

InFlow-Line

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



ATCAVE moves to CoCo Key in Waterbury. Read about it on page 13

Applications and information on the Associates Committee Scholarships are on page 29.

Too much red tape? CWWA has some suggestions to cut it on page 35.

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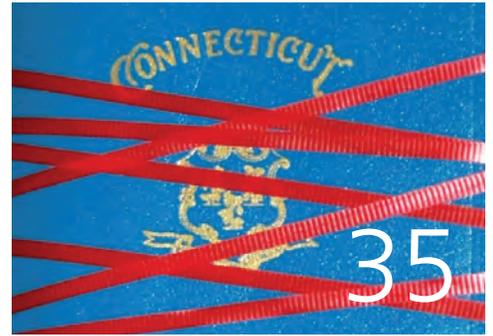
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On the cover: Last year's ATCAVE was the place to be for accurate and timely information on our industry. This year, ATCAVE will take place on March 4 at the CoCo Key Water Resort – Hotel – Conference Center in Waterbury.

From the CTAWWA Chair

I hope everyone had a nice Holiday season and have set some high goals for themselves in 2014.

Besides the normal family and work orientated goals, I would like everyone to consider getting involved with CTAWWA in 2014. It is a win/win for you as well as for your company and possibly for your future. The networking possibilities are endless and the people you will be around are the best in the business. There are 22 committees that you could join and after a few years, you could eventually become the chair of the committee. From that point you get nominated to the Board of CTAWWA, go through the various chairs and end up being the person writing this article. It's up to you to make the decision to better yourself, so just contact someone listed below, join a committee and change your life for the better.

- Customer Service Committee – Art O'Neill: 800-428-3985 ext. 6029
- Education Committee – Rob Longo: 860-582-7431
- Water for People Committee – Megan Slater: 860-343-8297
- Young Professionals Committee – Tiffany Lufkin: 203-401-6710
- 18 other committees – Pam Monahan: 203-714-6096

It's that time of year again to start thinking about the Annual Technical Conference and Vendor Exposition (ATCAVE). We are excited about the new location being the CoCo Key Water Resort - Hotel - Conference Center in Waterbury. It is a great opportunity to talk to more than 70 vendors and see what the latest technology there is available to us. There will also be educational classes going on throughout the day in which you can get Training Contact Hours. Please mark your calendar on March 4th and plan on attending. I'm looking forward to seeing you there.

By now everyone should have gone onto the new CTAWWA website. It was a work in progress for the first few months but it seems like all the bugs have been worked out and it is working great. All the information you would need to know for educational courses, upcoming events and contact information about committees can easily be found on the website. Just go to www.ctawwa.org to start your journey into the section activities.



Not only is it good to be a Boston Red Sox fan and have them win the World Series this past year, but to have ACE14 in Boston this year is just as good. I have had the opportunity to attend the past two ACE Conferences in Dallas and Denver, and they were fantastic. It all starts with the opening ceremony in the Exposition Hall and then there are so many classes to attend that make the event so worthwhile. If you have the opportunity to attend, please do so. Who knows, the Red Sox might even be in town.

Also, a reminder that the 43rd Annual Joint Conference with CTAWWA and CWWA is scheduled for May 21-23 at The Equinox in Manchester Village Vermont. The program is sure to be a great one so plan on signing up early so you don't miss out.

Feel free to contact me anytime with questions or comments on making your Connecticut Section of AWWA the best it could possibly be.

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Seventy-five attend the CTAWWA's 2013 Water Quality & Treatment Symposium

On November 14, CTAWWA held its second annual Water Quality & Treatment Symposium at the CoCo Key Water Resort - Hotel - Conference Center in Waterbury. The symposium was originally the brainchild of the MDC's Ray Baral during his term as CTAWWA Chair in 2012-2013.

This year's symposium planners served up seven presentations by experts from ARCADIS, Hazen & Sawyer, Wright Pierce, Tighe & Bond, Utility Services Group, CDM Smith and the Connecticut Department of Health's Drinking Water Section.

Those who attended agreed that the presentations were excellent as was the lunch served up by CoCo Key. 💧

YouTube



Randy Moore from Utility Services Group did a presentation on "A New Sustainable Approach to Maintaining Well Performance and Water Quality."



One of the best features of the symposium is that presenters are there to interact with attendees and answer additional questions.



Eric McPhee from Connecticut DPH provided some much needed information on Source Water Protection.



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The Times They Are A-Changin'

By David J. Refkin

Since the dawn of recorded history, humans have always noted and been reassured when an activity takes place on a consistent basis. The sun always rises in the east and sets in the west. The swallows return to Capistrano every year on March 19. The iconic Lou Gehrig was widely admired because for 14 seasons he never missed a baseball game. And every weekday morning the Connecticut Turnpike will be jammed southbound into Stamford (sorry a bad example). In our fast changing society many of us prize consistency now more than ever.

For decades, consistency was standard operating procedure for the water industry in the Northeastern United States. Annual rainfall fell at the convenient rate of 48 inches per year, with the assumption that except for some minor seasonal fluctuations over the twelve months of the year, four inches of rain fell per month. Yes, there were occasional droughts and floods, but those were rare events - 100 year events - such as the Great New England Hurricane of 1938 that brought death and destruction to much of Long Island, Connecticut and Rhode Island.

However, now something rather odd has started to occur that even the most casual observer of our weather cannot ignore: the weather has really gotten crazy, not just here in the Northeast but all over the world. Is this real? Is this hype by the Weather Channel hoping to drive up its ratings? Will this continue in the future? What are the implications for water utilities with a solemn obligation to provide that most precious of natural resources in which all of life is dependent?

To start out with, let's look at some recent data:

- Boulder Colorado received 17.2 inches of rain in the first two weeks of September, 2013 - 85% of its "average" annual rainfall.



- Burlington Vermont recorded a temperature of 80 degrees on March 20, 2012 – 37 degrees above "normal."
- The largest electrical generating facility in New England, the Millstone nuclear plant in Waterford, Conn., had one of its two units shut down for twelve days in the summer of 2012 because the "cooling" waters of Long Island Sound were not cool enough - water temperatures exceeded 77 degrees. Luckily the larger unit, #3, was able to continue to operate during that hot summer, but just marginally.

And in Connecticut, we've been jolted by four highly unusual storms over a recent 18 month period:

- Hurricane Irene in August of 2011 caused serious storm surge damage along the coast (It also devastated much of central Vermont).
- "Snowtober," an unusual snow storm in late October 2011 when the leaves were still on the trees, caused widespread and long-term power outages throughout Connecticut.
- Superstorm Sandy hit that same time one year later, late October 2012, causing extensive destruction, especially on the coast. 625,000 customers in the state lost power. The damage was even more severe on nearby Long Island and at the Jersey shore.



- Winter storm Nemo, a huge snowstorm throughout the state in February of 2013, dumped 40 inches in Hamden and essentially shutdown much of Connecticut for days.

Obviously something very unusual is happening but it is not just the weather (the short-term); it is the climate (the long-term pattern of weather). Based on research from the U.S. Government's National Climate Assessment, the Water

Research Foundation, Connecticut's Steering Committee on Climate Change, the Union of Concerned Scientists and other peer-reviewed research, we are starting to see significant impacts in our climate that will increase throughout this century.

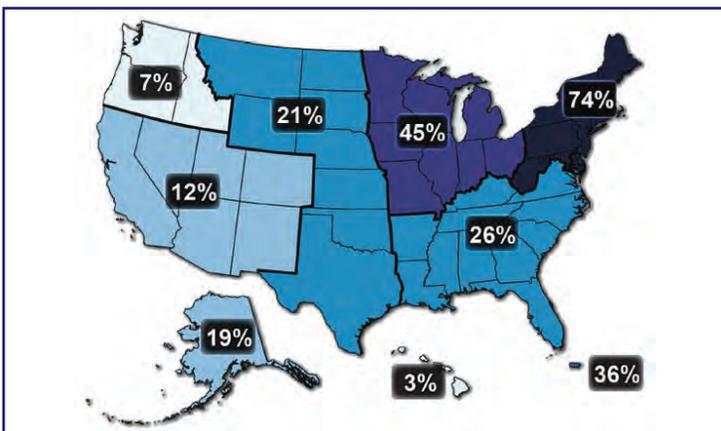
Recent Research Findings For Connecticut and the Northeast

Temperatures have increased almost two degrees since 1895, (beginning of record keeping), a significant change with important implications. By mid-century Connecticut's climate will be similar to parts of North Carolina. Summer temperatures above 90 degrees will be the norm and above 100 degrees much more common.

Precipitation is increasing. Already we have seen an increase of five inches on an annual basis since 1895. With rising winter temperatures there will be less snowfall and less snowpack for the spring.

The seasonal distribution of precipitation is changing. Total winter precipitation will significantly increase primarily as rainfall, spring will be marginally wetter, and summer heat waves will be more frequent, longer in duration and more intense.

Variability and extreme weather events are increasing. Extreme weather events, as noted above, are becoming quite frequent. January 6 and 7, 2014 was yet another example. The average high temperature in Hartford for these dates is 36 degrees. On January 6 at 10 AM the temperature was 58. On January 7 at 10 AM the temperature was 11, a 47 degree change and representative of extreme weather and variable weather within 24 hours. In fact, the Northeast has seen by far the largest increase in extreme weather in the United States - an increase of 74% since 1958.



Increase in Extreme Weather Events in the United States since 1958

Also, higher temperatures and the related increase in moisture and energy in the atmosphere are leading to an increase in the frequency of heavy downpours (more than two inches), heat waves that are more frequent and of longer duration and an increase in category 4 and 5 hurricanes.

Storm surge risk is increasing. Along the Connecticut shoreline, lands have subsided by approximately eight inches, meaning that the shoreline on average has moved inland by 100 feet in the last century. When combined with sea level rise, there has been an increase in the extent and frequency of coastal flooding, erosion and property damage.

Flooding risk is increasing. There are numerous reasons for this concern including an increase in precipitation, winter rains, variability, extreme weather and the frequency of intense hurricanes. When compounded by sea level rise, land subsidence, the destruction of some marshes and estuaries and development pressures, the risk of flooding is significantly higher.

At the same time the risk of drought is increasing. How could this be? The primary factors are intense summer heat, longer heat waves, increased evaporation and less winter snowpack. More heat will also increase the demand for irrigation and potentially the demand for water in urban heat islands that are 10 degrees warmer than adjacent parkland.

Yes, this all sounds a bit ominous. But what are the implications for a water company? How can a water utility minimize risk, assure their customers and related supply chains and build resilience for "new normal" weather conditions?

Implications and Suggested Strategies for Water Utilities

An overall increase in precipitation combined with greater seasonality, variability and extreme weather will all have significant impacts. Managing water supply, especially for peak demand periods, will become significantly more complex. More rainfall will be lost through runoff during downpours. With variability increasing, managing for drought conditions will become more difficult. Innovative approaches to forecasting water supply and incorporating ever changing data and new research will be required.

Water quality will become more challenging to manage. With an increase in extreme events and flooding issues related to nitrogen, herbicides, pesticides, pathogens, turbidity and algae blooms will need to be addressed. Salt water infiltration of freshwater distribution systems will become a larger concern. At the same time natural ecosystems are being downgraded.



Lake Erie Algae Bloom - 2011

continued on page 6

The Times They Are A-Changin' (continued)

Aging infrastructure, already a serious concern, will be further stressed and may be overwhelmed during high precipitation/runoff events. With significant infrastructure in large cities along the coastline, Connecticut is particularly vulnerable to storm surge and rising sea levels. Keeping water cool, especially for electrical utilities, will be an important emerging issue. Wastewater treatment facilities will have their own set of challenges, including public perception issues.

There are even some experts who think that the long-term trend towards lower consumption (1.5% per annum) could slow down or even reverse itself. This would be driven by an increase in lawn watering related to higher temperatures and longer heat waves and meeting the cooling needs of electrical power facilities. Research conducted by Dr. Gerald Kauffman and utilized by the state of Delaware indicates a one degree increase in temperature equates to a 3-4% increase in water demand. An unanswered question is what impact an expected increase in humidity will have.

These issues are getting attention from large water companies, customers, investors and insurance companies. United Water and American Water are looking at these issues and developing strategies to manage for changing conditions. Major customers of the industry are also concerned. Many have back-up systems for electricity but not for water. For some customers, for example a hospital, water is a matter of life and death. Shaken by the electrical failures of the last two years, they need to be assured that water utilities are doing everything they can to minimize risk. These major water customers want to be part of the process by engaging with utilities in emergency planning activities. Investors and insurance companies are also asking companies that they invest in to describe how they are minimizing risk. These companies are in turn asking their water suppliers questions about their operations that have never been asked before. The companies are similarly looking to minimize risk throughout their supply chains. The suppliers in turn are also asking questions of their water suppliers. Many questions

should be expected from customers and investors. Are water utilities prepared to respond and do they have the appropriate answers?

Forward Path

To thrive in this new normal environment, water utilities will be asked in the near future to sharply focus on several important issues. One of the most critical will be revamping their water supply and water demand forecasting to incorporate new scientific data and calculating the impacts in a world of increased variability where the margin of safety can no longer be built on "history." New water quality strategies will likely need to be developed and infrastructure needs reassessed.

Customers, investors and insurance companies will be looking for reassurance and will need to be confident that their respective needs are being met. Regulators should be open to the new activities that water utilities will engage in to assure that water will always be reliable and of high quality given the challenges facing the water providers. The industry can view these challenges as opportunities to work more closely with customers, to find new markets and positively impact the bottom line.

The deck is being re-shuffled and our world is changing. For those who are adaptable and can accept and manage these changes, there will be new pathways to success that provide benefits to the broad array of stakeholders that water utilities impact.

David Refkin is President of GreenPath Sustainability Consultants. He works with clients to develop strategies that turn today's sustainability challenges into business opportunities. His focus is on issues related to water, recycling, climate change, forests, bioenergy, supply chains and environmental communications. He can be reached at davidrefkin@gmail.com or at 914-980-8346. 



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CWWA COMPLIANCE CORNER



Fire Hydrants Exempt from Lead Reduction Act

A bill exempting fire hydrants from compliance with the Reduction of Lead in Drinking Water Act was signed into law by President Obama. U.S. EPA surprised the industry in late October when it announced that fire hydrants were covered under the Reduction of Lead Act. This would have required public water suppliers to replace hydrants at considerable cost to the industry and water

customers. Recognizing that the threat posed by lead in water comes from long-term exposure and not equipment that is used on a temporary basis, Congress adopted the legislation in December. EPA is also required to direct its National Drinking Water Advisory Council to study potential changes to the Lead and Copper Rule and to study lead exposure throughout drinking water distribution systems.

Surface Water Drainage & Roof Drains

The state Department of Public Health's Drinking Water Section has posted a new regulatory clarification relative to surface water drainage and roof drains under the Section 19-13-B51d, Regulations of Connecticut State Agencies (RCSA). The Drinking Water Section considers roof drainage to be "storm water runoff," and should be treated the same as "surface wash." All wells should be protected from the surface wash of any roof drain outfalls and located at a relatively high point on the premises. Also, a roof drain outfall may be considered as a known or probable source of pollution to a well if the roof drain system contains a contamination source within its

collection area that would impair the quality of the storm water runoff. Roof drain systems are not considered "drains carrying surface water," provided that these roof drainage systems are not physically connected to any other type of drainage system, including storm drainage systems and foundation drains. Roof drainage systems that are physically connected to storm drainage would be considered part of the storm drainage system and a "drain carrying surface water."

New Applications Posted by DPH

New applications for storage tank construction, tank interior coating, CT calculations for groundwater systems, and chemical feed installation projects have been posted on the Drinking Water Section's website. These applications are designed to work in tandem with guidelines for storage tank construction, liquid chemical feed systems and CT for groundwater systems using chlorine disinfection. These applications should be submitted to the Drinking Water Section along with a General Application Form in order to initiate a technical review under the RCSA Section 19-13-B102(d)(2). 💧

**STATE OF CONNECTICUT DEPARTMENT OF PUBLIC HEALTH
DRINKING WATER SECTION
STORAGE TANK PROJECT APPLICATION**

Instructions

This application is provided in the interest of facilitating the approval process for storage tank projects, and must be submitted to the Department of Public Health (DPH) along with a General Application Form. A document entitled "Storage Tank Design and Construction Guidelines" is available on the DPH's web site <http://www.ct.gov/dph/publicdrinkingwater> for use as a reference in the design of a storage tank and identifies applicable Regulations of Connecticut State Agencies (RCSA) or Connecticut General Statutes (CGS). Supporting information as identified with an asterisk (*) in this application will need to be provided. Specific and applicable RCSA or CGS will be stated within brackets []. If the project overall has multiple components other than a storage tank (i.e. wells, treatment, pumps, etc.), additional applications may need to be completed. Check off all items that apply.

Section A. General Information

PWS Name: _____
 PWSID #: CT _____

Please provide the contact information of the primary person who can answer technical questions regarding this project:

Name: _____
 Title: _____
 Company: _____
 Address: _____

"The Drinking Water Section considers roof drainage to be "storm water runoff," and should be treated the same as "surface wash."

Implementing Stream Flow – DEEP’s Proposed Basin Classifications

DEEP took the first step in implementing the state’s stream flow regulations by developing proposed basin classifications for the Southeast Coastal, Pawcatuck and Thames Major River Basins.

CWWA and several water utilities submitted comments on the proposed classifications, which were publicly noticed in late September.

In reviewing the proposed classifications, CWWA considered whether they were consistent with the regulations, which had been the subject of extensive negotiations to ensure that they appropriately balanced protections for the state’s aquatic habitats with the need to provide an adequate supply of water to meet the state’s public health, safety and economic development needs. To achieve this balance, the regulations were revised to:

- 1) Reflect the need for additional public water supply considerations, including protection for safe yield Margin of Safety;
- 2) Provide greater certainty to public water suppliers regarding how a river or stream would be classified by ensuring that any river or stream segment downstream from an impoundment, intersecting a Level A aquifer protection area, or identified as a potential future source would not be considered a Class 1 or Class 2;
- 3) Create a Class 4 designation to reflect rivers or streams whose flow has already been significantly altered by human activity;
- 4) Exempt small watersheds and certain man-made conveyances; and
- 5) Give public water suppliers greater flexibility and minimize the costs associated with compliance through flexible compliance options; and
- 6) Add consideration for potential future water supplies.



In reviewing the basin classifications and determining whether they reflect the intent of the regulations, CWWA considered four questions: 1) Is the methodology used for classifications consistent with the regulations; 2) Are the classifications accurate; 3) Do the classifications make sense from a practical standpoint; and 4) How will the classifications impact future public water supplies and land use activities?

Is the Methodology Accurate?

Developing a comprehensive basin classification system is certainly complex and DEEP’s GIS system was an effective tool in classifying more than 1,700 river and stream segments in the basin. However, CWWA does not believe the



methodology used is fully consistent with the regulations for several reasons.

For example, DEEP has acknowledged that the impact of stream classification on a community water supply's margin of safety – a key issue in negotiations - was not even considered. DEEP has indicated that they do not have the information. The problem is, a water system can't accurately determine the impact of the stream classification on Margin of Safety until the classification has been proposed. Unfortunately, the 90 day comment period does not afford sufficient time to do the analysis.

In addition, the regulations identify 18 factors in determining classifications for a Class 1, 2, 3, or 4 stream segment. While the regulations do not suggest any relative weighting of the various factors, DEEP identifies four factors as the primary indicators of the degree of alteration of flow for any given stream segment. Each of the four factors is evaluated and assigned a metric value from 1 to 3 on the basis of the degree of alteration with a score of 3 representing the most altered condition. The total of the scores for the four factors is then utilized to assign an initial stream classification. However, the ranges for correlating total scores to stream classification do not allow for any stream to attain a Class 4 designation even when all four of the hydrologic factors are found to represent the maximum possible alteration. This appears inconsistent with the narrative standard for Class 4 designation as a

maximum score in each of the hydrologic factors would clearly be indicative of a substantially altered stream.

Are the Classifications Accurate?

The GIS system used to classify rivers and streams places a significant burden on municipalities, planning agencies and water companies to determine whether the rivers and streams have been classified appropriately. Under the system developed by DEEP, the public must identify errors and provide DEEP with additional information or considerations that may necessitate changes to the classification.

Given the complexity of the data, the number of stream segments involved, and the GIS mapping system, this is an extremely cumbersome process. We are concerned that many smaller communities and water systems in this area lack the time and expertise to determine whether the classifications are accurate within the time frame provided. If inaccuracies are not identified at this stage, the only recourse available is to petition for a change in classification, which is a time-consuming and uncertain process.

We believe DEEP should perform a greater "boots to the ground" evaluation to ensure that the classifications are accurate and properly reflect the degree of stream flow alteration, including reaching out to those that can help supply accurate data and information.

Do the Classifications Make Sense?

There are instances where the individual classifications do not always make sense for the river or stream. For example, the Shetucket River Basin provides public water supply and hydropower in many locations. However, the classification abruptly changes from 3 to 1 in Windham and then does not revert back to 3 until the Occum Dam. In addition, the relative classifications do not always make sense when adjacent streams are compared and the classifications do not always reflect the classifications of tributary streams joining the main stem

How will the Classifications Impact the Future?

Given the significance of how a river or stream is classified, it is important to consider how the classifications may impact the development and use of future public water supplies as well as land use activities. Inasmuch as 97% of the river and stream segments in the Thames River basin are classified as free flowing or minimally altered (Class 1 or 2), will this help preserve these rivers and stream for future beneficial use or will it impede economic development, public water supply development, and other land use activities? This uncertainty raises concerns about whether the classifications will achieve the balance sought by the negotiated regulations.

Clarifying how the classifications may impact future public water supplies and land use activities – as well as the state's overall economic goals - is vital to determining whether the proposed classifications achieve a balanced approach to regulating stream flow that will protect the state's aquatic habitats and ensure public water supplies to meet the public health, safety, agricultural and industrial needs of the state.

For more information on this issue, contact CWWA's Executive Director Betsy Gara at gara@gmlobbying.com or visit DEEP's website at www.ct.gov/deep/streamflow. 💧

Shetucket River photos by Bill Large

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**CTAWWA Call for Presentations
Joint Annual Conference
May 21-23, 2014**

Equinox, Manchester, Vermont

**There is an opportunity for individuals
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Joint Conference.**

Criteria for selection – Originality, Innovative, Significance of Work, Audience Range, Technical Content, Case Studies, Quality of Abstract, Real Life.

Suggested topics – Conservation, Emerging Technologies, Information Technology, Plant Operations, Small Systems, Water Treatment, Construction, Engineering, Maintenance, Regulatory Issues, Strategic Planning, Distribution, Management, Safety, Security, Water Quality.

Please note that the selection of presentations at annual conference will be made by the CTAWWA Education and Program Committees with the presenters being notified within the next few weeks.

What to submit – For full consideration, the speaker biography and detailed outline of the presentation must be submitted by the deadline indicated below. The course will be presented to the Department of Public Health for CEU approval for attendees.

Deadline – Submissions are due by February 26, 2014 and should be sent via email to Scott Bonett at sbonett@hazenandsawyer.com.

Questions – Please call Program Co-Chairs Scott Bonett at 860-257-1067, or Gerry McDermott at 860-664-6125.

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Hotel Northampton, 36 King Street,
Northampton, MA

Course Topics: regulations, particles, natural organic matter and micropollutants, emerging contaminants, chemical & UV disinfection, coagulation, clarification (sedimentation and dissolved air flotation), activated carbon adsorption, granular media and membrane filtration, desalting membranes, ozonation, advanced oxidation processes, Fe and Mn control, conceptual design principles and applications, and case studies.

Institute should be of interest to those dealing with water supply and treatment. It is intended for consulting engineers and scientists; water utility personnel including superintendents, managers, and operators from moderate size and larger utilities; engineers and scientists from state and federal water regulatory agencies; engineers and scientists from industries related to drinking water treatment; and professors who teach water supply and treatment courses.

Institute Faculty, Professors at UMass-Amherst all with over 35 years of research, teaching, and professional experience: **David A. Reckhow's** expertise includes natural organic matter, disinfection byproduct control, emerging contaminants, and ozonation. **James K. Edzwald's** expertise includes coagulation, dissolved air flotation, seawater pretreatment for desalination, filtration, removal of TOC and DBP precursors, and control of protozoan pathogens. **John E. Tobiasson's** expertise includes particles in water, coagulation, media and membrane filtration, and manganese control.

Registration: Early registration is open until May 15, 2014 at \$950; after May 15 the fee is \$1,150 with deadline of July 15. The registration covers all instructional costs, course notes, continental breakfast, coffee breaks and an evening reception. Lodging is not included. Payment by credit card may be made online at the Institute website (<https://sites.google.com/site/instdwt/>) or by check (made out to "Drinking Water Treatment Institute"). For additional information, see the Institute website or contact Professor Reckhow. **Two CEUs through CTDPH.**

Scholarships are available to Assistant Professors and student and Post-Doctoral researchers. These reduce the registration fee to \$500. Contact Professor Reckhow for application forms: dreckhow@gmail.com

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L B G

From the CWWA President

The Year of Water

For those of us in the industry, every year is the Year of Water. Because all of us work hard every day to provide a safe, ample supply of quality water to our customers, people sometimes take what we do for granted.

Even in the public policy arena, water issues haven't generated a lot of buzz in Connecticut. But this year promises to be different.

Lawmakers have convened a Water Summit to move Connecticut forward in developing a statewide water resources plan. A broad range of stakeholders, including several CWWA members, are participating on subcommittees to explore: 1) supply and distribution channels, including diversion, allocation, permitting, commercial utilization and economic development; 2) drinking water, wastewater and discharge management, recreation, shoreline and watershed preservation issues; and 3) research, data, planning and inventory efforts, including the role of existing oversight agencies and regulatory structure.

“Governor Dannel Malloy has also opened the door to a discussion about burdensome regulations.”

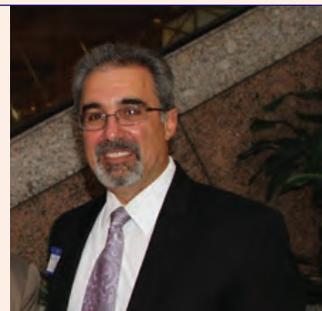
The state Department of Public Health also convened a Source Water Collaborative to launch a discussion about how Connecticut can work together to protect our sources of drinking water supply and provide long-term benefits to Connecticut. Several CWWA members and I participated in the workshop and believe it will be a very productive effort. Governor Dannel Malloy has also opened the door to a discussion about burdensome regulations. In an industry as highly regulated as water, there are a number of regulations and policies that CWWA has compiled that need attention. The input of our members has been invaluable to this process.

And the implementation of the state's Stream Flow regulations has begun with the state Department of Energy & Environmental Protection's proposed basin classifications. It's important that we all take an active role in reviewing the proposed classifications to determine whether the information is accurate and how the classifications may affect future public water supplies and land use activities.

Recognizing that water issues may get a lot of attention at the state Capitol this year, CWWA has developed its 2014 Government Affairs Agenda, which provides thoughtful

recommendations on how to address some of the issues that may come up.

If Spring is in the air, that must mean it's time for the Legislative Committee to begin meeting. Our Legislative Committee kicks off its first meeting on January 31. CWWA members are invited to join the Legislative Committee, which meets on a monthly basis throughout the legislative session. It provides a valuable forum for developing positions on water related legislation and meeting with our colleagues to share a few laughs and some interesting discussions. Contact Betsy Gara at 860-841-7350 or gara@gmlobbying.com for the dates of upcoming Legislative Committee meetings.



The Legislative Committee is also an excellent forum to engage new professionals, by giving them the full breadth of what CWWA does on an ongoing basis. Please think of a young professional you would like to engage with CWWA, then invite them to a meeting, and “Help CWWA Grow The Next Generation!”

Guy Russo, Middletown Water & Sewer

The Hartford Courant Weighs In On Connecticut's Water Issues

On January 5, the Hartford Courant's main editorial was on the subject of water and specifically, the need for a statewide water plan. The editorial makes two specific recommendations for the General Assembly. The first is that the drinking water industry is regulated by four agencies and that as a consequence, “no one is in charge. Someone should be.”

The second recommendation is that our water management system should be flexible enough to be able to “accommodate growth without going to war.”

Good to see the nation's oldest continually published newspaper weigh in on some of the critical water issues facing us.

You can read the entire editorial at:
<http://www.courant.com/news/opinion/editorials/hc-ed-water-plan-needed-20140103,0,3011186.story>



ATCAVE 2014

Connecticut's Top Water Supply Information & Resource Exchange

Annual Technical Conference and Vendor Expo Connecticut Section – American Water Works Association

March 4, 2014 at CoCo Key Water Resort – Hotel – Convention Center, Waterbury

Get the most out of ATCAVE 2014 and earn educational credits. See the training registration form at the end of this section. Select from tracks in Water Quality and Treatment, Distribution or Management.

Section A-1: Water Quality and Treatment

2.0 T.C.H.* (.20 CEU)

8:30 AM to 10:40 AM

Price: \$100.00 includes course materials and Expo lunch

Dewatering Application Using Geotextile Dewatering Structures

Peter J. Grabowski, P.E. - Tighe & Bond

Elizabeth G. Baldwin, P.E. - Tighe & Bond

Susan Negrelli, P.E. - The Metropolitan District

Dewatering techniques are used to remove water from solids to minimize disposal costs. This presentation will discuss the use of geotextile dewatering structures for sediment slurry containment and volume reduction during the cleaning of a nine million gallon filtered water basin.

Upgrading Woburn's Horn Pond Water Treatment Plant

Jennifer Osgood, P.E., BCEE, CDM Smith

The 4-mgd (million gallon per day) water filtration plant for the City of Woburn's groundwater supply removes naturally-occurring, but problematic, manganese to significantly improve the quality of water delivered to the citizens of Woburn. This presentation describes an expansion of the facility which also includes ultraviolet light (UV) disinfection, pumping modifications, and new systems for backwashing the filter system and reclaiming 90-percent of the process water.

Connecticut Department of Public Health: Regulatory Update

Connecticut Department of Public Health- Drinking Water Division Staff

DPH staff to present on regulations and other various topics.

Section A-2: Water Quality and Treatment

2 T.C.H.* (.2 CEU)

1:00 PM to 3:00 PM

Price: \$100.00 includes course materials and Expo lunch

Cyanobacteria in Reservoirs: Causes, Consequences, Controls

Robert Kortmann, Ph.D. - Ecosystem Consulting Service, Inc.

Cyanobacteria are prokaryotes that have evolved a variety of adaptations to out-compete other groups of algae. This presentation discusses a variety of successful reservoir management approaches for the reduction, avoidance, or elimination of Cyanobacteria blooms that have been developed over the past 30 years.

Pilot Testing Post Filter High Rate Manganese Contactors

Richard Stevens, Manager, Groton Utilities

John P. Beckley, P.E., Senior Engineer, Fay, Spofford & Thorndike

Groton Utilities has found that final effluent concentrations at or slightly below the SMCL of 0.05 mg/l result in colored water events in the distribution system and customer complaints, so the use of manganese contactors was examined. The results of piloting testing alternative media at rates up to 15 gallons per minute per square foot and the design criteria for full-scale absorbers as part of a \$35 million plant upgrade will be discussed.

Repairs to Clearwell at the Wallingford Pistapaug Water Treatment Plant

Mariusz Jedrychowski, Wright-Pierce

Wallingford's Pistapaug Water Treatment Plant was constructed in 1993. It is rated for a 12 MGD flow and it provides potable water to the Town of Wallingford. Chemical seeping through cracks in the concrete secondary containment areas and its chemical-resistant coating have caused extensive spalling of the floor and finish water clearwell ceiling below, and corrosion of the reinforcing steel matting. Following an initial assessment and the design phase of the project, recommended structural repairs were made, including a new liner.

Section B-1: Distribution Operations

2 T.C.H.* (.2 CEU)

9:00 AM to 11:00 AM

Price: \$100.00 includes course materials and Expo lunch

Holistic Distribution System Assessment and Planning

Chuck Wilson, P.E. Hazen and Sawyer

This presentation describes an asset-management based approach to water system assessment and repair, which combines traditional conditions assessments and modeling data with potential risk and level of consequences to prioritize system improvements. Concepts are demonstrated through a case study involving the assessment of discrete segments of a PCCP water transmission main in Westchester County, NY.

The East Lyme - New London Interconnection Project: Thinking Outside the Box to Determine a Regional Solution to a Local Problem

George S. Kansas, P.E., Tighe and Bond

The Town of East Lyme, Connecticut has been experiencing summer water shortages for more than twenty years due to the influx of visitors who come to enjoy the Town and waterfront. After considering numerous alternatives to relieve the water shortage situation in the summer, the East Lyme Water & Sewer Commission has elected to design and construct an interconnection project with the City of New London. This landmark project includes an elevated water storage tank, two pump stations and a four-mile transmission main.

Challenges of Water Tunnels in Dense Urban Environments: Case Study of Activating the New York City Water Tunnel No. 3

Patrick Parault, ARCADIS

Jennifer Chen, ARCADIS

John McCluskey, New York City Department of Environmental Protection

Michael Mondello, ARCADIS

The New York City Department of Environmental Protection (DEP) operates this system where approximately 1.1 billion gallons of drinking water is supplied to over 9 million people. Among DEP's most innovative and complex programs is City Tunnel No. 3, which when completed will greatly improve system resiliency and allow DEP to shutdown, inspect, and repair other tunnels that have been in service for nearly a century. This presentation will discuss the unique features of Tunnel No. 3 as well as some of the challenges that were overcome to ensure its successful activation.

Section B-2: Distribution Operations

2 T.C.H.* (.2 CEU)

1:30 PM to 3:40 PM

Price: \$100.00 includes course materials and Expo lunch

Connecticut Department of Public Health: Regulatory Update

Connecticut Department of Public Health- Drinking Water Division Staff

DPH staff to present on regulations and other various topics.

Contingency Planning – How Much Redundancy is Enough?

John T. Krawczyk, P.E., Vice President, Fay, Spofford & Thorndike

In 2008, the Massachusetts Water Resources Authority commissioned a study to assess impacts associated with the loss of its major water transmission mains. The findings resulted in a comprehensive capital improvement program that would ensure an adequate and reliable water supply under a number of system emergency scenarios. This paper presents the methodology employed in the study. It focuses on defining appropriate level of service goals and discusses how these goals impact the evaluation and selection of system improvement alternatives. While the study was performed for a large, regional water supplier, its concepts are applicable to any size water system.

Advancement of Condition Assessment Techniques for Large Diameter Pipelines

Mike Funk, Pure Technologies

Condition assessment of aging pipelines is a continual challenge in The United States and around the world. This presentation describes a toolbox approach required for the variety of pipeline materials and conditions encountered for large diameter pipelines.

Section C-1: Management

2 T.C.H.* (.2 CEU)

9:00 AM to 11:00 AM

Price: \$100.00 includes course materials and Expo lunch

Reduce Power Costs and Increase Funding Opportunities

Jen Muir, P.E. - JKMuir LLC

There is substantial funding available in the state of Connecticut for capital improvements projects that result in energy savings. Successful projects, at Connecticut water facilities, that have received funding using these programs will be presented, along with the best approach to identify savings opportunities and apply for grants.

Water Utilities and Community Engagement

Craig Patla, Connecticut Water Company

A robust communications structure and plan is critical in establishing and maintaining relationships and awareness amongst the communities we serve and our customers. As a leader and partner within the community, the CT Water Company has made hefty investments in enhancing and strengthening our ability to reach our customers not only during critical times but also to convey information that will keep them aware of matters such as rates, infrastructure criticality, and who we are.

Climate Change and Water Quality - Impact on Water Treatment

Ben Stanford, Ph. D. Hazen and Sawyer

There is no longer any scientific doubt that our climate is changing. The earth is experiencing a warming trend. The purpose of this paper is to present results from a recent Water Research Foundation study that is evaluating the impact of climate change and extreme weather events on water quality and treatment. The particular focus will be on utilities in the Northeast.

Section C-2: Management

2 T.C.H.* (.2 CEU)

1:00 PM to 3:00 PM

Price: \$100.00 includes course materials and Expo lunch

Flood Hazard Evaluation and Resiliency in the Era of Extreme Weather and Climate Change

Peter Baril, GZA

Recent natural events have brought an increased awareness to protecting key infrastructure from extreme weather events. This presentation will highlight engineering evaluation techniques and lessons learned from flood hazard assessments and mitigation work performed for the nuclear power industry and their application for critical water infrastructure activities.

Solar at SCCRWA

Bub Rudd - Solar City

Jim Flynn - Regional Water Authority

The South Central Connecticut Regional Water Authority (SCCRWA) and Solar City are currently implementing a 1 MW solar project on land owned by SCCRWA in Hamden, CT. This presentation will use the SCCRWA solar project as a case study from which we will outline the structure of the CT solar market and how other water providers could potentially benefit from these types of projects.

A Case Study- The Benefits of Business Continuity Planning

Kate Novick, Gradient Planning

Find out how to develop your own business continuity plan using new tools for water and wastewater utilities. Reaping the benefits of business continuity planning has never been more accessible.

Vendor Expo

8:00 AM – 3:00 PM

Location: Grand Ballroom

FREE ADMISSION

The 2014 Vendor Expo is your chance to see the latest in techniques and equipment from dozens of vendors and specialists to the drinking water industry. For many attendees, the knowledge gained and the contacts made at the vendor expo make attendance at ATCAVE extra valuable.

Product Demonstrations

Product demonstrations are held throughout the day. Please consult the information board near registration to find listing, location and times.

Fresh Ideas

The CTAWWA Young Professionals Committee hosts "Fresh Ideas," a nationwide competition with a goal of increasing new member involvement in AWWA, encouraging young professional participation from all areas of the water industry, stimulate progressive thinking and reduce the financial hardship for new members who want to attend the AWWA Annual Conference and Exposition (ACE). Topics presented through Fresh Ideas at ATCAVE in the past have ranged from methods to monitor, model, and remove microbes and contaminants to treatment plant design. In 2014, the Connecticut Section Fresh Ideas contest will be a poster session located in the main hallway near the end of the Expo.

General Expo Luncheon

11:30 AM – 1:30 PM

Individual tickets available for \$25.00

(Please note that all programs are subject to change)

**Application for T.C.H credits for CTAWWA classes pending +Application for Drinking Water Section DPH T.C.H. credits pending and approval pending for contact hours for food inspector recertification.*



ATCAVE Technical Training Registration Form

Annual Technical Conference and Vendor Expo
Connecticut Section—AWWA

March 4, 2014, Coco Key Water Resort, Hotel and Convention Center, Waterbury, CT

Name:	Phone:	
Street Address:		
City:	ST:	ZIP:
Company / Organization:		
Email address:		
CTAWWA Member #:		

Instructions:

- 1) Fill out upper selection, including company name / organization, phone number and email address.
- 2) Select desired sessions. Please be sure to check ALL boxes for each selection.
- 3) Complete the payment section on the second page of the registration form.
- 4) Return to address listed on the second page with appropriate payment.
- 5) Online registration and payment available at www.ctawwa.org.

Special Offering: Lunch is included. Select a morning and an afternoon session and pay only \$150.00 for members and \$200 for non members.

Small Systems: CTAWWA will be offering scholarships to operators of Small Systems. CTAWWA will follow the CT DPH guidelines for the determination of a small system. Please note: The scholarship covers the course registration and course material, but does not include lunch. A lunch ticket must be purchased separately

Group Discounts: Group Discounts are available. Please contact Kevin Barber 203-866-4446 ext 2031, or kbarber@snew.org for details.

Section	Topics	CEUs	Time	Price	Select	
Water Quality and Treatment Program						
A-1	<ul style="list-style-type: none"> • Dewatering Application Using Geotextile Dewatering Structures • Upgrading Woburn's Horn Pond Water Treatment Plant • Connecticut Department of Public Health: Regulatory Update 	.2	8:30 am to 10:40 am	Member	\$100.00	<input type="checkbox"/>
				Non Member	\$125.00	<input type="checkbox"/>
				Small Systems ¹	\$0.00	<input type="checkbox"/>
A-2	<ul style="list-style-type: none"> • Cyanobacteria in Reservoirs: Causes, Consequences, Controls • Pilot Testing Post Filter High Rate Manganese Contactors • Repairs to Clearwell at the Wallingford Pistapaug Water Treatment Plant 	.2	1:00 pm to 3:00 pm	Member	\$100.00	<input type="checkbox"/>
				Non Member	\$125.00	<input type="checkbox"/>
				Small Systems ¹	\$0.00	<input type="checkbox"/>

¹ Lunch not included with Small System Scholarship. Lunch Ticket must be purchased separately.

For additional course offerings, see reverse side of Registration Form

Please continue the ATCAVE Registration on reverse side of page.

ATCAVE Technical Training Registration Form – Continued

Distribution Operations Program						
B-1	<ul style="list-style-type: none"> Holistic Distribution System Assessment and Planning The East Lyme – New London Interconnection Project: Thinking Outside the Box to Determine a Regional Solution to a Local Problem Challenges of Water Tunnels in Dense Urban Environments: Case Study of Activating the New York City Water Tunnel No. 3 	.2	9:00 am to 11:00 am	Member	\$100.00	<input type="checkbox"/>
				Non Member	\$125.00	<input type="checkbox"/>
				Small Systems ¹	\$0.00	<input type="checkbox"/>
B-2	<ul style="list-style-type: none"> Connecticut Department of Public Health: Regulatory Update Contingency Planning—How Much Redundancy is Enough Advancement of Condition Assessment Techniques for Large Diameter Pipelines 	.2	1:30 pm to 3:40 pm	Member	\$100.00	<input type="checkbox"/>
				Non Member	\$125.00	<input type="checkbox"/>
				Small Systems ¹	\$0.00	<input type="checkbox"/>
Management Program						
C-1	<ul style="list-style-type: none"> Reduce Power Costs and Increase Funding Opportunities Water Utilities and Community Engagement Climate Change and Water Quality – Impact on Water Treatment 	.2	9:00 am to 11:00 am	Member	\$100.00	<input type="checkbox"/>
				Non Member	\$125.00	<input type="checkbox"/>
				Small Systems ¹	\$0.00	<input type="checkbox"/>
C-2	<ul style="list-style-type: none"> Flood Hazard Evaluation and Resiliency in the Era of Extreme Weather and Climate Change Solar at SCCRWA A Case Study – The Benefits of Business Continuity Planning 	.2	1:30 pm to 3:30 pm	Member	\$100.00	<input type="checkbox"/>
				Non Member	\$125.00	<input type="checkbox"/>
				Small Systems ¹	\$0.00	<input type="checkbox"/>
Registration Note: If you selected a morning and an afternoon session, the total cost is only \$150 (members) or \$200 (non members).				Subtotal: \$		

¹ Lunch not included with Small System Scholarship. Lunch Ticket must be purchased separately.

LUNCH TICKETS	Lunch in the Grand Ballroom Only <i>(for Vendor Show only, Small Systems or if you are attending non-educational events)</i>	Quantity: _____ @ \$25.00 ea	Total Lunch:	
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Please make checks payable to: CTAWWA
and mail along with this form to:

Total Fee enclosed:	
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CTAWWA - ATCAVE Registration
944 Prospect St
Naugatuck, CT 06770

Further information can be obtained by
calling (203) 714-6096 or
emailing: ctawwa@snet.net

Registrations can also be faxed to: 203-725-0445

CREDIT CARD INFORMATION – All fields must be completed				
Name on Credit Card:				
Billing Address for Credit Card:				Zip Code:
Type of Payment: <input type="checkbox"/> MasterCard/Visa <input type="checkbox"/> AMEX <input type="checkbox"/> Discover			Signature:	
Credit Card #	Exp Date	CCV #	Amount to Charge to Credit Card: \$	

Check here if you have a disability and require accommodations to fully participate. You will be contacted by CTAWWA. For additional registrations, reproduce this form or call CTAWWA at (203) 714-6096.

Member: Any CTAWWA member (individual, utility or corporate) or DPH Small System. Memberships will be verified for purposes of registrations.

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- Enhanced Coagulation Studies
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- Polymer Application Evaluations
- Distribution System Sample Analysis

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www.coyneenvironmental.com

CTAWWA

Spring 2014 Training Schedule

Course selections for Spring 2014 are listed below. The CTAWWA Education 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 website, www.ctawwa.org, where you can also register online.

Education Co-Chairs:

Robert J. Longo
Bristol Water Department
Phone: 860-582-7431
e-mail: RobertLongo@ci.bristol.ct.us

Peter J. Grabowski
Tighe & Bond
Phone: 413-572-3234
E-mail: pjgrabowski@tighebond.com

CTAWWA Executive Manager:

Pam Monahan
Phone: 203-714-6096
Fax: 203-725-0445
E-mail: ctawwa@snet.net

PARTNERSHIP COURSES WITH NEWWA

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

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

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 Operation and Maintenance

Course Code: DVO314AC
Date: Wednesday, February 26, 2014
Location: MDC Training Center, Hartford
Time: 9:00 am – 4:00 pm
CEU: 0.6 CEU
Applicable for Distribution (D)

Course Description: This course will instruct you, step-by-step, in the proper procedures for inspection, testing and maintenance of 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 feature a “Hands-On” instructional component where participants “tear down” each type of valve.

This course is designed for all distribution system operation and management personnel, especially those responsible for the installation, inspection, maintenance and repair of mainline valves and water mains. It will enable experienced utility personnel to stay informed on current accepted practice as well as provide an orientation and overview for new water operators. If you have taken the NEWWA “Hands-on” Hydrant Maintenance Course, you will find “Hands-on” Valve Operation and Maintenance the next logical step in your distribution system operation education.

Registration Fee: CTAWWA Members: \$165.00;
Non-Members: \$205.00

Water System Hydraulics Overview

Course Code: BSH314AC

Date: Wednesday, March 12, 2014

Location: MDC Training Center, Hartford

Time: 9:00 am – 4:25 pm

CEU: 0.6 CEU

Applicable for Distribution and Treatment (D and T)

Course Description: Operators deal with both large volumes and significant water pressures. The purpose of “Water System Hydraulics Overview” is to help operators gain an understanding of key, basic hydraulic principles, how they impact a water system and the ramifications of corrosion on flow and pumping. The course will assist participants in developing a sound understanding of essential concepts as well as a strong foundation for their application in the field. Course material will be presented in units where general theory will precede application oriented small group problem solving sessions utilizing real world water system calculations. These small group problem solving sessions will complete each unit. Participants need NOT have taken a previous course in hydraulics to attend.

“Water System Hydraulics Overview” is an instructional program for drinking water operators. Other utility staff seeking an overview of and general background in water system hydraulics will also find this course of interest. EACH PARTICIPANT SHOULD BRING A POCKET CALCULATOR TO USE THROUGHOUT THE COURSE.

Registration Fee: CTAWWA Members: \$165.00 ;
Non-Members: \$205.00

Pumps and Pumping Overview

Course Code: DPP414AC

Date: Thursday, April 11, 2014

Location: MDC Training Center, Hartford

Time: 9:00 am – 4:00 pm

CEU: 0.6 CEU

Applicable for Treatment (T & D)

Course Description: This full-day seminar is designed to help participants develop an understanding of the basic concepts in safe operation and maintenance of pump stations. Sound procedures will be presented throughout the seminar with a focus on providing the new or seasoned station operator with straight- forward information regarding all major aspects of responsible station operation and maintenance. Beginning with an explanation of station components, this seminar will cover pump types, a basic orientation to safety, automation, water quality monitoring and record keeping. The goal of this seminar is to increase participant awareness of methods that are practical and useful in successfully operating and maintaining a pump station.

Water utility operations professionals who deal directly with their system’s pump stations and their operation and maintenance will find this seminar of interest. Water utility staff desiring a strong background in pump station O & M

fundamentals, including front line management professionals who directly supervise this critical component of water supply, will also find this program useful. Whether as a review for seasoned personnel, or an orientation for new staff, the straightforward agenda in this seminar will present important information that can be utilized in “real world” situations.

Registration Fee: CTAWWA Members: \$165.00 ;
Non-Members: \$205.00

Ethics and Drinking Water Operations

Course Code: TEO414AC

Date: Wednesday April 30, 2014

Location: MDC Training Center, Hartford

Time: 9:00 am – 12:30 pm

CEU: 0.3 CEU

Applicable for Treatment & Distribution (T&D)

Course Description: This class is designed to introduce the importance of ethics in the field of drinking water. Often times we are all face with the temptation to do something that we believe is harmless and will temporarily make our lives easier, but may be contrary to what we believe is “right”. By establishing a proper code of conduct, and training employees to follow that code, many of the temptations can be avoided. Starting with an explanation of what “ethics” entails, the class will define the steps in the creation of a code of conduct. Next, once the code is established, the methods of applying the code to everyday workplace situations will be discussed, then illustrated by a short exercise by the group of participants.

This training is for all water system employees, working for either public or private drinking water systems or organizations related to drinking water systems. The course will be of primary interest to operators, lab personnel and customer service employees. You will receive ample opportunity to ask questions, participate in hands-on exercises, and work closely with your instructor and the other students in the learning opportunity.

Registration Fee: CTAWWA Members: \$125.00 ;
Non-Members: \$165.00

“Hands-On” Bench Top Laboratory Skills

Course Code: BBT414AC

Date: Thursday May 15, 2014

Location: Groton Utilities, Groton

Time: 9:00 am – 4:15 pm

CEU: 0.6 CEU

Applicable for Treatment (T)

Course Description: This one day “hands-on” seminar will present an overview of key techniques utilized in drinking water analysis. Classroom instruction will be provided in each of the following analytic areas: pH, hardness, alkalinity, turbidity, chlorine residual, temperature, colorimetry / spectrophotometry, and microbiology. Attendees will attend four different “themed” laboratory workstations which will contain the appropriate lab equipment. Each workstation

will be directed by an instructor/facilitator who will provide a written standard operating procedure (SOP) for each test, and supervise and assist each group member in performing a given technique.

A straightforward overview approach will make it of interest to water utility operations personnel and those management professionals who wish to increase their awareness of basic water quality analysis.

Registration Fee: CTAWWA Members: \$165.00 ;
Non-Members: \$205.00

COURSES PRESENTED BY CTAWWA

The courses listed below are sponsored by the Connecticut Section of the American Water Works Association.

There is a listing of the course offerings on the website, www.ctawwa.org. You can fax the registration to (203) 725-0445, or register online (credit cards accepted). NEWWA does not accept registration for these classes.

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.

Water Treatment School*

Course Code: Spring 1401

Date: Class runs for 12 weeks beginning Tuesday, February 11, 2014

Location: MDC Training Center, Hartford

Time: 6:00 pm – 8:00 pm

APPLICATION FOR CEUs PENDING

Course description: Revamped, this course will cover all practical aspects of water treatment processes in general use today as well as basic mathematics, chemistry and hydraulics. Although there is no prerequisite for attending this course, each applicant must have basic mathematical ability including the use of fractions and decimals. In-class time will run approximately two hours, with additional work assigned for completion outside of class. There must be a commitment made by each student to complete these weekly assignments in order for the course to be effective.

Registration Fee: CTAWWA Members \$500.00;
Non-Members \$550.00

DPH Operator Certification

Course Code: Spring 1402, Spring 1403

Date: Wednesday, May 28, 2014

Location: Regional Water Authority, New Haven

Time: 9:00 AM – 3:30 PM

Course Description: This course will be a one-day review session to assist treatment plant and distribution system operators for the state certificate examinations. The morning review session will focus on treatment plant operations, and the afternoon session will focus on distribution system operations. Attendees should bring a calculator to the review session and will be provided with a copy of AWWA's Operator Certification Study Guide (5th edition).

Exam applications are available on the DPH Drinking Water Section website: www.ctgov/dph. From there, click on "Drinking Water," then "Certified Operators," then "Exam Information." For more information, contact the Connecticut Department of Public Health at (860) 509-7333.

No Book: CTAWWA Member \$120.00; Non-Member \$160.00

With Book: CTAWWA Member \$160.00; Non-Member \$200.00

DPH Testing Dates

EXAM DATE #1	Testing Date	Application Due
Small Water System	6/10/14*	4/29/14*
Water Treatment Plant Operator	6/10/14*	4/29/14*
Distribution System Operator	6/11/14*	4/29/14*

*NOTE: DPH Test dates are tentative.

Business Writing for Everyone

Course Code: Spring 1404

Location: Bristol Water Treatment Plant, Bristol

Date: Tuesday, February 4, 2014

Time: 9:00 AM – 4:15 PM

CEU: 6.0 TCH (0.6 CEU)

Applicable for Treatment & Distribution (T&D)

Course Description: Water operators must be able to write effectively in order to relay information with clarity, conciseness and command. They need to understand and tap into the power of the written word. This full-day course teaches the logic and mechanics to choose the appropriate written communication style and how to avoid common pitfalls of written communication. Target audience: Written communication skills are a must for water operators of all levels. This is an excellent course for managers and operators who want to improve their effectiveness.

Registration Fee: CTAWWA Members: \$160.00;
Non-Members: \$200.00

Business 101

Course Code: Spring 1405

Location: TBA

Date: TBA

Time: 9:00 AM – 4:15 PM

CEU: 6.0 TCH, (0.6 CEU)

Applicable for Treatment & Distribution (T&D)

Course Description: Water operators benefit from understanding just how a business works so that they may better appreciate the business decision making process. This full-day course presents to the student the nature of a business and what the risks associated with a large business operation such as a utility are, and how risk is managed. Basic concepts in business organization and operation, form of business, why businesses exist, how businesses are organized, and how the money come in and goes out will be addressed. Upon completion of the course, the student will have a better appreciation for how business decisions are made.

Registration Fee: CTAWWA Members: \$160.00;
Non-Members: \$200.00

Water Treatment Plant Process - Mathematics and Chemistry*

Course Code: Spring 1406

Date: Tuesday, April 15, 2014

Location: MDC Training Center, Hartford

Time: 8:30 am – 3:00 pm

CEU: .5 CEUs, 5 TCHs,

Applicable for Treatment (T)

Course Description: This course will present a review of basic math concepts and solving for unknown quantities. Calculations for area and volumes will be covered with their relation to plant process operations including surface loading rates, filters and backwash rate computations. Atomic structure, elements, compounds and chemical use calculations will be covered under basic chemistry. This class is structured to provide an introduction for new operators as well as a refresher for the more experienced plant operator.

Registration Fee: CTAWWA Members: \$160.00;
Non-Members: \$200.00

Responsible Management of Watershed Lands*

Course Code: Spring 1407

Location: MDC Training Center, Hartford

Date: Tuesday, April 29, 2014

Time: 8:15 AM – 12:30 PM

CEU: 4.0 TCH, (0.4 CEU)

Applicable for Treatment & Distribution (T&D)

Course Description: The seminar will be to inform the state's drinking water suppliers about the many resources that are available to assist and advise them in their efforts to manage their critically important watershed properties. Topics include: DPH source water protection strategies, invasive plants and wildlife management, UCONN's Center for Land Use Education and Research, DEEP Watershed Management Planning.

Registration Fee: CTAWWA Members: \$120.00;
Non-Members: \$160.00

Best Practices in Customer Service

Course Code: Spring 1408

Location: MDC Training Center, Hartford, CT

Date: Tuesday, May 6, 2014

Time: 9:00 AM – 4:15 PM

CEU: 6.0 TCH (0.6 CEU)

Applicable for Treatment & Distribution (T & D)

Course Description: Effective customer service in all areas of the water industry is an integral part of public water safety. This class will transform the average water supply employee into an effective tool for decisive action in the water industry. Attendees will learn how to say what you do, when to listen and when to talk, how to identify the real issues, identifying trigger points – making decisions simpler, and how to gain closure in every instance. Topics that will be covered include: honesty in customer relationships, listening skills, top notch telephone skills, knowing your boundaries, and commitment to follow-up.

Registration Fee: CTAWWA Members: \$160.00;
Non-Members: \$200.00

Confined Space Entry

Course Code: Spring 1409

Date: Thursday, May 22, 2014

Location: Regional Water Authority, New Haven

Time: 8:00 AM – 12:15 PM

CEU: 4.0 TCH (0.4 CEU)

Applicable for Treatment (T)

Course Description: Water utilities must develop, maintain and provide continual training for operators on safe entry of confined spaces. Injuries and deaths can be avoided by following the proven protocols and procedures provided by OSHA regulations. Each attendee that completes this class will receive a "Permit Required Confined Space Entry Training Certification". This course provides thorough instruction in safe confined space entry. Each protocol and procedure is covered in detail with case histories, explanation, and step-by-step solutions to everyday confined space challenges. Some of the topics that will be covered include: Explanation of OSHA

1910.146 Permit Required Confined Spaces, Construction Requirements – Confined Space Entry, How confined spaces are classified, Alternate Procedures for entering a permit space, Hazards associates with confined spaces and how to eliminate them, Confined space permit requirements, 12 general safety requirements, including atmospheric and ventilation testing, Non Entry rescue - Emergency Procedures, Requirements for Entry Rescue, Review of confined space equipment and atmospheric monitoring devices. This training is applicable for operators of all-sized public water systems.

Registration Fee: CTAWWA Members \$120.00;
Non-Members \$160.00

*Subject to DPH approval for TCH hours.



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SPRING 2014 CTAWWA/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.**

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		CT Section / NEWWA Member # (if applicable) 	

PART II - COURSE LISTING

✓	Course Code	Course Title	Date/Time	Fee
	DVO314AC	“Hands-On” Valve Operation & Maintenance MDC Training Center, Hartford	February 26, 2014 (9:00 am-4:00 pm)	\$165.00/ \$205.00
	BSH314AC	Water System Hydraulics Overview MDC Training Center, Hartford	March 12, 2014 (9:00 am-4:15 pm)	\$165.00/ \$205.00
	DPP414AC	Pumps and Pumping Overview MDC Training Center, Hartford	April 10, 2014 (9:00 am- 4:00 pm)	\$165.00/ \$205.00
	TEO414AC	Ethics and Drinking Water Operations MDC Training Center, Hartford	April 30, 2014 (9:00 am-12:30 pm)	\$125.00/ \$165.00
	BBT414AC	“Hands-On” Bench Top Laboratory Skills Groton Utilities, Groton	May 15, 2014 (9:00 am- 4:15 pm)	\$165.00/ \$205.00
		Add \$20.00 late fee if registering within 2 days of the class date	~ ~ ~ ~ ~	
<input type="checkbox"/> Check here if you have a disability and require accommodations to fully participate. . ♿				TOTAL

PART III - METHOD OF PAYMENT

Type of Payment			Amount (from TOTAL FEE above)
<input type="checkbox"/> Check (Payable to NEWWA) <input type="checkbox"/> P.O.# _____ <input type="checkbox"/> MasterCard/Visa <input type="checkbox"/> AMEX			\$
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.

Holiday Party 2013

Each year, CTAWA and CWWA hold a luncheon in December to thank the scores of people who volunteer their time to make the two associations successful.

Once again this year, the event was held at Sage American Grill and Oyster Bar in New Haven. December 6 was a rainy, cold day but the spirit that prevailed during the lunch was about as warm and friendly as it could be.

The view of New Haven harbor is wonderful even in poor weather and the food was, as always, simply excellent.



Besty Gara, Len DeJong and Maureen Westbrook.



Lunch with friends and colleagues; what better way to celebrate the holidays?



There weren't quite as many red ties among the guys this year but when you are among friends, who cares?



Are those holiday smiles or what?



CTAWWA's long-time Treasurer Kevin Barber appears to have a blank check at the ready.

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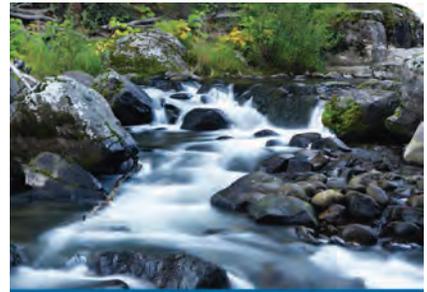
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To: Connecticut Section AWWA Members
From: Kathy Fortin, Secretary
Date: March 31, 2014
Subject: Election of Section Officers

Listed below is the proposed 2014-2015 slate of Officers for the Connecticut Section AWWA:

Chair	One Year Term	Fred Rogers
Vice Chair	One Year Term	Steve Rugar
Past Chair (a)	One Year Term	Steve Melanson
Secretary	One Year Term	Kathy Fortin
Treasurer	One Year Term	Christine Saball
2nd Year Trustee (b)	2nd of a Two Year Term	Tom Loto
1st Year Trustee	Two Year Term	Robert Longo
National Director (c)	Three Year Term	Dan Lesnieski

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

Article VII and VIII of the Section's By-laws govern the election and nominations process and may be viewed at our web site, 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 e-mail to kfortin@snew.org

If no further nominations are received by April 20, 2014, I will cast a ballot for the above slate and issue a notice to the membership via the next available issue of the Section magazine.

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CTAWWA Scholarships

The CTAWWA Associates Committee has announced the availability of undergraduate or graduate level scholarships for individual CTAWWA members or their children/dependents. Scholarships are available in two areas: general studies and those focused on a waterworks career.

The deadline for scholarship applications is March 14, 2014. Questions should be directed to Len Assard at 860-274-5468 or lassard@eheitkamp.com

2014 Connecticut Section AWWA Associates Committee General Scholarship Program

Thanks to the generosity of the Associates Committee and especially the Section Enhancers

Applications are now being accepted for the CT Section AWWA Associates Committee General Scholarship Program, from CT Section AWWA members or their children/dependents, who have not previously been awarded a CT Section AWWA scholarship. High School seniors and students currently enrolled in an education program beyond the secondary level in a 2 year, 4 year or graduate program are eligible. Student members of CT AWWA are also eligible.

Awards will be based on academic performance, participation in school and community activities, application completeness and autobiographical sketch.

To be considered for this year's award, applications must be received by Friday, March 14, 2014.

Applicants must submit a completed application form and the following information:

- **A transcript of your high school record and college record, if applicable**
- **A typed and signed autobiographical sketch highlighting:**
 - Your accomplishments, interests, hobbies, future plans; and**
 - The name of the last book you read, why you read it, and its significance to you.**
- **Identify a person (not a relative) who has most influenced you and explain why.**
- **Identify any special circumstances that you wish to be considered that may distinguish you from other applicants. These may include but are not limited to obstacles you have overcome, academic goals, interests, advancements, financial constraints, etc.**

For an application and additional information, please visit www.ctawwa.org

Completed applications must be returned to:

Associates Committee Scholarship Program
c/o Leonard Assard
Heitkamp, Inc
PO 730
99 Callender Rd
Watertown, CT 06795

**2014 CT Section AWWA
Associates Committee General Scholarship Application**

Personal Data

Name: Last _____ First _____ Middle Initial: _____

Permanent Home Address: _____

Phone Number: () _____ Email Address: _____

CTAWWA Relationship: (Name) _____ Relationship: _____

Relationship's AWWA member # _____

Academic Data

High School Data

High School: _____ Graduation Year: _____

City: _____ State: _____

Class Rank _____ of _____

College Data

Plan to attend: _____ Currently attend: _____

Type of school: 2 Year 4 Year Graduate Other

Major: _____ Anticipated Graduation Year: _____

Employment History (past two years)

(1) Name of Employer: _____

City: _____ State: _____ Type of Job: _____

Dates of Employment: from _____ to _____ Average no. of hours per week: _____

(2) Name of Employer: _____

City: _____ State: _____ Type of Job: _____

Dates of Employment: from _____ to _____ Average no. of hours per week: _____

Extracurricular Activities

School

Describe up to four school activities (clubs, sports, etc.) that are most significant to you that you have participated in during the past two years.

Name of Activity	Leadership Position	Year(s)

Community

Describe up to four community activities (community service, volunteerism, etc.) that are most significant to you that you have participated in during the past two years.

Name of Activity	Year(s)

Academic awards or honors received: _____

Applicant's Signature

Date

In addition to the completed questionnaire, a complete application **MUST** include:

- **A transcript of your high school record and college record, if applicable**
- **A typed and signed autobiographical sketch highlighting:**
 - Your accomplishments, interests, hobbies, future plans; and**
 - The name of the last book you read, why you read it, and its significance to you.**
- **Identify a person (not a relative) who has most influenced you and explain why.**
- **Identify any special circumstances that you wish to be considered that may distinguish you from other applicants. These may include but are not limited to obstacles you have overcome, academic goals, interests, advancements, financial constraints, etc.**

Scholarships may vary in amount and will be awarded to high school seniors or candidates currently enrolled in an educational program beyond the secondary level who are members or children/dependents of **an individual member of the Connecticut Section AWWA**. Students who have received a CT Section AWWA Enhancer Scholarship in a prior year are **NOT** eligible. Awards will be based on academic performance, participation in school and community activities, application completeness and your autobiographical sketch. The scholarship award winners may be announced in April at the Connecticut State Capitol in association with the Connecticut Water Works Association.

If there are any questions about the process, please contact Leonard Assard, at 860-417-0415, lassard@eheitkamp.com

To be considered for this year's award, applications must be received by end of business, Friday, March 14, 2014.

BE SURE TO MARK THE ENVELOPE: "Associates Committee General Scholarship Application"

Completed applications **MUST** be directed to:

Associates Committee Scholarship Program
c/o Leonard Assard
Heitkamp, Inc
PO 730
99 Callender Rd
Watertown, CT 06795

2014 Connecticut Section AWWA Associates Committee Waterworks Career Scholarship Program

Thanks to the generosity of the Associates Committee and especially the Section Enhancers up to \$2,000.00 will be awarded to a student pursuing a career in the Waterworks field

Applications are now being accepted for the CT Section AWWA Associates Committee Waterworks Career Scholarship Program, from CT Section AWWA members or their children/dependents. Student members of the CT Section AWWA meeting the criteria below are also eligible. This scholarship is open to undergraduate students entering their junior or senior year or graduate students enrolled in an accredited water related program of study.

Awards will be based on academic performance, participation in school and community activities, application completeness and autobiographical sketch.

To be considered for this year's award, applications must be received by Friday, March 14, 2014.

Applicants must submit a completed application form and the following information:

- **A transcript of your college record.**
- **A typed and signed autobiographical sketch highlighting:**
 - What piqued your interest in your chosen field,**
 - What you plan to do in the future,**
 - Your accomplishments, interests, hobbies; and**
 - The name of the last book you read, why you read it, and its significance to you.**
- **Identify a person (not a relative) who has most influenced you and explain why.**
- **Identify any special circumstances that you wish to be considered that may distinguish you from other applicants. These may include but are not limited to obstacles you have overcome, academic goals, interests, advancements, financial constraints, etc.**

For an application and additional information, please visit www.ctawwa.org

Completed applications must be returned to:

Associates Committee Scholarship Program
c/o Leonard Assard
Heitkamp, Inc
PO 730
99 Callender Rd
Watertown, CT 06795

**2014 CT Section AWWA
Associates Committee Waterworks Career Scholarship Application**

Personal Data

Name: Last _____ First _____ Middle Initial: _____
 Permanent Home Address: _____
 Phone Number: () _____ Email Address: _____
 CTAWWA Relationship: (Name) _____ Relationship: _____
 Relationship's AWWA member # _____

Academic Data

High School Data

High School: _____ Graduation Year: _____
 City: _____ State: _____
 Class Rank _____ of _____

College Data

Currently attend: _____
 Type of school: 4 Year Graduate Other
 Major: _____ Anticipated Graduation Year: _____

Employment History (past two years)

(1) Name of Employer: _____
 City: _____ State: _____ Type of Job: _____
 Dates of Employment: from _____ to _____ Average no. of hours per week: _____

(2) Name of Employer: _____
 City: _____ State: _____ Type of Job: _____
 Dates of Employment: from _____ to _____ Average no. of hours per week: _____

Extracurricular Activities

School

Describe up to four school activities (clubs, sports, etc.) that are most significant to you that you have participated in during the past two years.

Name of Activity	Leadership Position	Year(s)

Community

Describe up to four community activities (community service, volunteerism, etc.) that are most significant to you that you have participated in during the past two years.

Name of Activity	Year(s)

Academic awards or honors received: _____

Applicant's Signature Date

In addition to the completed questionnaire, a complete application **MUST** include:

- **A transcript of your college record.**
- **A typed and signed autobiographical sketch highlighting:**
 - What piqued your interest in your chosen field,**
 - What you plan to do in the future,**
 - Your accomplishments, interests, hobbies; and**
 - The name of the last book you read, why you read it, and its significance to you.**
- **Identify a person (not a relative) who has most influenced you and explain why.**
- **Identify any special circumstances that you wish to be considered that may distinguish you from other applicants. These may include but are not limited to obstacles you have overcome, academic goals, interests, advancements, financial constraints, etc.**

Scholarships may vary in amount and will be awarded to college level junior, senior or graduate level candidates currently enrolled in an accredited Civil Engineering or other water related educational program who are members or children/dependents of **an individual member of the Connecticut Section AWWA**. Student members of the CT Section AWWA are also eligible. The scholarship award winners may be announced in April at the Connecticut State Capitol in association with the Connecticut Water Works Association. Previous scholarship winners are not eligible for an additional award.

If there are any questions about the process, please contact Leonard Assard, at 860-417-0415, lassard@eheitkamp.com

To be considered for this year's award, applications must be received by end of business, Friday, March 14, 2014.

BE SURE TO MARK THE ENVELOPE: "Waterworks Career Scholarship Application"

Completed applications **MUST** be directed to:

Associates Committee Scholarship Program
c/o Leonard Assard
Heitkamp, Inc
PO 730
99 Callender Rd
Watertown, CT 06795

Seeing Red (Tape)?

Tired of being mired in redtape? Are burdensome reporting requirements taking up too much of your time?

To help address these concerns, Governor Dannel Malloy issued Executive Order 38 asking for input on which regulations are outdated, unnecessarily burdensome or just plain ineffective. CWWA took advantage of the opportunity to compile a list of regulations and policies that our members find frustrating and burdensome.

Water Supply Plans

Topping the list is Water Supply Plans. CWWA urged the Governor's Office to address delays in reviewing and approving Water Supply Plans, which are required to be prepared and submitted to the state Department of Public Health (DPH) by water companies serving 1,000 or more persons. CWWA recommended 1) narrowing the scope of the plans to data that is relevant to water supply planning; 2) standardizing the format for plan submittals; 3) eliminating requests for information which are already on file with DPH; and 4) ensuring that plans are reviewed and approved within one year from submittal. To its credit, DPH has been trying to reformat the water supply plans but, unfortunately, this effort has gotten bogged down due, in part, to the department's limited staff.

WUCC Process

Another issue that CWWA raised was the Water Utility Coordinating Committee (WUCC) process. Although the WUCC governing laws have been in effect since 1985, only four of the seven WUCCs have been convened and only one plan has been approved. CWWA recommends that DPH review the regulations for Public Water Supply Coordination to 1) streamline the process; 2) consolidate the Public Water Supply Management Areas; and 3) ensure that plans are completed and approved for the entire state.

Change of Use Permits

CWWA members also identified Change of Use permits as a source of frustration. Under the current process, one shovel of dirt at a wellfield could trigger the need for a change of use permit. CWWA recommends limiting the activities that trigger a "Change of Use" permit from the state Department of Public Health to land use activities that are substantially different from the current use of the property for water supply purposes or activities that could potentially affect the purity and adequacy of the potable water supply. Maintenance and/or upgrades to existing water utility infrastructure should not require a permit.

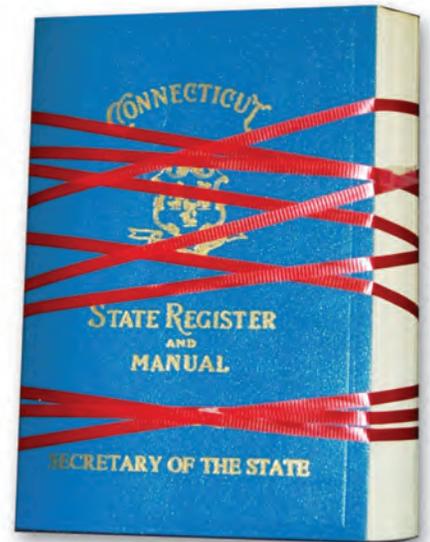
Licensed Water Professionals

How can state agencies, whose staffs have been cut, address delays in reviewing and processing plans, permits and other applications? CWWA hopes that the state will consider developing a Licensed Water Professional Program, modeled after the successful Licensed Environmental Professional program, to expedite agency reviews and approvals. This program could significantly reduce state costs by reducing the administrative burden on staff while improving the regulatory climate in Connecticut by eliminating unnecessary bureaucratic delays.

Infrastructure Funding

Regulatory programs to help fund infrastructure and water quality projects could also be updated to better meet the public water supply needs of Connecticut residents and businesses. For example, the "471" regulations should be revised to ensure that funding programs for water system solutions in towns where wells have been contaminated allow for adequate size and capacity to meet water supply and fire protection needs. Also, the state should create a viable funding mechanism for water quality improvement projects by updating the program authorized under Section 25-33a, CGS.

CWWA also recommended that the state create an ongoing process to obtain input on burdensome/outdated regulations. For a complete list of CWWA recommendations, contact Betsy Gara at gara@gmlobbying.com. And, if you have any ideas for additional recommendations, let us know.



Mark your calendars for the Spring, 2014 Joint Conference

The conference will be held on May 21-23 at The Equinox Resort in beautiful Manchester, Vermont. The American Water Works Association will be represented at the conference by AWWA Immediate Past President Charles Anderson.



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F. Adam Yanulis Joins Tighe & Bond

F. Adam Yanulis joined Tighe & Bond, Inc. on December 13 as the firm's newly appointed Director of Business Development. With more than 28 years of providing leadership to the public sector engineering community in New England, Yanulis will enhance Tighe & Bond's abilities to serve its public sector clients in the region.

Given his active and local experience in the industry, Yanulis will be a familiar face to many in the public sector and the region. Over the years, he has worked closely with numerous municipalities to facilitate engineering and environmental solutions for water resource, stormwater, environmental, and other infrastructure challenges. He will work primarily out of Tighe & Bond's Worcester, MA office but his involvement will be region-wide.

"Adam is a widely recognized professional in the industry who holds the client's best interest in mind, and is also very civic-minded. Needless to say, he is a welcome addition to our team, with local experience, knowledge, and a perspective that will benefit our clients," said David Pinsky, President and CEO of Tighe & Bond.

Yanulis serves as a Commissioner for the New England Interstate Water Pollution Control Commission, and sits on the Board of Directors of the Waterworks Museum in Chestnut Hill and the New England Water Works Association. He is also co-chair of the New England Water Works Association's ACE 2014 Host Committee planning for the American Water Works Association's Annual Conference to be held in Boston in June. In addition, he is a member of the Massachusetts Water Infrastructure Finance Commission Steering Committee.

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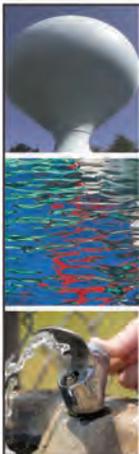


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