted abstracts, solicit abstracts, and assist with program development for various conferences, including the Water Quality & Treatment Symposium and Fall Conference
- Conduct DPH operator certification reviews
- Continue to encourage and support other committees with the CTAWWA to develop and present course offerings related to their areas of expertise
- Continue to encourage and solicit the development of technical articles to be submitted to *InFlow-Line* magazine for publication consideration
- Continue to recruit new members to the committee

The Education & Program Committee also plans the technical program for the annual joint CTAWWA/CWWA conference in May, as well as the Annual Technical Conference and Vendor Expo (ATCAVE) in February. Work is already underway to find and select engaging presenters for both events. Committee members also call technical sessions to order, introduce the speakers, and serve as moderators throughout the sessions. The committee prides itself on delivering quality training opportunities for the members of the water profession in Connecticut.



For more information on this committee, go to *http://ctawwa.org/content.php?page=Education_Committee.*
If you are interested in joining the committee, please contact Co-Chair Peter Grabowski at *pjgrabowski@tighebond.com* or 413-572-3234, or Co-Chair Scott Bonett at *sbonett@hazenandsawyer.com* or 860-257-1067.

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CWWA/CTAWWA Fall Conference – *A Success*



Ingrid Jacobs, Associates Chair



Larry Bingaman, Keynote Speaker

More than 175 water industry professionals crowded the Aqua Turf this year for the CWWA/CTAWWA Fall Conference. Attendees heard about a wide range of issues affecting Connecticut's water industry from public officials and industry experts.

Addressing Lead in Drinking Water
John Herlihy of Aquarion Water Company and Mandy Smith of the state Department of Public Health Drinking Water Section teamed up to present on state and federal initiatives to address lead issues in drinking water.

State Water Plan & WUCCS
An update on the completion of the Water Utility Coordinating Committee (WUCC) process was provided by David Murphy of Milone & MacBroom. Kirk Westphal and Elaine Sistare of CDM Smith, Inc. updated attendees on the development of the State Water Plan.

Diversion Regulations – DEEP's Proposed Changes
Deputy Commissioner Michael Sullivan and Bureau Chief Betsey Wingfield presented on DEEP's proposed changes to the water diversion regulations. The proposed regulations will eliminate the exemption from the diversion permitting process for extensions within an Exclusive Service Area.

Industry Response to DEEP's Proposed Changes
David Radka, Connecticut Water Company, and Peter Galant, Tighe & Bond, outlined concerns regarding the impact of DEEP's proposed changes to the diversion regulations on public water supplies.




Deputy Commissioner Mike Sullivan of DEEP




Mandy Smith of DPH



Photos by Kathy Fortin

Climate Change & Storm Resiliency of Water Utilities

James O'Donnell, Ph.D., Executive Director, CT Institute for Resilience & Climate Adaptation (CIRCA), and Christine Kirchhoff, Ph.D., University of Connecticut, addressed issues relating to climate change and challenges for the state's water and wastewater utilities.

The Higher Purpose of Water

Larry Bingaman, President & CEO of the Regional Water Authority provided the keynote speech, "The Higher Purpose of Water," touching on the importance of aligning business practices in ways that will elevate humanity for the greater good.

Presentations are available on CWWA's website at *www.cwwa.org.*

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CWWA's 2017 Legislative Outlook

When the legislature convenes on January 4, lawmakers will be faced with a projected $1.5 billion dollar budget deficit. Governor Dannel Malloy has stated that he does not intend to pursue major tax hikes to address the budget shortfall but will look to further reduce spending and state agency staff. State agencies were asked to provide proposals to reduce their budgets by 10% and increase revenues.

What does this mean for water companies?

Staff reductions

Vacant positions in the Public Utilities Regulatory Authority (PURA) would be eliminated under the budget options submitted by the state Department of Energy & Environmental Protection (DEEP). This will result in delays in utility docket hearings and rate cases as well as a reduction in support staff for the State Water Plan and utility operations. Staff was already reduced across state agencies in 2016; this is expected to affect permitting processes and other regulatory functions. DEEP has indicated that it intends to rely more heavily on the Licensed Environmental Professional program to fill the gaps in staffing.

Fee increases

The state Department of Public Health (DPH) hopes to generate more than $1.5 million per year with a new fee for regulating and overseeing water companies. Other agencies are also expected to propose fee increases to cover administrative costs.

Improving regulatory efficiencies

Are there ways that the state can streamline regulatory processes and reduce unnecessary requirements to address budget issues? CWWA is discussing proposals to:

- Streamline the format and approval process for Water Supply Plans required to be filed by water companies;
- Exempt minor/routine activities from DPH's Change of Use permits;
- Expedite the process for facilitating water system acquisitions to reduce time and transaction costs;
- Work with DEEP to reauthorize and develop new General Permits; and
- Require state agencies to determine whether new regulations can be implemented within existing staff resources.

Promoting energy efficiency & water conservation

The state also needs to identify ways of assisting water utilities in reducing costs to keep rates reasonable. Many water utilities are incorporating energy efficiency and water conservation measures in an effort to do just that. CWWA recommendations include:

- Expand opportunities for water utilities to use Virtual Net Metering (VNM) to reduce energy costs and consumption by authorizing all water companies to utilize VNM and increasing the cap on VNM;
- Recognizing that treating and distributing public water supplies is very energy intensive, ensure that the state's Comprehensive Energy Strategy includes strategies for assisting water companies in utilizing renewable energy.

CWWA is also including recommendations in its 2017 Government Affairs Agenda regarding the state's efforts to develop a State Water Plan and other issues identified by our board and Legislative Committee.

If you are a CWWA member and interested in serving on CWWA's Legislative Committee or if you have ideas for legislative recommendations, please contact Betsy Gara, CWWA, at *gara@gmlobbying.com.*



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FEBRUARY 28, 2017 | 8:30 AM TO 3:30 PM | RADISSON, CROMWELL, CONNECTICUT

Get the most out of ATCAVE 2017 by earning Training Contact Hours (TCH).

Please see the registration details that follow at the end of this section.

Join us for coffee/pastries and visit the Vendor Expo before the morning technical sessions begin.
The 2016 Vendor Expo is your chance to see the latest in water supply-related technologies and equipment from vendors and specialists in the water supply industry. Free admission for conference attendees! See page 27 for more details.

ATCAVE Luncheon: 11:30 am – 1:30 pm
Between the morning and afternoon technical sessions, tour the Vendor Expo, participate in the Vendor Booth Raffles (new this year), and enjoy the ATCAVE Luncheon Buffet.

CONFERENCE AGENDA

SESSION A

Tuesday, February 28, 2017

WATER SUPPLY AND TREATMENT	
Session A – 2 TCH 8:30–10:30 am	
	Water Treatment/Quality
8:30–9:15 am	**Reservoir Management Planning for the Future: Streamflow Regulations and Drought Management Planning** *Christina Jones, P.E., Project Engineer, Tighe & Bond* *Peter Galant, P.E., Vice President, Tighe & Bond*
9:15–10:00 am	**Water Quality Goal Setting Through Review of Current and Potential Future Drinking Water Regulations** *Anne Malenfant, P.E. Technical Specialist, CDM Smith* *Al LeBlanc, P.E. Project Manager, CDM Smith*
10:00–10:30 am	**Connecticut Department of Public Health: Regulatory Topic**
Session A Continued – 2 TCH 1:00–3:00 pm	
1:00–1:40 pm	**For the Matter of Clarification, Which is Which?** *Richard Ross, P.E., Product Manager, East & North Central Westech Engineering*
1:40–2:20 pm	**New CT-DEEP Dam Emergency Action Plan Requirements: The Deadlines, Content, and Science** *David L. Azinheira, Tighe & Bond* *Daniel F. Valentine, P.E. Tighe & Bond*
2:20–3:00 pm	**The Good, The Bad, and The Ugly** **– Filter Asset Management Plans Proposed at Three WTPs in Hanover, MA** *Margaret McCarthy, P.E., Weston and Sampson* *Andrew Taylor, Water Service Professionals*



CONFERENCE AGENDA *continued*

SESSION B
Tuesday, February 28, 2017

DISTRIBUTION AND STORAGE	
Session B – 2 TCH 9:00–11:00 am	
9:00–9:40 am	**Storage Tank Maintenance: Coating Failure and the Structural Repair Aftermath** *Mark Fois, P.E., Senior Engineer* *Aquarion Water Company of Connecticut*
9:40–10:20 am	**Construction of a New Pressure Zone in Southington, CT** *Sarah H. Bounty, EIT* *Tighe & Bond*
10:20–11:00 am	**Best Practices of Unidirectional Flushing (UDF): Improve Water Quality and Reduce Customer Complaints** *David Lewis, Business Development Manager* *Wachs Water Services*
Session B continued – 2 TCH 1:30–3:30 pm	
1:30–2:00 pm	**Connecticut Department of Public Health: Lead Treatment and Exceedances**
2:00–2:45 pm	**Building a Service Line Inventory** *Sarah DeMezzo, Sr. GIS Analyst* *Aquarion Water Company of Connecticut*
2:45–3:30 pm	**The True Value of a Pipeline as an Asset** *Roy W. Mundy II, P.E., Eastern U.S. Specifications Engineer* *McWane Ductile*

SESSION C
Tuesday, February 28, 2017

MANAGEMENT	
Session C – 2 TCH 9:00–11:00 am	
9:00–9:30 am	**Connecticut Department of Public Health: Hot Topics**
9:30–10:15 am	**Building an Asset Management Framework** *Matt Manchisi, P.E., Northeast Asset Management Lead* *Hazen and Sawyer*
10:15–11:00 am	**People** *Michael A. Elliott, P.E., Manager, Water Supply & Treatment* *First District Water Department*
Session C continued, 2 TCH 1:30–3:30 pm	
1:30–2:10 pm	**Tapping Talent for the Utility Industry – Public Utility Management Degree Program** *James Flynn, VP Operations* *South Central Connecticut Regional Water Authority*
2:10–2:50 pm	**Construction Communications for Customers and Non-Customers** *Dan Meaney, APR, Director of Corporate Communications* *Connecticut Water Company*
2:50–3:30 pm	**Creating a Culture of Safety** *Rose M. Gavrilovic, P.E. Director of Capital Planning & Delivery, South Central Connecticut Regional Water Authority* *Joe Antinozzi, Safety Administrator, South Central Connecticut Regional Water Authority* *Orville A.D. Kelly, Project Manager, South Central Connecticut Regional Water Authority*

ATCAVE 2017

American Water Works Association ConnecticutSection



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ATCAVE Technical Training Registration Form

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1) Complete the registration information above, including name and contact information (phone and/ or email address).
2) Select your sessions below. Please be sure to check the appropriate box for each session selected and your registration type (member, non-member, or small system).
3) Complete the payment section on the second page of this registration form.
4) Return to the address provided on the second page with appropriate payment.
5) Mail and email REGISTRATION DEADLINE is Friday, ***FEBRUARY 19, 2017.***
6) Cancellation Policy: All cancellations must be received February 21 in order to be eligible for a refund.

Registration Note: Lunch is included with Member and Non-Member registrations.
Small Systems[1]**:** CTAWWA offers limited FREE conference registration to small water systems. This offer does not include lunch. A lunch ticket must be purchased separately.
Group Discounts: Group Discounts are available. Please contact Romana Longo at 860-604-8996 or *longoctawwa@gmail.com*.

Section	Topics	CEUs	Time	Type	Single Section Price	Select
WATER QUALITY AND TREATMENT						
A-1	**Water Supply and Treatment** . Reservoir Management Planning for the Future: Streamflow Regulations and Drought Management Planning . Water Quality Goal Setting through Review of Current and Potential Future Drinking Water Regulations . Connecticut Department of Public Health: Regulatory Update	0.2	8:30 am to 10:30 am	Member	$110.00[2]	☐
				Non Member	$135.00[2]	☐
				Small Systems[1]	$0.00[3]	☐
A-2	· For the Matter of Clarification, Which is Which? · New CT-DEEP Dam Emergency Action Plan Requirements: the Deadlines, Content, and Science · The Good, The Bad, and The Ugly – Filter Assessment Plans Proposed at Three WPTs in Hanover, MA	0.2	1:00 pm to 3:00 pm	Member	$110.00[2]	☐
				Non Member	$135.00[2]	☐
				Small Systems[1]	$0.00[3]	☐
DISTRIBUTION AND STORAGE						
B-1	**Distribution and Storage** · Storage Tank Maintenance: Coating Failure and the Structural Repair Aftermath · Construction of a New Pressure Zone in Southington, CT · Best Practices Unidirectional Flushing (UDF): Improve Water Quality and Reduce Customer Complaints	0.2	9:00 am to 11:00 am	Member	$110.00[2]	☐
				Non Member	$135.00[2]	☐
				Small Systems[1]	$0.00[3]	☐
B-2	· Connecticut Department of Public Health: Lead Treatment and Exceedances · Building a Service Line Inventory · The True Value of Pipeline as an Asset	0.2	1:30 pm to 3:30 pm	Member	$110.00[2]	☐
				Non Member	$135.00[2]	☐
				Small Systems[1]	$0.00[3]	☐

Please continue with ATCAVE Registration on the next page.

ATCAVE 2017

American Water Works Association ConnecticutSection



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ATCAVE Technical Training Registration Form *continued*

Section	Topics	CEUs	Time	Type	Single Section Price	Select
MANAGEMENT						
C-1	**Management** . Connecticut Department of Public Health: Hot Topics . Building an Asset Management Framework . People	0.2	9:00 am to 11:00 am	Member	$110.00[2]	☐
				Non Member	$135.00[2]	☐
				Small Systems[1]	$0.00[3]	☐
C-2	. Tapping Talent for the Utility Industry - Public Utility Management Degree Program . Construction communication for Customers and Non-Customers . Creating a Culture of Safety	0.2	1:00 pm to 3:30 pm	Member	$110.00[2]	☐
				Non Member	$135.00[2]	☐
				Small Systems[1]	$0.00[3]	☐
[2]Full Day Registration: If you register to attend both a morning and an afternoon session – Members Enter and Pay $160 and Non-Members Enter and Pay $210 for the Subtotal				Small Systems[1] **Subtotal: $**	$0.00[3]	☐
[3]Lunch is not included with the Small System FREE Conference Registration. A Lunch Ticket must be purchased separately.						
SMALL SYSTEM[1,3] and EXPO ONLY LUNCH TICKET(s) Quantity:_____ @ $35.00 each					Total Lunch Ticket Cost:	

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Member: A CTAWWA member (individual, utility, or corporate).
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[1]**Small System:** An independently owned & operated water system that serves a population <1,000 people.

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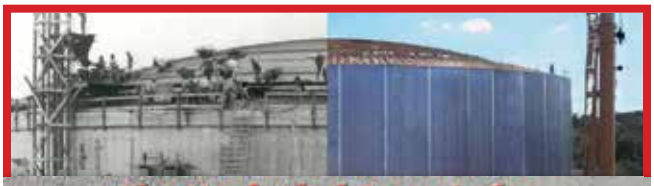
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Assisting Underserved Communities

In 2014, the Community Engineering Corps® (CECorps) was initiated by AWWA, the American Society of Civil Engineers (ASCE), and Engineers Without Borders USA (EWB-US) to address the needs of communities in the U.S. that are struggling to pay for necessary infrastructure upgrades to protect the public health and safety of their residents. CECorps coordinates members of the three organizations to volunteer their time and expertise on projects to assist these communities.

Project teams have access to quality assurance/quality control systems and educational resources to ensure that projects are done in a manner that is appropriate to the regulatory environment within the United States. Community Engineering Corps applies EWB-USA's international approach to domestic water and wastewater systems, roads, and other infrastructure projects to assist underserved communities.

Why volunteer with CECorps?

- This is a great opportunity to volunteer to help communities in the United States – the current challenge is matching communities and interested volunteers with the appropriate expertise.
- CECorps is a career-building opportunity for students and young professionals.
- Individual volunteer opportunities are available as part of committees that serve the operations of the program.
- CECorps is a great way for experienced engineers to share their knowledge with the next generation.
- The CECorps program is not intended to compete with local engineering firms. The Domestic Application Review Committee reviews every community application to ensure the community qualifies and is unable to pay for the requested services.
- CECorps is a domestic program and solicits volunteers for hands-on engineering work. Water For People works abroad and volunteers mostly focus on fundraising. By launching the CECorps program, AWWA wanted to expand the opportunities our members have to engage while also attracting new members to join and participate.

All volunteers are covered by liability insurance. In order to be covered while working on an approved project, volunteers must be an active member of ASCE, AWWA, or EWB-US.

For more information, please contact *cecinfo@ewb-usa.org* and visit *www.communityengineeringcorps.org.*





State Issues First-Ever

DROUGHT WATCH

SNEW's City Lake reservoir, autumn 2016. Photo by Kathy Fortin.

In late October, Connecticut Governor Dannel P. Malloy issued the state's first-ever Drought Watch, urging residents, businesses, municipalities, and state agencies to voluntarily reduce water consumption by 15%. The Drought Watch applies to Fairfield, Hartford, Litchfield, Middlesex, New Haven, and Tolland Counties. New London and Windham Counties remain in a Drought Advisory that calls for a voluntary reduction in water consumption of 10%.

The Connecticut Interagency Drought Workgroup, which consists of state officials from the Department of Public Health, Department of Energy and Environmental Protection, Department of Agriculture, Office of Policy and Management, and the Department of Emergency Services and Public Protection, indicated that a Drought Watch declaration was warranted based on an assessment of various indicators, including precipitation, stream flows, groundwater levels, reservoirs status, soil moisture, vegetation, and fire danger conditions.

By late November, 20 water companies requested voluntary reductions in water consumption or imposed mandatory water use restrictions. Unfortunately, precipitation levels are expected to continue to be below normal in the upcoming months.

"Connecticut's ongoing drought underscores the importance of getting it right when it comes to planning Connecticut's water future," said John Hudak of the Regional Water Authority and CWWA President. "Given the high variability and uncertainty associated with water quality and quantity, climate change, and other factors, water utilities need the ability and flexibility to monitor and adapt as trends are realized."

"Back in 2001, I completed a design for an emergency intake for a major water supplier in southeastern Connecticut. Connecticut's reputation as a water-rich state was a major inhibitor to the completion of this project, which took over 15 years. Given Connecticut's continued drought situation, the project will be helpful in supporting public water supply needs," said Tom Loto of Kleinfelder and CTAWWA Chair.

In developing Connecticut's State Water Plan, the state should recognize the need to address potential shortages in public water supplies and balance those supplies while minimizing the need for the development of new or expanded water sources which may negatively impact the environment.

"The plan must facilitate the use of interconnections to provide water utilities with the flexibility to balance supply and demand," explained Hudak. "It should also ensure the continued use of registered and permitted diversions to meet existing and future customers' needs." The establishment of these interconnections to serve the public in Connecticut should be encouraged to move water between public water systems and not inhibited by regulatory processes and overly burdensome permit conditions.

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DEEP Updating Connecticut's Comprehensive ENERGY STRATEGY

In 2013, Governor Dannel P. Malloy unveiled a three-year Comprehensive Energy Strategy (CES) for Connecticut aimed at lowering energy costs and better protecting the environment and natural resources.

Recognizing that treating and distributing public water supplies is very energy intensive, the 2013 CES notes that "a 2009 EPA report on water utilities found that globally, water utilities' biggest cost is energy, and that those costs can represent as much as 65% of a utility's annual budget."

This isn't surprising, because energy is embedded in all stages of the water supply and treatment cycle: pumping, treatment, distribution, and recycling. According to the Alliance for Water Efficiency, energy used for water supply and treatment constitutes:

- 19% of California's electric energy load
- 12% of Toronto's electric energy load
- 13% of national electric energy load (estimated)

To reduce costs and improve energy efficiency, Connecticut's water companies are embracing efforts to use renewable energy. For example, water utilities are installing solar technology, wind power applications, energy efficient lighting, exploring fuel cells, hydropower, and taking advantage of the state's Renewable Energy Credit (ZREC) program and other energy efficient programs.

The state Department of Energy & Environmental Protection (DEEP) is now in the process of updating the CES. CWWA believes the 2016 CES should focus greater attention on assisting water companies in using renewable energy to improve energy efficiency and reduce the state's carbon footprint and has recommended the following:

Virtual net metering

Under current law, although municipal water and sewer departments are eligible to utilize virtual net metering (VNM) 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.

In addition, the $10 million statutory cap on VNM should be increased to ensure that water utilities can move forward with eligible projects. Given the environmental and economic benefits to the state and its residents in improving energy efficiency, the state should ensure that eligible water utility VNM projects are permitted to move forward.

CWWA also supports efforts to expand eligibility for VNM to certain hydroelectric projects owned by public water utilities. Currently, VNM is only available for hydroelectric projects built after 2003. Water utilities that have operational hydroelectric facilities built prior to de-regulation should be grandfathered and allowed to participate in VNM by allocating this power to other accounts.

Promoting conservation & efficiency

Water utilities are experiencing declining revenues for a variety of reasons, including reduced demand for water due to more efficient plumbing fixtures and appliances, conservation and demand management measures and the recession, which has resulted in industrial layoffs and home foreclosures. At the same time, costs associated with treating and distributing water and repairing and replacing aging infrastructure as well as taxes and fees are increasing.

Fortunately, the legislature adopted Public Act 13-78, which authorizes rates and charges for private water companies that promote water conservation. The law allows private water companies to implement a water revenue adjustment mechanism to ensure recovery in rates of what was authorized in their last rate case. This eliminates financial disincentives that made it difficult for water companies to promote water conservation. In addition, the law called for PURA to initiate a docket to clearly identify water and energy conservation programs that are eligible for recovery by a private water company in a general rate case. This will go a long way in allowing private water utilities to move forward with efforts to promote water conservation and energy efficiency.

Water infrastructure & conservation adjustment mechanism

The Water Infrastructure and Conservation Adjustment (WICA) program allows private water utilities to

recover certain capital investments between rate cases to offer more support for the water utilities to repair and replace aging infrastructure to reduce leaks and improve the efficiency of the distribution system. Recognizing this, the state legislature has adopted legislation to increase the maximum amount of WICA to 10% and expand WICA eligible projects to include the purchase of energy efficient equipment or investments in renewable energy supplies and capital improvements necessary to achieve compliance with stream flow regulations. Ensuring that these policies are fully reflected and supported in the CES is critical.

Assist municipal & regional water utilities in adopting energy efficiency measures

CWWA recommends that the state explore opportunities to revise the Drinking Water State Revolving Fund (DWSRF) to ensure that energy efficiency projects and investment in renewable energy and capital improvements necessary to achieve compliance with the state's stream flow regulations are eligible for grants and loans under the DWSRF program administered by the state Department of Public Health.

The 2016 CES is expected to be finalized by the end of the year. For more information, visit *www.ct.gov/deep.*

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EPA Releases White Paper on Lead and Copper Rule Revisions

The Environmental Protection Agency (EPA) recently released a White Paper on the upcoming Lead and Copper Rule Revisions to inform stakeholders about the options EPA is considering as part of its effort to update the Rule to further reduce exposure to lead from drinking water. An updated rule is not expected to be officially proposed until 2017.

The paper includes examples of regulatory options that the EPA is evaluating, including:

- Lead service line replacement
- Improved optimal corrosion control treatment requirements for utilities
- A health-based benchmark for household-level interventions for lead exposure
- The potential role of point-of-use filters
- Clarifications or strengthening of tap sampling requirements
- Possible compliance site changes
- Increased transparency, and
- Enhanced public education requirements

The white paper also outlines the challenges, opportunities and analytical issues presented by these options. For a full understanding of the issues and recommendations, please refer to the "Report of the Lead and Copper Working Group to the National Drinking Water Advisory Council," August 24, 2016.

Managing Cyanotoxins in Drinking Water



Harmful algal blooms in surface waters can produce toxins known as cyanotoxins, which can be harmful to humans and animals. The EPA has released three tools to help communities prepare for and reduce risks from cyanotoxins in drinking water. These tools include:

1) A template and example plans for cyanotoxin management in drinking water;
2) A cyanotoxin drinking water treatment optimization document; and
3) A cyanotoxin risk communication toolbox.

These materials provide public water systems with examples and ready-to-use templates to tailor to their systems, as they see appropriate, to aid in managing and communicating the risks of cyanotoxins in drinking water. For more information, please visit the EPA's website: *www.epa.gov/ground-water-and-drinking-water/cyanotoxins-drinking-water.*

The Department of Public Health (DPH), Drinking Water Section (DWS), in collaboration with the DPH State Public Health Laboratory, is continuing in its efforts to assist surface water public water systems with the presence of harmful algal blooms (HABs) which may contain the presence of two specific cyanotoxins – microcystin and cylindrospermopsin. All surface public water systems with any concerns regarding HABs may contact the DWS as a limited amount of free testing for cyanotoxins will be offered on a case-by-case basis by the DPH State Public Health Laboratory. Please visit *www.ct.gov/dph/cwp/view.asp?a=3139&q=438906* for the State Public Health Laboratory sample submittal forms and further information regarding harmful algal blooms and cyanotoxins.

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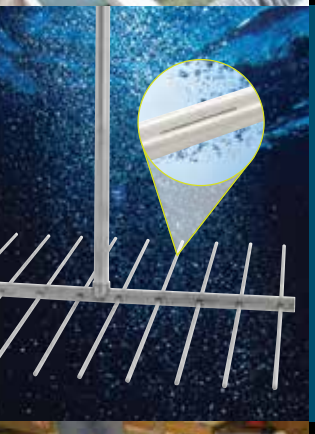
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THE BACKUP TO THE BACKUP: Always Have a Contingency Plan

By Darleen P. Buttrick, P.E., Project Manager – Tighe & Bond, and Rose M. Gavrilovic, P.E., Director of Capital Planning and Delivery – South Central Connecticut Regional Water Authority



In 2015, when the South Central Connecticut Regional Water Authority (RWA) upgraded their Lake Saltonstall Water Treatment Plant (WTP) Raw Water Pump Station, the project required several prolonged shutdowns to the water treatment plant and pump station to complete the necessary electrical upgrades. These upgrades included pulling more than 2,000 feet of new medium voltage cable from the WTP to the pump station, crossing under Amtrak's railroad lines and under an overpass of a major highway. In addition, there was the cutover to the new electrical equipment at the pump station, which included a new 5,000-volt switchgear, 500 kVA transformer, main circuit breaker, and power panels.

The Lake Saltonstall WTP is the primary source of water for approximately 50,000 customers in Branford, East Haven and the East Shore portion of New Haven, and is considered one of the RWA's critical facilities. In order to ensure uninterrupted delivery of water to customers, a plan was needed to deliver water to the service area during the scheduled shutdowns. The completion of a separate project in 2014 (construction of 11,550 feet of 30-inch ductile iron water main) interconnected the RWA's Saltonstall and New Haven service areas. This interconnection would provide the means for the uninterrupted service necessary to complete this project.

The interconnection provides redundancy to the two service areas.

Photo Above: *Construction of the bypass pumping system*
Left: *"The contingency plan" – 300-kW generator ready and waiting*

An underground chamber with piping and pressure-reducing capabilities and above-grade points of connection were constructed at the interconnection location. Water can flow by gravity from the Saltonstall to New Haven service area and flow can also be reversed, to serve the Saltonstall area from the New Haven service area. This flow reversal, however, requires pumping to the higher pressure gradient of the Saltonstall service area. The RWA purchased a bypass pumping system to use at this location, as well as other locations in the system, as needed. The plan during construction included the setup of the temporary bypass pumping system, with HDPE piping connections provided by the contractor. The temporary piping was ultimately purchased by the RWA for use at this and other facilities.

In addition to the bypass pumping plan, a contingency plan was developed and implemented as an emergency backup to the temporary pumping system in the event that problems or difficulties were experienced, such as piping or pump failure or issues in the distribution system associated with flow reversal. The contingency plan included the provision of a 300-kW temporary generator at the raw water pump station site, with temporary wiring to a single pump starter. This set-up was isolated from the new system that was being commissioned at the time and would allow delivery of water from the raw water pump station to the treatment plant in the event the bypass system could not be used.

The importance of the plan became obvious when, one morning in November 2015, the bypass pump experienced a failure due to surges on the suction side of the pump. Thousands of gallons of water were discharged from the pump before the set-up was isolated from the system. Fortunately, because the leak was on the suction side of the pump, the failure did not result in emptying the storage tank in the Saltonstall service area. The bypass system was isolated, and the contingency plan was initiated while the necessary repairs were made.

Overall, as water providers know, when the delivery of water to customers is at stake, it is critical to have that extra level of contingency planning in place. Unfortunately, oftentimes Murphy's Law will prevail, and the value of the contingency plan will be apparent to the utility but, fortunately, not to its customers.







SOURCE TO Sea

On September 24, 2016, the Metropolitan District Commission (MDC) hosted the annual Source to Sea Clean-Up held at the Wethersfield Cove for the 16th straight year.

The Source to Sea Clean-Up of the Connecticut River and its tributaries is a four-state event coordinated by the Connecticut River Watershed Council, a non-profit advocacy organization working to conserve and protect water quality, habitat, and recreational access across the entire Connecticut River Watershed.

Approximately 100 volunteers came out for the event including MDC staff, environmental organizations, students, cub scouts, church groups, as well as local businesses.

Trash bags of debris and larger items such as tires and car parts collected by volunteers and removed from the Cove area filled a dumpster totaling 1.4 tons.

After the event, Communications Administrator Julie McLaughlin accepted an award on behalf of the MDC from the Connecticut River Watershed Council for "outstanding leadership and service to our rivers."

"The MDC is proud to once again work with residents, local businesses, watershed groups, schools and others to foster cleaner local waterways," said MDC CEO Scott Jellison. In addition to MDC, other water utilities and organizations from across the state participated in Source to Sea events to help protect Connecticut's water resources.



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Developing a Balanced State Water Plan



CWWA members are actively participating in the state's efforts to develop a comprehensive State Water Plan, serving on the Water Planning Council (WPC) Steering Committee, the WPC Advisory Group (WPCAG) and various WPC Work Groups, and attending numerous meetings and workshops to weigh in on how issues under discussion may affect the state's public water supplies.

"First and foremost, the State Water Plan must ensure the continued availability of safe, reliable, quality public water supplies to address the public health, safety and economic development needs of this state," said Betsy Gara, Executive Director of CWWA at a WPC Workshop in Norwich. She also identified additional elements that should be included in a State Water Plan to ensure that it is appropriately balanced, as called for by the legislature. The plan must:

- Rely on objective data and scientific methodologies, including identifying data gaps and recommended approaches for obtaining data;
- Facilitate the use of interconnections which serve a vital purpose in a) avoiding environmental impacts of new source development/expansion; b) addressing water problems/ shortages; c) facilitating compliance with stream flow regulations to support aquatic life and ecosystems; d) balancing supply with demand; and e) fostering economic development consistent with state and local conservation and development plans;
- Preserve the use of registered and permitted diversions, recognizing that water utilities have made long-term investment and planning decisions based upon the availability of registered and permitted diversions to meet existing and future customer needs;
- Protect water quality by prohibiting the use of Class B water for potable water uses; and
- Focus on changes in policies that focus on ways that address impaired rivers and streams.

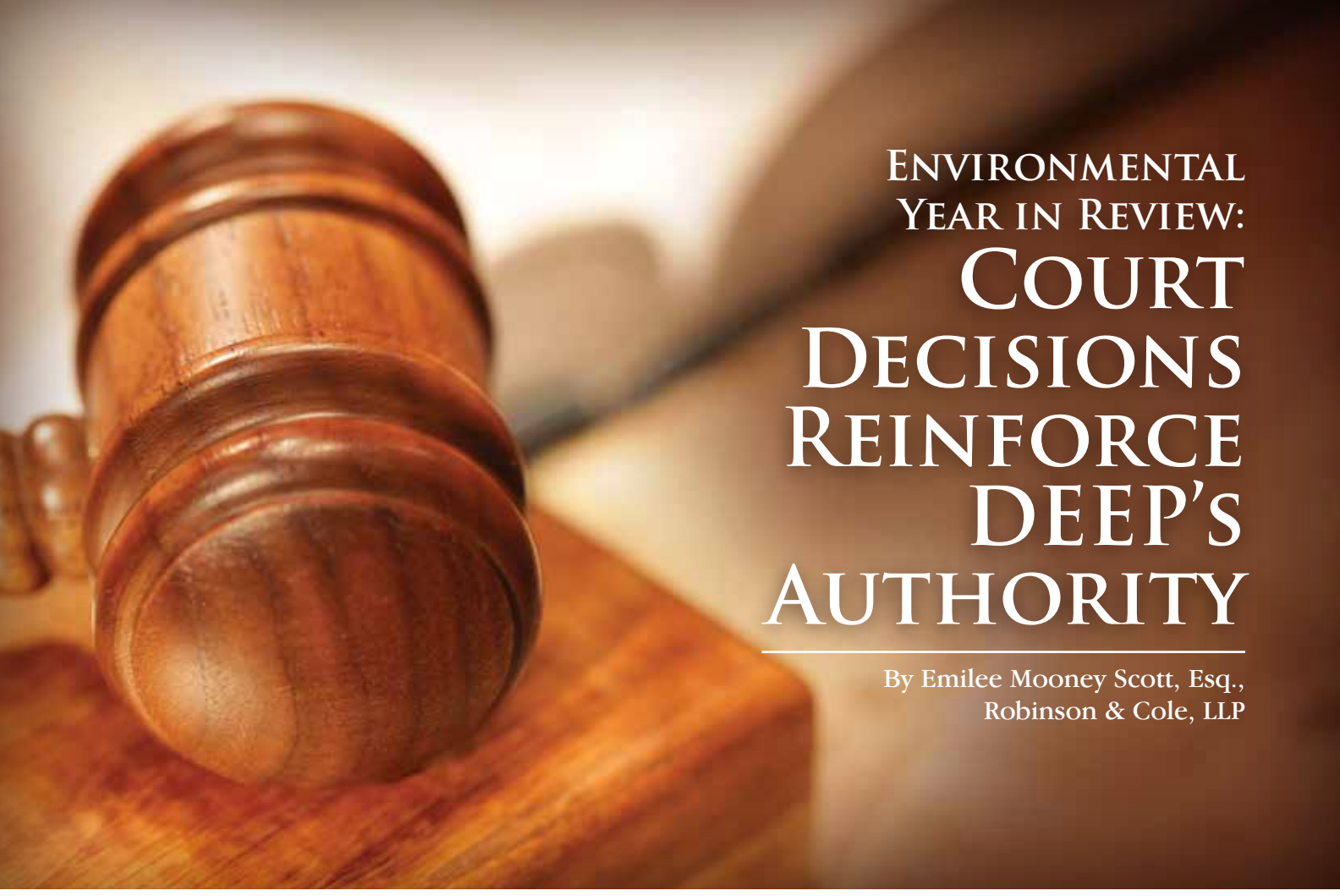
David Radka of Connecticut Water Company and a member of the WPC Work Group on Other State Plans stated that the State Water Plan should recognize upfront that it will preserve existing water rights. Other states have emphasized the need to preserve existing water rights, which has avoided the plan from getting bogged down in disputes.

At a workshop in New Britain, CWWA President John Hudak, of the South Central Connecticut Regional Water Authority, mentioned a number of issues that must be considered In developing a State Water Plan, including 1) consideration of how climate change will impact public water supplies; and 2) the need to identify equitable funding mechanisms to ensure there are adequate resources to implement the State Water Plan.

CWWA encourages all of its members to attend workshops and public hearings and comment on how the issues being discussed will affect their ability to meet the needs of customers, now and in the future.

Contact Betsy Gara at *gara@gmlobbying* for more information on how to get involved. Working together, we can make a difference!





Environmental Year in Review: Court Decisions Reinforce DEEP's Authority

By Emilee Mooney Scott, Esq.,
Robinson & Cole, LLP

This year's theme is agency discretion. In sharp contrast to last summer's *Tilcon Connecticut v. Commissioner of Environmental Protection*, which placed significant checks on the ability of the Connecticut Department of Energy and Environmental Protection (DEEP) to request extensive (and excessive) information from permit applicants, this year's cases dramatically reinforce DEEP's authority.

In the last year, each level of Connecticut's courts has issued a significant decision in DEEP's favor, generating significant uncertainty for the regulated community.

- Last October the Supreme Court gave DEEP, and the Remediation Standard Regulations (RSRs),a victory with *Commissioner of Environmental Protection v. Underpass Auto Parts* (Oct. 13, 2015). In an enforcement action brought under the Water Pollution Control Act and Aquifer Protection Act, a trial court found that the defendants (two used-auto-parts businesses and their owner) had failed to comply with the applicable stormwater general permit, had discharged substances to the waters of the state and had polluted waters of the state. Given the defendants' cooperation and limited means, the trial court ordered a more modest remedial program instead of DEEP's costly three-phase remedial proposal. The trial court ordered Underpass Auto Parts Co. to pay fines and retain a licensed environmental professional to "assist" in complying with stormwater and aquifer protection laws, to conduct testing on the site to determine if a "significant environmental hazard" existed and, if so, to abate the condition.

DEEP appealed, arguing that once the trial court determined that Underpass Auto had violated the relevant statutes, it was required by law to order the defendants to remediate the pollution in accordance with DEEP's remediation standards. The central question on appeal was whether a trial court, "upon finding that any person had caused pollution of the waters of the state, is required to order that person to remediate the effects of the pollution pursuant to applicable standards promulgated by the commissioner and, if so, the extent to which the court may exercise its equitable powers to craft an appropriate remedy."

The Supreme Court held that the trial court does not have authority to designate remedial endpoints other than the DEEP's RSRs. In particular, the Supreme Court noted that the significant environmental hazards statute (§22a-6u) is a reporting program, not a set of remedial standards. While a trial court does not have discretion with respect to the remedial endpoint required, it does have discretion to "direct the precise contours and timing of the remediation process" by, for example, setting an annual cap on remedial costs to be incurred.

- DEEP's discretion over consent orders received an even more dramatic boost at the trial court level with *Comm'r of Energy & Envtl. Prot. v. BIC* (Nov. 9, 2015). The case arose out of remedial efforts by BIC Corp. at a site in Milford. In 2003, DEEP ordered BIC to conduct an investigation of environmental impacts at the site, and over the next several years, DEEP approved various

investigation plans and final reports.

Following private litigation in 2011, DEEP revoked approval of BIC's Phase II investigation report and disapproved its Phase III report, requesting further study. BIC refused to conduct further studies, and DEEP commenced an administrative enforcement proceeding against BIC. BIC counterclaimed, arguing that DEEP's revocation of its prior approvals breached the original order and breached the covenant of good faith and fair dealing. DEEP unilaterally revoked the order, withdrew its complaint, and moved to dismiss BIC's counterclaims as barred by sovereign immunity.

As there was no applicable statutory waiver of sovereign immunity, and no constitutional rights at play, BIC was required to show "wrongful conduct to promote an illegal purpose in excess of the officer's statutory authority" in order to overcome sovereign immunity. The court concluded that DEEP's unilateral revocation of the consent order was not in excess of its statutory authority. While the court supported the premise that a consent order is an agreement, it held that DEEP has the authority to issue, modify, and revoke an order. As such, the court concluded, DEEP may unilaterally revoke a consent order consistent with its grant of statutory authority. With the BIC decision, any expectation that a consent order is a firm, and final, foundation from which to move forward is now seriously in doubt.

- This spring, the Appellate Court gave the regulated community some measure of comfort by protecting lawful consent orders from challenge by third parties. In *Berkshire-Litchfield Environmental Council v. Esty*, the Appellate Court adopted a 2014 trial court decision holding that the Connecticut Environmental Protection Act, or CEPA, cannot be used to attack a lawful consent order.

According to the complaint, BNE Energy Inc. had entered the state's Canaan Mountain Wilderness Natural Area Preserve and clear-cut hundreds of trees on approximately 2.5 acres. DEEP did not refer the matter to the attorney general but instead entered into a consent order with BNE. The consent order did not mandate restoration to precutting conditions, and simply provided for natural regrowth of the forest with monitoring for invasive species. Plaintiff sued DEEP under the §22a-16, and argued that DEEP had no general authority to enter into the consent order under the relevant statutes governing state forests. Plaintiff also argued that by entering into the consent order, DEEP prevented plaintiff from pursuing its own CEPA action against BNE and prevented restoration of the forest.

DEEP was successful in its motion to dismiss. DEEP argued that plaintiff did not have standing to sue DEEP instead of BNE, as CEPA does not provide for suits against parties that did not themselves cause or participate in environmental damage.

whether the particular enforcement action requested best fits the agency's overall policies, and, indeed, whether the agency has enough resources to undertake the action at all." The court analogized to the line of cases, including *Rocque v. Mellon* and *Connecticut Coalition Against Millstone v. Rocque*, holding that §22a-16 "does not confer standing to litigate permitting decisions that are within the exclusive jurisdiction of a state agency." The court

"With the BIC decision, any expectation that a consent order is a firm, and final, foundation from which to move forward is now seriously in doubt."

The trial court held that DEEP's failure to seek damages, or refer the matter to the attorney general to seek damages, did not cause the environmental harm complained of. As the court stressed, in order to establish a claim under §22a-16, the plaintiff must show how or why the challenged conduct is likely to cause unreasonable harm to the environment. Plaintiff did not show why DEEP's consent order (as opposed to the underlying activity by BNE) was likely to cause unreasonable environmental harm.

The court held that DEEP's decision to enter into the consent order with BNE was subject to the agency's discretion and not subject to challenge under §22a-16. Courts have consistently held that an agency has discretion as to whether and how to enforce the matters under its purview. Each agency must assess whether a violation has occurred, and also "whether agency resources are best spent on this violation or another, whether the agency is likely to succeed if it acts, distinguished plaintiff's position from other prior cases where the plaintiff had alleged pollution above permitted levels or bias within the permitting process itself.

So, where does the regulated community go from here? *Berkshire-Litchfield Environmental Council* would provide some comfort as to the finality of consent orders if it had not been overwhelmed by the uncertainty created by *BIC*. In response to this uncertainty, Senate Bill 431 (introduced in the 2016 legislative session) would have prevented DEEP from unilaterally revoking a consent order. Despite the support of a variety of stakeholders, it fizzled after passing the Judiciary Committee. Meanwhile, *BIC* has been appealed, so we may return to that matter in some future year-in-review article.

Emilee Mooney Scott is an associate in the Environmental and Utilities Practice Group of Robinson & Cole, resident in the Hartford office. This article originally was published in the Connecticut Law Tribune.

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ConnecticutSection

Spring 2017 Training Schedule

Course selections for Spring 2017 are listed below.
The CTAWWA Education & Program Committee provides the most comprehensive up-to-date training for members. We appreciate your continued support and encourage you to participate in courses offered by CTAWWA individually and in partnership with NEWWA.

Please note that the courses offered in partnership with NEWWA must be registered and payment made directly to NEWWA. Courses offered by CTAWWA must be registered and payment made directly to CTAWWA.

There is a listing of the course offerings on the secure website, *www.ctawwa.org*, where you can also register online.

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PARTNERSHIP COURSES WITH NEWWA

American Water Works Association
New EnglandSection

The following courses are offered in partnership with the New England Water Works Association, a section of the American Water Works Association.

NOTE: CTAWWA does ***not*** accept registration for ***these*** classes. To register for these courses, call NEWWA at (508) 893-7979, or visit the website at *www.newwa.org*.

Registration fee includes all course materials, breaks, lunch (excluding half-day courses), CEUs, and CEU Certificate. All courses are approved for CT Certified Drinking Water Operator Training Renewal Requirements. Distribution (D), Treatment (T), or combined (T&D) applicability is listed for each course. Enrollment is limited; please register for courses early.

"Hands-On" Valve Operations and Maintenance

Course Code: DVO317AC
Date: Wednesday February 15, 2017
Location: Regional Water Authority, New Haven, CT
Time: 9:00 am – 4:00 pm
CEU: 0.6 CEU
Applicable for Distribution (D)

Course Description: This course will instruct you in the proper procedures for inspecting, testing, and maintaining mainline distribution valves and water mains. It will also examine the fundamentals of valve and main maintenance and detail effective maintenance management procedures with the focus on optimal operation of the distribution system. The course will also feature a hands-on instructional component where participants tear down each type of valve.

Registration Fee:
CTAWWA Members: $190.00;
Non-Members: $240.00

How to Avoid Violations by Removing Pathogens in Your System

Course Code: WAV317AC
Date: Tuesday, March 14, 2017
Location: MDC Training Center, Maxim Rd., Hartford, CT
Time: 9:00 am – 12:30 pm
CEU: 0.3 CEU
Applicable for Treatment and Distribution (T and D)

Course Description: This course is designed to provide an understanding of how to avoid occurrences of pathogens and indicator organisms in distribution systems. By understanding the potential dangers of allowing certain organisms in water, the risks of waterborne disease rise rapidly. Regulations will be examined (current *and future*) to provide a proper understanding of what has been proposed as effective goals in pathogen removal. An in-depth examination of how to prevent pathogenic organisms from entering from source to last tap will be discussed. The issue of disinfection success will examine possible organism resistance and how to respond if a system problem occurs. Lastly, the use of routine and special laboratory tests that can assist in troubleshooting the causes of potential problems will be explained.

Registration Fee:
CTAWWA Members: $140.00;
Non-Members: $190.00

"Hands-On" Bench Top Laboratory Skills

Course Code: BBT417AC
Date: Thursday, April 12, 2017
Location: Groton Utilities, Groton, CT
Time: 9:00 am – 4:00 pm
CEU: 0.6 CEU
Applicable for Treatment (T)

Course Description: This course will help students develop strong, basic drinking water laboratory analysis skills, and an overall awareness of their importance in water quality assurance. Specifically, it will present an overview of key techniques utilized in drinking water analysis through four laboratory workstations that will cover pH,

Spring 2017 Training Schedule



hardness, alkalinity, turbidity, chlorine residual, temperature, colorimetry/ spectrophotometry, and microbiology. Each workstation will be directed by a separate instructor/facilitator who will demonstrate procedures and supervise and assist all group members in performing a given technique.

Registration Fee:
CTAWWA Members: $190.00;
Non-Members: $240.00

Filter Surveillance Workshop

Course Code: TFS417AC
Date: Thursday, May 18, 2017
Location: Bristol Water Treatment Plant, Bristol, CT
Time: 9:00 am – 4:00 pm
CEU: 0.6 CEU
Applicable for Treatment (T)

Course Description: This course will provide an overview of proven filter monitoring techniques essential to effective filter maintenance and operational optimization. Blending unique, interactive classroom segments with topic-focused, small-group breakout sessions and an equipment exhibit, the entire workshop program incorporates a learning-by-seeing-and-doing focus utilizing an active filtration plant. Practical presentations by operations and engineering professionals experienced in filter surveillance, operational, and maintenance techniques will guide participants through the learning experience. Space is limited on a first come, first serve basis.

Registration Fee:
CTAWWA Members: $190.00;
Non-Members: $240.00

Sound Procedures For Drinking Water Sampling

Course Code: BSP417AC
Date: Tuesday, June 6, 2017
Location: MDC Training Center, Maxim Rd., Hartford, CT
Time: 9:00 am – 12:30 pm
CEU: 0.3 CEU
Applicable for Distribution and Treatment (D and T)

Course Description: This course will provide fundamental information to anyone responsible for taking drinking water samples. It will explain key concepts and sound scientific procedures that should be included in every sampling program, and feature focused, hands-on demonstrations to illustrate essential points and techniques. Instruction will focus on the need for accurate sampling, and follow the sample through the chain of custody to its eventual analysis. Proper sampling methods are critical in evaluating the quality of the water you produce, or distribute. Without strict attention to detail in procedures and methodology, a host of problems can develop. Don't let this happen to you! Though this course is lecture and discussion based, it will also feature focused, hands-on video demonstrations to illustrate essential points and techniques.

Registration Fee:
CTAWWA Members: $140.00;
Non-Members: $190.00

SPRING 2017 CT SECTION /NEWWA COURSE REGISTRATION FORM

HOW TO REGISTER FOR CT SECTION / NEWWA COURSES

Part I – Please complete this entire section including daytime telephone, fax, email, and AWWA or NEWWA member number if applicable. **The address should be your billing address for these courses.**

Part II – Please check [√] which course(s) you will be registering for**.**

Part III – Please indicate the method of payment by checking the appropriate box and filling in the **TOTAL FEE** box.
NOTE: If you are *registering within 2 days* of the class add a **$20.00 late fee**. If you will be paying by credit card, **it is very important that you include the card number and expiration date**. Please do **NOT** send registration forms and payments to CT SECTION for these classes!

Keep a copy of the course dates and directions then return the completed registration form by mail to:
NEWWA, 125 Hopping Brook Road, Holliston, MA 01746-1471. Or, fax to NEWWA at (508) 893-9898. If you need further information, please call the NEWWA office at (508) 893-7979. **PLEASE NOTE: SECURE ONLINE REGISTRATION IS AVAILABLE at *www.newwa.org*.**

PART I – PARTICIPANT INFORMATION		
PRINT Name (As you want your name to appear on CEU Certificate)	**Daytime Phone**	
Company	**Fax**	
Billing Address		
City	**State**	**Zip**
Email	**CTAWWA / NEWWA Member #** (if applicable)	

PART II – COURSE LISTING				
✓	Course Code	Course Title	Date/Time	Fee
	DVO317AC	"Hands-On" Valve Operations and Maintenance Regional Water Authority, New Haven, CT	February 15, 2017 (9:00 am-4:00 pm)	$190.00/ $240.00
	WAV317AC	How to Avoid Violations by Removing Pathogens in Your System MDC Training Center, Maxim Rd., Hartford, CT	March 14, 2017 (9:00 am-12:30 pm)	$140.00/ $190.00
	BBT417AC	"Hands-On" Bench Top Laboratory Skills Groton Utilities, Groton, CT	April 12, 2017 (9:00 am- 4:00 pm)	$190.00/ $240.00
	TFS417AC	Filter Surveillance Workshop Bristol Water Treatment Plant, Bristol, CT	May 18, 2017 (9:00 am-4:00 pm)	$190.00/ $240.00
	BSP417AC	Sound Procedures For Drinking Water Sampling MDC Training Center, Maxim Rd., Hartford, CT	June 6, 2017 (9:00 am-12:30 pm)	$140.00/ $190.00
		Add $20.00 late fee if registering within 2 days of the class date	~ ~ ~ ~ ~ ~ ~ ~ ~	
☐ Check here if you have a disability and require accommodations to fully participate.			**TOTAL**	

PART III – METHOD OF PAYMENT		
Type of Payment ☐ Check (Payable to NEWWA) P.O.#_____ ☐ MasterCard/Visa/AMEX		**Amount** (from TOTAL FEE above) $
Credit Card #	**Expiration Date**	**Signature:**

Cancellation Policy: If you need to cancel, you must contact NEWWA in writing at least two business days prior to the start of the course.
If you contact NEWWA within one business day, you will be charged 100% of the original course registration fee. This charge is non-refundable and non-transferable. Written refund/credit request made for special circumstances will be considered if received within two weeks from the start date of the program. Credit issues are valid for six months from the date of the program.

CT Department of Public Health Certification

WATER TREATMENT AND DISTRIBUTION COURSES – **SPRING 2017**

The Spring 2017 Semester starts on January 19, 2017 and ends on May 15, 2017.

Course	Name	Location	Day	Time	Credits
CWM 106	Introduction to Utility Management (Hybrid)	New Haven Campus 20 Church Street, New Haven, CT	Mon.	5:25–6:45 PM	3
WMT 102	Special Topics in Water Treatment	MDC Training Center 125 Maxim Road, Hartford, CT	Thurs.	5:15–8:05 PM	3
WMT 103	Special Topics in Water Distribution	MDC Training Center 125 Maxim Road, Hartford, CT	Tues.	5:15–8:05 PM	3

New students can receive admissions and registration materials by contacting the Admissions Office at 203-285-2010. Continuing students, already admitted to the college, can receive registration materials by contacting the Registrar's Office at 203-285-2020. Continuing students may also register online at the following address: *www.GatewayCT.edu*

Please contact Professor Wesley L. Winterbottom, P.E., Professor of Science at *wwinterbottom@gatewayct.edu* **or** 203-285-2354 with questions about these courses or the Water Management Program.

Scholarship Opportunities



General Scholarship

The Connecticut Water Works Association (CWWA) and the Connecticut Section of the American Water Works Association (CTAWWA) have scholarships available for eligible high school students. The first-place scholarship award is $1,000 with additional awards issued at the discretion of the Associations based upon the applications received and what the funds allow. We have had some great candidates in the past and hope this piques their awareness of the water industry.

To be eligible for consideration, a complete application package must be submitted to the Scholarship Committee by March 17, 2017. Applicants are asked to include a written essay (approximately 500 words) summarizing their field of study and if it will improve the environment or public health, in particular, the water industry. A copy of the application and the eligibility criteria is available on the CWWA website at *www.cwwa.org*.

Associates Committee Scholarships for CTAWWA Individual Members

Thanks to the generosity of the Associates Committee and especially the Section Enhancers, applications are now being accepted for the CTAWWA Associates Committee Scholarship Program. These scholarships are offered for CT Section AWWA (CTAWWA) individual members or their immediate family members (children/dependents) who have not previously been awarded a CTAWWA scholarship.

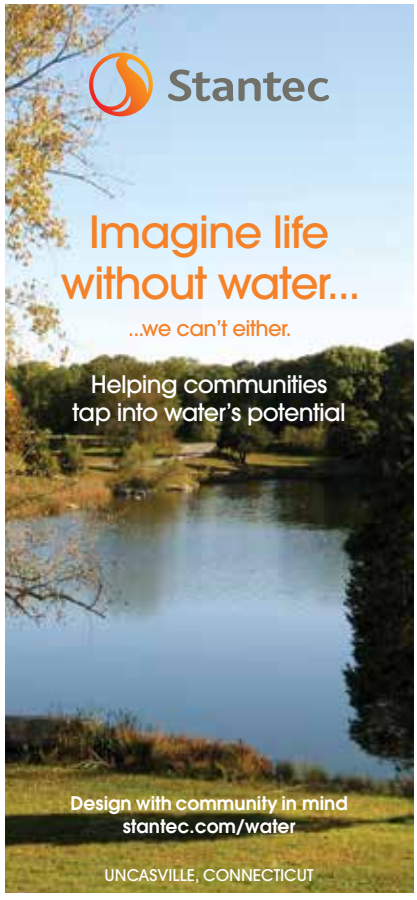
High school seniors and students currently enrolled in an educational program beyond the secondary level in a two-year, four-year, or graduate program are eligible. Student members of CTAWWA are also eligible. There are two types of scholarships – general education and for those entering a waterworks career. Last year, eight scholarships were awarded for a total of $7,000. The application deadline is Friday, March 17, 2017. For further information including applications, please visit the CTAWWA website at *www.ctawwa.org*. Encourage your immediate family member to apply!

Welcome New CTAWWA Members!

William Barella, *City of New Britain*
Catharine Bartone, *Student*
Joey Cyr, *Manchester Water Dept.*
Joe Dalessio, *City of Waterbury Water Dept.*
Stephen Dietrich, *Groton Utilities*
Rick Gambone, *EJ Prescott*
David Grundwalski, *Norwich Public Utilities*
Charles Harlan, *Leggette Brashears & Graham*
Yan Li, *University of Connecticut*
Romana Longo, *CTAWWA*
Sean McGann, *Student*
Kinagoto Nanadoum
Joseph Poplawski, *CiDRA*
Rowland Rux, *American Distilling*
Curtis Strong, *American Distilling*
Thomas Tyler, *The Metropolitan District*
J Walker, *Aquarion Water Company*
Chris Waltjin, *BJM Pumps*
Wesley Winterbottom, *Gateway Community College*







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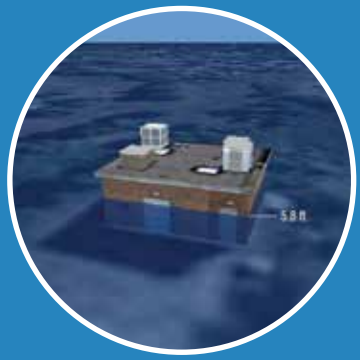
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East Northfield Water Co.
East Northfield, MA



Microfiltration Treatment
Beaver Dam Lake
New Windsor, NY



SCADA Control
Converse Lake Dam
Greenwich, CT



Climate Resiliency
Eel Pond Pump Station
Mattapoisett, MA

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Fuss & O'Neill services include preparing planning studies and evaluations to assess the condition of a utility's infrastructure and prioritize capital improvements. We provide design and construction administration services for infrastructure projects such as water mains, booster pumping stations, standpipes/storage tanks and package treatment systems.

Our engineers and scientists collaborate to find, site, permit, and construct new sources of supply to meet increasing water demands. We assist our clients with the protection and management of critical water resources in light of recent changes in land development, the growing potential for increased pollutant loads, and the reduction of water quality.

Contact Us:
Kevin M. Flood, PE | Water Practice Leader | 860.646.2469 x5298 | kflood@fando.com
www.fando.com

Art House Appointed Chief Cyber Security Risk Officer

Governor Dannel P. Malloy appointed Art House of Simsbury to serve in the newly created position of the state's Chief Cyber Security Risk Officer, where he will be responsible for working to enhance cybersecurity prevention and protection efforts in a comprehensive, cross-agency and cross-sector manner.

"As technology expands into every segment of our lives and creates greater convenience and ease, it also brings a new set of challenges and risks, and those include essential functions such as our public utility systems. This position of Chief Cyber Security Risk Officer will serve as a leader for the state who will coordinate the work responsible for enhancing Connecticut's cybersecurity posture, and safeguarding our cyber systems and critical infrastructure in an ever-evolving threat landscape," Governor Malloy said. "We want to be a national leader in these efforts, and we are moving forward in a way that will allow us to be prepared for any contingency and safeguard our residents from cybersecurity threats to critical infrastructure."

Since 2012, House has served as one of three commissioners within the Connecticut Public Utilities Regulatory Authority (PURA), where he served as its Chairman and played an extensive role in developing the Cybersecurity Action Plan which was released earlier this year. The Action Plan identified solutions for enhanced cybersecurity across the state, specifically within the electric, natural gas, and water sectors.

Prior to joining PURA, he served as Chief of the Communications Group for the National Geospatial-Intelligence Agency, a combat support agency of the U.S. Department of Defense and the nation's primary source of geospatial intelligence. He also served as Director of Communications at the Office of the Director of National Intelligence, and Senior Vice President of Public Affairs at Webster Bank.

Katie Dykes Elected PURA Chair

Commissioners of the Public Utilities Regulatory Authority (PURA) recently elected Commissioner Katie Dykes as PURA's Chair. Governor Dannel P. Malloy appointed Dykes as a PURA commissioner on October 27, 2016.

Dykes previously served as Deputy Commissioner of the Department of Energy and Environmental Protection (DEEP), where she played prominent roles in both halves of the agency's energy branch – with PURA on the regulatory side and with the Bureau of Energy and Technology Policy on the strategy side. In this position, her leadership has helped DEEP move forward to achieve the goals of Connecticut's energy agenda by focusing on bringing cheaper, cleaner, and more reliable energy to the state.

An attorney, Dykes served with the White House Council on Environmental Quality as Deputy General Counsel and with the U.S. Department of Energy as Legal Advisor to the General Counsel. She is a graduate of Yale College and Yale Law School and currently resides in West Hartford.

Justin Keskin Takes On New Role at Statewide Aquastore

Statewide Aquastore, Inc. is proud to announce that Justin Keskin has assumed the position of Sales Territory Manager for Connecticut. Justin takes over the territory previously served by Harry Hagan, who was recently promoted to the Western New York State and Long Island Regional Sales Manager.

Justin has been employed by Statewide Aquastore since 2010 when he began as an Apprentice construction builder. As the Territory Manager, Justin's increased responsibility will be working with owners, operators, municipalities, and consulting engineers on system designs for water and wastewater projects that involve liquid storage tanks. In addition to covering Connecticut, Justin also handles the Southern New York area.

Justin graduated from Champlain College, where he received a Bachelor of Science degree in Graphic Design. He is currently a member of the American Water Works Association, Westchester Water Works Conference, and the New York Water Environment Association.

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Avon Water to Join Connecticut Water

The Avon Water Company and Connecticut Water Service, Inc. recently announced that Avon Water Company will become a sister company to Connecticut Water Company. Connecticut Water Service is the name of the stock holding entity so Avon Water would join with Connecticut Water Company and Maine Water under that same parent company.

Eric W. Thornburg, President and CEO of Connecticut Water stated, "We are eager to have Avon Water Company join with Connecticut Water. Avon Water is widely viewed as a premier small water utility in the state and has an excellent reputation for quality and effectiveness among customers, regulators, and local officials. Customers will benefit by being part of a larger, regional company, which has a size and presence that provides for operational efficiencies, greater purchasing power, and other economies of scale which can drive long-term cost savings." Mr. Thornburg further stated, "We are also pleased that Bob Wesneski will remain in his leadership role, ensuring continuity of operations and strong relationships with local community leaders."

According to Robert W. Wesneski, President of Avon Water Company, Connecticut Water will continue Avon Water Company's long tradition of providing excellent service to customers. He stated, "Our experienced team of employees will continue to serve their local customers and communities as part of Connecticut Water with access to support from Connecticut Water's team of experienced water professionals. Connecticut Water is a highly regarded water utility company with a strong record of customer service, investment in infrastructure, and stewardship of the environment."

Avon Water Company serves about 4,800 customers in the Farmington Valley communities of Avon, Farmington, and Simsbury, and is located near Connecticut Water's existing operations in Avon and Farmington.

The parties plan to file an application with PURA in the fourth quarter of 2016 with an anticipated closing by April 2017.

Connecticut Water's Don Schumacher Recognized for Safety!

Don Schumacher, Connecticut Water's Lead Superintendent, was a finalist for Safety Professional of the year from the Associated General Contractors (AGT) of Connecticut. Each Year AGT recognizes 'The Best of The Best' in the Connecticut Construction Industry. Don was selected as a finalist for his efforts in leading the company's Safety Committee, Security Committee, and Threat Management Team and promoting a safe workplace for all of the employees. Don has also implemented training on Active Shooters in the Workplace, Workplace Violence and Terrorism Response. Don is vice chair of the National Association of Water Companies' Safety & Security Committee. The winner of this prestigious award was Robert Kowalski (ret.), Bridgeport Area Director, OSHA.



L to R: Kristen Johnson, CT Water's VP – Human Resources, Don Schumacher, and Karen Maines, CT Water's Human Resources Manager at the AGT's Safety Awards in October.



Connecticut Water is Now a Smoke Free Workplace!

Effective with the American Cancer Society's Great American Smokeout on November 17, 2016, Connecticut Water has gone smoke free. Smoking is prohibited in all Company vehicles, facilities, buildings, worksites and on all Company-owned grounds and parking lots. The move was taken to promote a safe and healthy workplace for employees and visitors to the Company's facilities.

Every year, on the third Thursday of November, smokers across the nation take part in the American Cancer Society Great American Smokeout and Connecticut Water thought this was a fitting day to launch a smoke-free workplace. In conjunction with the smoke-free policy, Connecticut Water began educating employees about the change several months in advance and provided resources to help employees who still smoke to kick the habit.



Woodard & Curran Acquires RMC Water & Environment

Woodard & Curran (#80 on the Engineering News-Record Top 500 Design Firms list) has acquired RMC Water & Environment (ENR #456), a 125-person, California-based, environmental engineering company focused on developing solutions to the complex challenges of using and protecting water. The acquisition of RMC expands Woodard & Curran's national footprint to 26 offices in 12 states, and 48 clean water facilities across the country. The combined firm represents 1,000 engineers, scientists, planners, treatment facility operators, and support staff who expect to deliver more than $200 million in projects this year, strengthening its position as one of the top wastewater firms in the country and elevating it into the top 20 for water resources and supply.

"This marks an important milestone in Woodard & Curran's history," explained Woodard & Curran CEO, Douglas McKeown. "We have grown steadily since the firm was founded, maintaining our focus on supporting and empowering our people, working side-by-side with our municipal and private sector clients on some of the most important water and environmental challenges. We are thrilled to be able to bring the people of RMC into the Woodard & Curran team, and to be able to leverage their expertise and experience to benefit our employees and clients."

"We were at a critical point in our growth," said RMC President Alyson Watson. "Joining forces with Woodard & Curran allows us to expand our capabilities and offer more to our existing clients, and it gives us a national platform to deliver our expertise in water resources to many new clients."

RMC was founded in the San Francisco Bay Area in 1998. With an impressive portfolio of large-scale projects, industry leadership in water recycling, and a strong reputation, RMC works for some of the largest cities in California on crucial water resource planning. The firm also provides water and wastewater design services to mid-size communities. Recent projects include preliminary design of the Santa Clara Valley Water District's potable reuse program and design of wastewater treatment plant upgrades for the Cities of Brentwood and Yuba City. Earlier this year, RMC engaged Matheson Financial Advisors to initiate a comprehensive nationwide search for a merger partner that would provide the greatest benefit to both firms. Woodard & Curran was the clear choice, both in terms of service offerings and cultural fit.

Woodard & Curran was founded in Maine in 1979 to help clients address the needs arising out of the Clean Water Act. It has grown steadily since that time with a focus on water and environmental services. Today, the firm works with municipalities, companies, and institutions across a wide range of market sectors to anticipate and solve some of the most important water and environmental challenges in the United States. Recent CT projects include development of new ground water sources of supply for the Southington WD and the Town of Berlin, just kicking off a SCADA evaluation with Connecticut Water Company, and the completion of a water and wastewater capacity analysis for the Mohegan Tribal Utility Authority. Other recent projects include sewer collection system improvements for the City of Lawrence, MA, design of a wastewater treatment plant for Upper Montgomery Joint Authority in Pennsylvania, and contract operations of the South Sangamon Water District's water treatment plant in Illinois.

"We have always been a values-driven organization," said McKeown. "Our mission statement puts our people first, and our growth and success are a direct result of our focus on hiring exceptional people and empowering them to do what they do best. RMC's history and approach are strikingly similar to our own. The match in values is easily as important as the overlapping set of skills and services across the two firms, and those shared values, expertise, and experience make for a very powerful combination."

"We made a careful and conscious decision about who to partner with for this process," added Watson. "Finding a firm that shared our values and had complementary strengths was very important to us. And we found that firm in Woodard & Curran."

The firms will integrate capabilities beginning immediately, but in the near-term, RMC will retain its focus on serving its clients in California. RMC will operate under a co-branded identity through 2017 and then transition to operating as Woodard & Curran in 2018.





George Logan Elected to State Senate



George Logan of Aquarion Water was elected to the State Senate on November 8, defeating the 12-term incumbent, Joseph Crisco, in a major upset. An Ansonia resident, Logan is the director of environmental management and government relations at Aquarion Water Company.

Logan is an active member of CWWA's Legislative Committee, participating in meetings on state water planning, testifying at public hearings on key issues, and working with other CWWA members to help shape public policies affecting the water industry.

Logan has been active in the community in many volunteer leadership roles, including the Griffin Hospital Board of Directors, the Valley Chamber of Commerce, the YMCA and Jr. Achievement. He has also served on the state's African-American Affairs Commission, including as its chairman.

Logan will represent the 17th Senate District, which covers Ansonia, Derby, Beacon Falls, Bethany, Hamden, Naugatuck, and Woodbridge.

Open Space Grants Available – Deadline 02/02/17

DEEP is accepting applications through February 2, 2017 under its Open Space and Watershed Land Acquisition Grant Program, which includes its Urban Green and Community Gardens Program. This grant program provides financial assistance to municipalities and non-profit land conservation organizations to acquire land for open space that will enhance local outdoor recreation, protect unique geographical features, or conserve wildlife habitat, and to water companies to acquire land to be classified as Class I or Class II water supply.

Nonpoint Source Pollution Grant Opportunity

The DEEP Nonpoint Source Pollution (NPS) Management Program will soon be accepting proposals through its federally funded Section 319 grant program to address nonpoint source (NPS) water pollution issues. The primary focus of the grant program will be to address NPS pollution impacts to waterbodies listed as impaired in the 2016 State of Connecticut Integrated Water Quality Report which will be released later this year. Funding for the grant is provided to DEEP by the U.S. Environmental Protection Agency through Section 319 of the federal Clean Water Act. Funds can be passed on to communities, local conservation groups, and other organizations for NPS projects, plans, and statewide efforts. Please keep an eye on the DEEP NPS Pollution Management Program website for announcement of the FY2017 grant round and related details.

R.H. White Presents Charity Golf Tournament Funds

R.H. White Companies, a construction services and utility management firm, recently presented $30,000 in proceeds from its charity golf tournament to two designated organizations of the tournament.



Members of the R.H. White Team present proceeds from golf tournament to local charity.

Tournament organizers thanked their business partners, subcontractors, and vendors who so graciously came together to help us raise these funds for our charities, through their participation and generous support.

Giving back to the communities where its employees live and work is a fundamental philosophy of the R.H. White Companies. The company continually provides funds, labor, equipment, and other resources for a wide range of local and national causes and outreach programs. It also regularly collaborates with its business partners and professional trade associations to participate in other worthy fundraising endeavors.

Memorials

Remembering Our Colleagues



Roger Dann, the former General Manager of the Wallingford Water & Sewer Division, passed away on November 4. He was recently retired as General Manager of the Wallingford Water and Sewer Division, a position that he held for almost 30 years. While general manager, he achieved many accomplishments and was instrumental in the design and construction of a new 8 MGD water treatment plant. Roger was also an active member of CWWA's Legislative Committee, serving on the "Stream Team" – a team of water industry experts who negotiated with DEEP on the state's Stream Flow Regulations. Roger was a passionate advocate for the water industry – intelligent, articulate, and forthright.



Kleinfelder

Kleinfelder is a leading engineering, construction management, design, and environmental professional services firm, providing solutions to meet complex infrastructure challenges. Leveraging our integrated, cross-disciplinary team of nearly 2,000 professionals in 70 offices across the U.S., Canada, and Australia, we partner with clients to deliver leading-edge solutions on a variety of projects. Our reputation for expertise, innovation, and quality, earned since Kleinfelder's inception in 1961 in Stockton, CA, has solidified our position as a trusted consultant.

In 2009 Kleinfelder acquired SEA Consultants Inc. – a New England-based firm recognized for stellar client service and commitment to water resource stewardship. Kleinfelder currently has offices in Rocky Hill, CT, as well as offices in Maine, Massachusetts, and New Hampshire. The Rocky Hill office has been serving Connecticut clients since the mid-1980s with a staff of approximately 30 people. Kleinfelder has extensive experience with planning, modeling, design, and construction of public potable water infrastructure, including source protection, treatment, storage, and distribution. Some project examples from our current New England client portfolio include:

- Water Treatment Pilot Studies testing for dissolved air flotation and GAC filtration
- Corrosion control and disinfection by-products control assessments
- Water treatment plant process optimization and trouble-shooting
- Water system resiliency and usage studies
- Groundwater source exploration
- Assessment, remediation, and treatment design for emerging contaminants
- Asset Management Planning
- Design and construction services for treatment, storage, and distribution

Kleinfelder serves our clients, our people, and our communities with a collective desire to leave a lasting, positive influence. It is woven into our business mission through Kleinfelder's Corporate Social Responsibility (CSR) Program, tailored to address our communities' most pressing issues. We focus on four essential pillars: disaster relief, diversity, sustainability, and volunteerism. A sampling of some of these activities include:

- For the past several years Kleinfelder has helped to clean up the Connecticut River Watershed in the annual Source to Sea Cleanup. The Source to Sea Cleanup, organized by the Connecticut River Watershed Council, is a two-day effort each year in which volunteers remove trash along the length of the Connecticut River and its watershed, from Vermont, New Hampshire, Massachusetts, and Connecticut. Kleinfelder employees from the Connecticut and Springfield, MA offices join the Hartford MDC and others at Wethersfield Cove to remove trash and debris that collect on the water's shores.
- During the fall, Kleinfelder collects donations of food and toys to help out local families in Rocky Hill during the holidays. In addition, we participate in a local coat drive to benefit families in New Haven.
- Kleinfelder has partnered with Ronald McDonald House Charities (RMHC) across all of our operations for many years, serving meals to families staying at Ronald McDonald Houses across the US, raising funds through Red Shoe Day (San Diego), joining bicycle rides to raise funds (Australia), and participating in the annual Christmas Party at the Loma Linda, CA RMHC.
- Employees are also committed to serving their local communities through street clean-ups and donating clothing, food, and toys to children in need at local schools.
- Kleinfelder employees have also participated in events to raise funds and awareness for diabetes, juvenile arthritis, and ovarian cancer.

Here at Kleinfelder we are proud to work with our clients to provide clean, sustainable water for a healthy future. That mission goes hand in hand with our commitment to contribute to the communities in which we live, work, and play in the spirit of giving back. For additional information please contact Thomas A. Loto, P.E., BCEE at 860-258-7177 or at *tloto@kleinfelder.com*. Please visit our website at *www.kleinfelder.com.*





Heitkamp

Heitkamp, a Division of Michels Corporation, provides convenient, reliable solutions to problems caused by deteriorating pipelines. Heitkamp's comprehensive slate of rehabilitation services maintain the nation's infrastructure by extending the lives, increasing the flow and maintaining the integrity of potable, waste, and stormwater pipelines, manholes, and culverts.

Because many deteriorating water and sewer mains are located under streets and in populated areas, Heitkamp performs much of its work using trenchless technologies, avoiding excavations that inevitably cause traffic disruptions. Additionally, Heitkamp's technicians are trained and certified to execute projects that require short construction timelines to lower costs and create minimal interference to traffic and residences.

Heitkamp serves the potable water market with maintenance, cleaning, and lining capabilities, including spray-on cement, epoxy resin coatings, and fully structural cured-in-place pipe (CIPP) liners. Because each project presents unique challenges, Heitkamp's experienced personnel work with customers to determine which method is best suited for meeting project goals and requirements. Products are suitable for water mains that range in diameter from 3 inches to more than 22 feet and are made of ductile iron or cast iron, welded or riveted and lock-bar steel, concrete, and asbestos cement.

Gravity market capabilities include maintenance, cleaning, chemical grouting, manhole and lateral rehabilitation, and CIPP installations. Heitkamp's CIPP liners are installed by air or water inversion, or can be pulled into place. Curing is done by water, steam, or ultraviolet light. Products are suitable for pipes that range in diameter from 6 to 100 inches.

Heitkamp was founded in 1982 in Watertown, CT, where its headquarters remain. In June, Heitkamp was acquired by Michels Corporation, a Wisconsin-based utility contractor with nationwide experience in pipeline rehabilitation. Family owned and operated, Michels is one of the largest, most diversified utility contractors in North America. Michels has more than 5,000 employees and 10,000 pieces of heavy equipment.

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HARPER CONTROL SOLUTIONS, INC. *	20	203-964-1900	*www.harpervalves.com*
HARPER-HAINES FLUID CONTROL INC. *	4, 55	203-693-3740	*www.harper-haines.com*
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