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

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The Southington Water Company: An Interesting History page 10

What's at the bottom of your water tank? Find out on page 6

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From the CWWA President



his past holiday season, my wife was rummaging about the attic looking for empty boxes while talking on the phone to her sister when she stepped between two joists and through the ceiling of an upstairs bedroom – for the second time. In... the...same...spot. And I don't mean wimpy little crack misstep; I am talking gaping hole, scattered

drywall debris, and dangling limbs like you might see in some television sit-com. Minus the laugh-track.

The first time it happened, I gritted my teeth, more or less – well, less – and got on with the job of patching and painting. This time I am holding off on any repair work until the federal infrastructure investment stimulus package is fully authorized. I've identified it as a shovel-ready, high priority project and am fairly certain I will soon receive funding. I know I could use a stimulus.

My wife's female friends' response to hearing of this latest mishap has been strikingly consistent. Their response, in essence, has been to point out to me that since my wife fell through the spot once before, it was obvious that I should have expected her to do it again. And oh, by the way, what was wrong with me that I didn't put plywood down over that part of the attic? I find this response curious and chalk it up to one more thing about women that totally mystifies me. At the same time, I've added several sheets of 5/8 inch plywood to my shovel-ready project list.

About the time my wife was redecorating our upstairs, my son, Daniel, and I were going through a spate of card playing. We tried out various games and eventually settled on two that he took a shine to. The first, Slapjack, is fairly common among children and requires quick reflexes – or at least reflexes quicker than your opponent – in order to 'slap' the picture card jacks when they are turned face up. The other game, called Beggar-your-neighbor, is an obscure game best described as a variant of the more well-known classic, War, where players attempt to collect all the cards in the deck by simply flipping over cards having a higher face value than their opponent. Beggar-your-neighbor has more complex rules, but like War, can go on interminably.

On about our second day of card playing, Daniel pronounced that one can divide card games into either 'skill games' or 'hope games'. When I asked him what he meant, he replied that Slapjack was a skill game – you had to be faster than your opponent – whereas Beggar-your-neighbor was a hope game – you hope that you have a good card. I was on the verge of explaining that games like Beggar-your-neighbor are more commonly referred to as games of chance. Then I hesitated.

What a lovelier outlook, I thought. As opposed to the resignation and acceptance that mere chance implies, hope contains a certain positive attitude that suggests, well, hope. Emily Dickenson captured it perfectly when she wrote that

"Hope is the thing with feathers -That perches in the soul -And sings the tune without words -And never stops - at all."

Nationally, there is a sense of hope afoot. As a candidate, President Obama sounded the two central themes of hope and change, and this message clearly resonated with a majority of Americans, if not If I can ever be of service, please do not hesitate to contact me at dradka@ctwater.com



the world. My wife and son were fortunate to travel to Washington for the inauguration, and when they arrived they phoned to say the city

was infused with energy, excitement and optimism. Hope, they said, was palpable. Heck, you could feel it 300 miles away in Connecticut.

We are, after all, a nation founded on hope. Our forbearers could not have undertaken such a perilous experiment unless hope was able to overcome the doubt and uncertainty that surely must have tried to hold them back. And for longer than we have been a country, peoples have immigrated to our shores hoping for a better life. They still do today.

There will undoubtedly be missteps and disappointments as the new administration and congress work to address healthcare, unemployment, an economic crisis and two wars; all the while trying to keep us safe, prosperous, and engaged in the world and in our communities. A sobering, tall order indeed, but thus far, the administration has shown itself to be relatively adept at balancing pragmatism and hope.

Much faith is being pinned on initiatives like the economic stimulus program. With roughly \$800 billion to be invested over two years, the stimulus package will reportedly include significant spending on infrastructure projects, "green" energy projects and energy efficiency, education and expanded social safety-net programs like unemployment benefits.

And as deserving as my project is, competition for federal dollars will no doubt be fierce. The American Water Works Association calculates that more than \$10 billion in drinking water infrastructure projects alone are shovel-ready and it is urging Congress to include funding for such critical projects in the stimulus legislation. This includes work on treatment plants, pump stations, storage tanks, and aging water main replacement. (Nationally, main replacement alone is projected to cost an estimated \$250 billion over the next two decades.) In addition to providing vital public health and safety benefits, AWWA estimates these projects would put more than 400,000 Americans to work.

Like many in our industry who see a need for increased funding for drinking water projects, I hope congress and the states ultimately decide it is important to invest in our nation's water system infrastructure. And in so doing, I hope the stimulus package is efficacious; that in addition to addressing the looming drinking water infrastructure crisis it helps puts people back to work and our economy on track.

I also hope the grant for my ceiling comes through soon. But even if it never materializes, I hope my son continues to go through life with a song in his soul. (I also hope my wife stays out of the attic, but believe my odds are better with the federal government.)

Sincerely, Dave Radka President, Connecticut Water Works Association



Aquarion Water Company, Tighe & Bond Win Engineering Excellence Award for New Mystic Dam

A new dam and chemical storage facility built by Aquarion Water Company of Bridgeport has won a prestigious award from the American Council of Engineering Companies (ACEC) of Connecticut.

Aquarion worked closely with engineers from Tighe & Bond of Westfield, Mass., on the project at Palmer Dam in Stonington, Conn., which Aquarion acquired in 2002. Representatives of both companies accepted the Engineering Excellence Grand Award at a recent ACEC dinner in Middletown.

The reservoir behind Palmer Dam holds 88 million gallons of water and serves as one of two supply sources for a population of more than 10,000. The site also houses the Dean's Mill Water Treatment Plant.

There were concerns about the former dam's capacity to hold up in flood conditions, so Aquarion began to plan the replacement project. At the same time, Tighe & Bond engineers were designing improvements to the treatment plant, and Aquarion elected to combine the two projects in order to minimize disruption to the area and to water service.

Improvements to the treatment plant included the addition of a new chemical storage facility to replace aging equipment and ensure adequate and safe storage. Another feature of the renovation was construction of a containment area to protect the environment in the event of an accidental release of chemicals from a truck during deliveries.

With the project's completion last summer, the dam's integrity is no longer in question, and environmental protection and safety have been improved. \Diamond



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Cover photo: The Southington Water Department's headquarters today. The origin of that organization is an interesting story and it is illustrated with some rare old photos on Page 10.

By Elizabeth Gara Connecticut Water Works Association

In the book of life, the answers aren't in the back. – Charlie Brown

Like Charlie Brown, a lot of us wish the answers to life's challenges were in the back of a book As the water industry faces one of its biggest challenges – climate change and its impact on water resources – it's clear there are no easy answers in any book In fact, scientists are still grappling with uncertainty regarding climate change and how it will impact us.

At the CWWA/CT Section Fall Meeting, Brian Robillard, Steve Rupar and Ted Norris of the South Central Connecticut Regional Water Authority shared their insights with us regarding how climate change will impact water resources in Connecticut and what we can do to prepare. Using graphs and charts depicting global trends in greenhouse gases, atmospheric conditions, temperatures and sea levels, Brian Robillard outlined what climate change is and the changes we can expect

What is Climate Change?

Climate change, which is used interchangeably with global warming, refers to changes in the average weather conditions for any given season(s) lasting an extended period of time, Robillard explained Many times during Earth's history, the climate has changed, with events ranging from ice ages to long periods of warmth. Volcanic eruptions, changes in the Earth's orbit, and the amount of energy released from the Sun have all affected the Earth's climate. Another natural and necessary process is the greenhouse effect, where "greenhouse" gases prevent heat from escaping to space, somewhat like the glass panels of a greenhouse.

As a result, the planet is warmer making the Earth hospitable for life Over the past 200 years, the burning of fossil fuels, such as coal and oil, and deforestation has increased concentrations of "greenhouse gases" in our atmosphere Some climate models predict that if greenhouse gases continue to increase, the average temperature at the Earth's surface could increase from 3.2 to 7.2°F above 1990 levels by the end of this century However, predicting climate changes are extremely difficult and science is just beginning to understand how the Earth's atmosphere, oceans, and continents affect the climate It is not clear what impact human activity has had on the climate or how it will change it, if at all, in the future.

What does this mean for water resources? According to a recent paper by the Intergovernmental Panel on Climate Change (IPCC), "Observational records and climate projects provide abundant evidence that freshwater resources are vulnerable and have the potential to be strongly impacted by climate change, with wide-ranging consequences for human societies and ecosystems."

Hydrological Cycle Will Intensify

Steve Rupar explained that climate change will intensify the hydrological cycle, which is expected to lead to more intense rainfall events (with increased flooding) separated by longer more frequent periods of drought. Changing patterns of precipitation, less snow melt and increased water loss due to evaporation as a result of warmer air temperatures may also occur.

Higher runoff resulting from heavier rainfalls and earlier snow melts will also result in more sediment in our water supplies, Rupar said. This may necessitate changes to treatment processes to combat increasing turbidities. Also affecting water quality, increases in intense rainfall will wash more nutrients, pathogens and toxins into water bodies. Together with warmer water temperatures, this may foster harmful algal blooms Rising sea levels may create saltwater intrusion into some coastal water supplies. Increased flooding may lead to sewer overflows into reservoir systems. These changes mean that we will see an increase in water quality problems.

"Connecticut will very likely experience longer drought periods, resulting in changes to the availability of water for public health and safety as well as agriculture and industry," Rupar said There will also be greater demands on community water supplies and the water needs of agriculture and industry during periods of warmer and drier weather Clearly, utilities are going to want to focus on water efficiency measures to help meet these increased demands, such as implementing leak detection and demand management programs and conservation rates.

"Climatic change will impact every aspect of water utility operations," Norris explained, "As an industry, we must understand that climate change will impact water quality, increase risks at dams, alter water supplies and demands, bring regulatory changes, and impact revenues."

What can we do to address climate change issues facing water utilities?

"Clean energy and climate change" have been identified as a top Agency priority, according to EPA Administrator Stephen Johnson. EPA national and regional offices are outlining strategies to address climate change, including its impacts on water resources. EPA supports the position of the Intergovernmental Panel on Climate Change (IPCC), which recommends a Portfolio Approach to planning for climatic changes: 1) Adaptation, referring to the ways in which our culture and infrastructure will have to change in order to successfully manage the climate extremes; 2) Mitigation, meaning reduction in the greenhouse gas emissions that accelerate global warming and climate change; and 3) Research and Development.

Climatic change will impact every aspect of water utility operations.

As part of this portfolio approach, utilities should conduct a threshold analysis to look at sources and systems to determine where changes in water quality, quantity and demands would present a major challenge, Norris said Based on current models and knowledge, utilities should begin to define key climatic impacts on thresholds and identify where climate changes would cause threshold tipping points to be exceeded.

In addition, utilities should perform vulnerability analyses, using climate change models to estimate changes and then analyze the consequences. As Norris

Also, look for unintended consequences, such as how improved conservation efforts impact revenue.

points out, "We already plan for changes in population, supplies, and regulations. We must now include planning for climatic changes."

Utilities should also focus on developing adaptation strategies – how to improve the system for flexibility and resiliency, such as combining service areas or multi-window intakes. Norris recommends adoption of a "step-wise approach" – do things that increase your utilities' flexibility and plan for both best and worst case scenarios Also, look for unintended consequences, such as how improved conservation efforts impact revenue.

Reducing climate vulnerability risks, such as exposure to increased runoff sediment loads by constructing large forebay reservoirs, is also an important part of a utilities' overall strategy Developing specific climate change risk management strategies is important. And, make sure to "monitor risks often because the rate of climate change appears to be accelerating – risks are coming at us faster," Norris said.

For water utilities, developing diverse tools to ensure safe, adequate public water supplies will be critical to meeting the challenges posed by climate change. If these challenges seem daunting, take another page from Charlie Brown and develop a new philosophy, "Dread only one day at a time."

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What is on the bottom of your storage tank?

By: Robert J. Longo, Superintendent – Bristol Water Department and Peter J. Grabowski, P.E., Vice President – Tighe & Bond



Sediment on the Bottom of a Tank

Do water samples from your water storage tank have low free chlorine residual or high turbidity measurements? If so, organic sediment may be accumulating on the bottom of your tank. Sediment accumulation occurs as a result of quiescent conditions within the storage tank. Water quality problems such as increased disinfectant demand, increased turbidity, microbial growth, and disinfection by-product formation may result from sediment accumulation.

The Bristol Water Department (BWD) owns, operates, and maintains ten water tanks, totaling more than 16,400,000 gallons of storage for the City. The BWD completed its last evaluation of its storage tanks approximately 10 years ago. Due to the age and condition of the tanks, the BWD and Tighe & Bond re-inspected the tanks in 2007 with the exception of two tanks, one that was placed online in October 2006 and another that was inspected in April 2006. The inspections were completed utilizing a remote operated vehicle (ROV) that is capable of measuring the sediment

depth on the floor of the storage tanks. During the inspections, some of the storage tanks had elevated turbidity measurements (as high as 3 NTU), and the BWD suspected that turbulence from influent water may be stirring up sediment in the tank, resulting in the elevated turbidity levels. Turbidity within the distribution system should be less than 1 NTU to minimize health and aesthetic concerns.

The sediment accumulation in the middle of the tanks ranged from less than 1 inch to over 10 inches with depths ranging from 1 inch to 30 inches along the interface between the tank sidewall and the floor. A summary of the sediment depth in each tank is presented on the next page.

Depending on the type of tank construction, the sediment primarily consisted of organic material, paint chips, and/or concrete spalls. Based on the depths of the sediment and the concerns associated with water quality problems (chemical and biological issues), the BWD advanced the design and subsequent

removal of the sediment from seven of the tanks. The Terryville Avenue Tank had minimal sediment accumulation, and the Old Wolcott Road Storage Tank is scheduled for rehabilitation in early 2009.



Remote Operated Vehicle

Extech LLC is performing the sediment removal, which started in August 2008 and is currently being completed. The sediment removal occurred while the tanks remained in service. The sediment removal equipment was disinfected in accordance with AWWA C652 standards. Extech removed the organic or "soft" sediment from the tanks using an ROV with a 2-inch or 3-inch vacuum hose. The sediment water slurry was discharged into a 20 cubic yard roll-off container with a filter liner. Extech discharged the supernatant from the roll-off container onto City property for irrigation/infiltration or into an appropriate drainage system. The sediment that settled in the roll-off container was tested and properly disposed of off-site. For the large debris (paint chips and concrete spalls) removal, a hogger type vacuum system was required.



Hose Discharge into 20 Cubic Yard Roll-off Container

			Large Debris	
Tank	Tank Diameter	Sediment Depth	Coating Flakes	Concrete Spalls
Chapel Street Standpipe (Welded Steel)	72'-0''	2 –3 inches in center; 6 – 10 inches along and extending 24 inches from the tank wall	Yes (lead based paint)	No
DeWitt Drive Distribution Reservoir (Prestressed Concrete)	64' – 0''	I – I.5 inches	No	Yes
Grove Street Water Storage Tank #1 (Bolted Steel)	31'-0''	2 – 8 inches along the tank bottom	Yes (lead based paint)	No
Grove Street Water Storage Tank #2 (Welded Steel)	78' – 0''	6 – 10 inches in center; 16 – 30 inches along and extending 24 inches from the tank wall	Yes (lead based paint)	No
Old Wolcott Road Water Storage Tank (Prestressed Concrete)	60' — 0''	 I – 1.5 inches in center; spall piles 6 – 8 inches deep along and extending 24 inches from the tank wall 	No	Yes
South Mountain Storage Tank (Welded Steel)	70' – 0''	Less than I inch	No	No
Sevens Street Standpipe (Welded Steel)	75' – 0''	6 – 10 inches in center; 12 – 24 inches along and extending 24 inches from the tank wall	Yes (lead based paint)	No
Hill Street Reservoir (Reinforced Concrete)	208' × 90'	Less than 1 inch	No	Yes
Terryville Avenue (Prestressed Concrete)	68'-6''	Non-detectable	No	No

continued on page 8



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What is on the bottom of your storage tank? (continued)

Sediment Removal Tank/Sediment Removal Activity Duration (Days) Cost for Service Chapel Street Standpipe 10 \$7,400 DeWitt Drive Distribution Reservoir 3 \$5,500 Grove Street Water Storage Tank #1 3 \$4,600 Grove Street Water Storage Tank #2 14 \$8,900 South Mountain Storage Tank 4 \$5,300 Sevens Street Standpipe 32 \$12,400 Hill Street Reservoir 16 \$15,800 Sediment Removal Subtotal 82 \$59,900 Large Debris Removal \$57,500 Lead Analysis for Steel Tank Coatings \$800 Off-Site Waste Disposal \$20,600 TOTAL \$138,800

The sediment removal costs and duration of cleaning for each tank is as follows:

To ensure that there were not any water quality disruptions, turbidity and free chlorine concentration were measured before and after each tank entrance. Turbidity was measured with a Lamotte handheld turbidimeter while free chlorine concentration was measured using a Scientific, Inc. micro check test kit. Based on the results, the quality of the water was not impacted by the sediment removal operation. The accumulated sediment in the roll-off container was also tested for hazardous substances, and some of the sediment samples tested positive due to the lead concentrations.

Some considerations during the sediment removal process are as follows:

• A power source or portable generator is necessary for the sediment removal equipment.

- The water level in the storage tanks should be maintained as high as possible to assist with the sediment vacuum process.
- If a tank has significant paint chips or concrete spalls, a 2-inch diameter suction hose will continuously plug; larger diameter hoses (3 inch) are necessary.
- For larger debris (paint chips and concrete spalls) removal, non-clog hogger type vacuum systems are required.
- If an ROV is used, the thruster seal fluid should be a food grade product.
- Divers can also be used for sediment removal services; however, the remote operated vehicle and hogger type vacuum system are more economical. The most cost effective method of removing sediment is to drain a tank; however, this method

is not always feasible based on interconnections and other available sources within the distribution system.

Water utilities need to be cognizant of infrastructure maintenance and inspections within their respective distribution systems. Sediment accumulation within storage tanks can negatively impact the quality of the water, and identifying and subsequently addressing the problem will provide customers with safe, potable water. The BWD was proactive in addressing its sediment accumulation issues and has scheduled the necessary followup inspections to monitor sediment accumulation within its storage tanks.

SENATOR MARY ANN HANDLEY AND REP. KEVIN DELGOBBO NAMED CWWA LEGISLATORS OF THE YEAR!

Senator Mary Ann Handley (D-Manchester) and Rep. Kevin DelGobbo (R-Naugatuck) received Legislator of the Year Awards from The Connecticut Water Works Association (CWWA) for their dedication to sound public policies affecting Connecticut's public water supplies and water quality.

"Sen. Handley's advocacy on behalf of legislation to protect public water supplies from contamination resulting from cross connections deserves our recognition Such laws are critical to ensuring that the quality of Connecticut's public water supplies remains among the best in the world," said Carlene Kulisch, representing the South Central Connecticut Regional Water Authority and CWWA Legislative Officer

"Sen. Handley has long demonstrated a deep commitment to issues affecting water quality and the availability of public water supplies to meet the state's public health and safety needs. Her ability to understand complex issues and work with stakeholders to move legislation forward was critical in winning passage of this legislation," added David Radka of Connecticut Water Company and President of CWWA. "Her efforts to preserve and protect water quality are an ongoing mission and one that the water industry sincerely appreciates."

Recognizing State Representative Kevin DelGobbo, Maureen Westbrook of the Connecticut Water Company and a CWWA Legislative Officer said, "Rep. DelGobbo played a leadership role in adopting legislation to enhance Connecticut's public water supply infrastructure He



was instrumental in the passage of legislation that will help water companies replace and upgrade their aging water infrastructure, which directly benefits consumers by protecting water quality and assuring continued reliability of service."

"His efforts will also help conserve water resources by minimizing future distribution system breaks and leaks," added Guy Russo, Director of Middletown Water & Sewer and a CWWA Legislative Officer. "In addition to infrastructure, Rep. DelGobbo has been a leader on a number of other water utility issues, acting as an advocate for customers and ratepayers while balancing the water companies' obligations to meet water quality standards and provide for the long term water supply needs of their customers," Russo continued.

The awards were presented to Sen. Handley and Rep. DelGobbo at CWWA's Annual Fall Meeting held in East Haven on October 23



The Origins of the Southington Water Department

Today, Southington, Connecticut is a successful community with a population of 40,776 and an established industrial base as well as a thriving retail sector.

But even 125 years ago, when many Connecticut towns were still farming communities, Southington was a busy industrial village with large three story wooden factories housing companies such as Peck, Stow & Wilcox, the Southington Cutlery Company and the Aetna Nut Company's rolling mill, among a number of others.

Drinking water in town came from dug wells but those wells didn't serve to quell the big fear of every factory owner: fire. Fires had leveled factories and mills across New England during those times and in 1881 a number of the leading citizens of Southington decided it was time to establish a reliable source of water for fire protection as well as for domestic use.

A charter was granted by the state legislature in 1882 and 600, one hundred dollar shares in the new company were authorized. Three hundred ten of these shares were purchased by four local companies and 140 were bought by 22 local individuals.

At a town meeting, it was voted to have the Town of Southington invest \$15,000 in the remaining shares, but enabling legislation was required from the state Such an act was passed in 1883 but it contained a provision that the town would have the right to acquire the entire water works within 20 years at a price equal to the entire sum expended on the water works, plus 6% interest, less any dividends that had been paid Some years later, that provision became a deal-breaker.

On March 28, 1883, a meeting of the newly elected directors of the Southington Water-Works was held and a board member and investor, Theodore H. McKenzie, shown in the records to be a "local engineer," was appointed to work with a consulting engineer from New York to investigate possible sources of water supply

In May of that year, the company's directors met again and Humiston Brook was selected as a water source from the four alternatives presented by McKenzie McKenzie was then authorized to prepare plans and specifications for construction of the reservoirs and distribution system A general contractor was hired in July, 1883 and under Theodore McKenzie's guidance, both a storage and a distribution reservoir were built and connected to the village of Southington by November 1, 1884 It is difficult to understand how a project of this size could be built in just about 18 months but it was, and parts of it still serve today.

The budget for the project was \$85,000 and in a detailed report to the Water-Works directors in November, 1884, it was noted that the project had been built – including the acquisition of land and water rights – for \$85,999.33.

T.H. McKenzie would continue his relationship with the Southington Water-Works well into the next century.

The Southington Water Department Today

Population: 42,053 Area: 36 square miles Water customers served: 12,300 Average daily demand: 3.9 million gallons

Drinking water infrastructure: 196 miles of pipe Three reservoirs and seven wells One filter plant Two pumping stations Six storage tanks with a total capacity of 6.5 million gallons

The Southington Water Department has a staff of 23.



Nick the blacksmith, in front of his blacksmith shop The use of horses for pulling heavy wagons meant that an on-site blacksmith was a necessary addition to the crew.



The directors of the Southington Water Company and some Southington town officials in 1904. The gentleman seated at left (with goatee) is T.H. McKenzie, the engineer who designed and built the company's first reservoir in 1883 and supervised the construction of the distribution system from the reservoir into the village He served as engineer until 1907. The Southington Water Company was purchased by the Town of Southington in 1911 after a 10 year legal battle that was finally decided by the Connecticut Supreme Court of Errors.











A Southington Water Department Project in 1922

- President Warren G. Harding looks on as the Teapot Dome scandal erupts in Congress
- An Army Air Corps pilot is the first to fly a plane coast to coast in one day
- Maytag introduces the "Gyrofoam," the first practical washing machine
- Dozen of radio stations around the country begin broadcasting for the first time
- The Ziegfeld Follies with Will Rogers is a big hit on Broadway

In 1922, the world was beginning to move much faster and at the Southington Water Department there was a pressing need for some additional water storage capacity After an engineering study, it was decided to raise the level of the department's Reservoir No. 2 by seven feet.

During the construction, a now unknown Water Department employee recorded the construction on film and later made his own notes on the margin of each snapshot These photos are preserved in an album titled simply, "Water Dep't Town of Southington."

The photos show how primitive construction of this type was just 87 years ago, at least by today's standards Horses and wagons were used rather than trucks and the horses required the services of a blacksmith shop. A concrete plant had to be built on site. And excavation was done with a real "steam shovel," noted to be a "5/8-yd Erie," complete with an operator and a fireman.





Southington Water Department (continued)

On February 3, 1886, McKenzie wrote a paper titled, "The Water-Works of Southington, Connecticut" in which he described in great detail the construction of the project in 1883 and 1884. The paper was published by the American Society of Civil Engineers in its "Transactions, 347 Volume XV – December 1886."

"The water is procured from Humiston's Brook, a mountain stream having a drainage area of two and one-half square miles, mostly uncultivated, rocky land, with very irregular surface The rock is granite The water is impounded by an earth dam about four miles from Southington Centre and 530 feet above its level Another distributing reservoir is built three-fourths of a mile nearer the town and 343 feet above it, from which a cast iron-pipe is laid to the town."

"In the construction of many of the water-works for small towns in the New England States, but little attention has been given to the grades of pipes, and in laying the pipe the undulations of the ground without relieving the accumulations of air at the summits, and consequently the flow of water in the pipes is impeded; but the works described above have been constructed with the idea in view that money judiciously expended in engineering, planning and superintending was a good investment, and the results confirm that theory."

The Town of Southington Acquires the Water Works

In 1901, the town, which owned 150 shares of the Water Works, decided to exercise its option under the provisions of the original 1883 enabling legislation, to acquire the Water Works entirely Once again, special legislation was enacted by the legislature that specified the creation of a Board of Water Commissioners, which would have all of the powers originally given to the directors of the water company in its charter. The purchase was ratified at a town meeting in April, 1901 but amazingly, the directors of the Southington Water Company refused to complete the sale Legal action was taken by the town the following year but it wasn't until 1911 that the Connecticut Supreme Court of Errors finally decided the matter in favor of the town.

On May 24, 1911, the town formally took possession of the water company. One of its first actions was to appoint Samuel H. Mackenzie as Superintendent and Engineer Mr. Mackenzie had taken over as Superintendent of the Southington Water Company from T.H. McKenzie in 1907 and would now continue in that position with the newly formed Southington Water Department The similarity of names of these two distinguished engineers seems to be simply a coincidence.

Purchasing the Southington Water Company would mean taking on debt and to finance the purchase, the town sold 4-1/2%, 30-year bonds Those bonds sold at a premium of almost \$3,600 and that, together with the \$37,710 in dividends that the water company had paid the town as a shareholder over the years, formed the working capital for the new water department.

Information about the Southington Water Department and the accompanying historical photographs were provided by Thomas R. West, P.E., the current Superintendent of the Southington Water Department.

Information concerning the history of the original Southington Water-Works was taken from the booklet, "The First One Hundred Years of the Southington Water Works," written by Samuel W. Bowers, long-time Secretary-Treasurer of the Southington Water Department.



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Larry Bingaman

An Interview with the South Central Regional Water Authority's new CEO

Larry Bingaman is certainly no stranger to Connecticut. He had a long and distinguished career at Aquarion Water Company in Bridgeport beginning in 1990, when he was hired as Vice President, Marketing & Communications. In 2000, he was appointed Senior Vice President of Corporate Relations and was made a Director of the company.

In March, 2004, he was appointed Senior Vice President of Operations for all of Aquarion's water subsidiaries in Massachusetts and New Hampshire.

When Bingaman received that new assignment, Charles V. Firlotte, Aquarion's CEO and President said, "During his tenure at Aquarion, Larry has established himself as a highly capable executive who has accomplished a broad range of initiatives to help establish and maintain Aquarion's role as a public water supply industry leader, responsible corporate citizen, and environmental steward."

One might also add that Larry Bingaman had been busy while at Aquarion. He served as President of the Connecticut Water Works Association in 2002-03, co-chaired the Water Planning Council Advisory Group, co-chaired the CWWA's Legislative Committee and just before decamping for Massachusetts and his new responsibilities, he received the George Warren Fuller award for distinguished service from CTAWWA.

In 2008, the South Central Regional Water Authority began the process of searching for a new CEO to replace David Silverstone who was retiring. After a nation wide search, the South Central Regional Water Authority offered the position to Bingaman.

Larry Bingaman began his new duties at the South Central Regional Water Authority on January I, 2009 and now, with less than 60 days on the job, he sounds as though he has been there for years. He has obviously put his many years of experience in the Connecticut drinking water industry to good use. In our interview, Larry began by describing new initiatives at the South Central Regional Water Authority. The first, he said, was a new customer information system using SAP as a platform. (SAP is an international provider of business software solutions.) He said that he expects that to help with the business mapping process, and the rethinking the way the South Central Regional Water Authority conducts business, particularly the use of technology to enhance the operating and capital efficiency of the organization as well as improve customer service.

"In the future we'll be much more technology-driven than we are now and as the need is identified, we'll implement SAP on a phased basis across the organization for our management information system," he said.

He noted that increasing RWA's operating and capital efficiencies can really help take some of the pressure off customers because of rate increases.

Finding talented people for the water industry

Bingaman noted that he was also aware that talented people were going to be difficult to find. "Going forward, we'll also need to look at finding competent people to succeed those who will leave our organization for retirement, he said.

"The South Central Regional Water Authority has always been very supportive of CTAWWA's effort to educate young people about the water industry as a career and we will continue to help in that effort in any way that we can," he said. "We've noticed the success of CTAWWA's Young Professionals committee as we have the Connecticut Department of Public Health's Job Fairs. We certainly need to show young people that careers in the water industry are not only rewarding but are a way to give back to the community," he noted.

The South Central Regional Water Authority's Infrastructure

When asked about the South Central Regional Water Authority's infrastructure, Bingaman said, "The Authority has a history of investing in our infrastructure at a rate that balances capital investment, customer service and increasing water rates. As a result, I think our infrastructure is in good condition and that we have been allocating our resources correctly. For instance, we have a program of cleaning and relining pipe and a practice to replace mains when we have three breaks per thousand linear feet. That's resulted in a good record when it comes to main breaks and fewer outages for customers."

"What we want to avoid," he continued, "is letting improvements and timely repairs ever get ahead of us. When that happens to any utility, it presents a set of obstacles that may be impossible to ever overcome."

Continued on page 14

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Larry Bingaman (continued)

Continuing the South Central Regional Water Authority's policies on conservation

In the area of conservation, Bingaman noted that the South Central Regional Water Authority has had a policy of wise water use in place for more than a decade. "We promote the efficient use of water and believe that it should be an every day practice for everyone to conserve a precious source."

"While we're not interested in telling our customers that they can't water their lawns," he said, "we do strongly encourage the wise use of water both outdoors and inside, as well as installing new appliances that help conserve water." He said that the South Central Regional Water Authority is behind any technologies or practices that help to relieve the pressure to develop new sources of water supply. "That," he said, "is a long and expensive process."

Regionalization

When asked about regionalization, Connecticut's current public policy buzzword, Bingaman said that he thought that the South Central Regional Water Authority was an example of successful regionalization, since it supplies water to 117,000 customers in 15 Connecticut towns. He also noted that the South Central Regional Water Authority's HazWaste program was another form of regionalization through which member towns' citizens could save by using the South Central Regional Water Authority as a regional site for the disposal of hazardous waste.

"Regionalization of public services is a great way to save money and should be considered as a potential way to maintain services in a time of rising costs," he noted. "It is something that many municipalities are going to have to consider as resources become scarce."

Bingaman noted that successful regionalization the way the South Central Regional Water Authority practices it needs to be continuously maintained. "We think it's important that we always maintain a good relationship with the towns within our service area," he said. He explained that the South Central Regional Water Authority has a Representative Policy Board on which

each town in the service area has a seat, plus one member appointed by the Governor. That board meets monthly and by statute has several responsibilities including rate setting authority as well as approval of capital projects over \$2 million.

"But," he added, "our Representative Policy Board is more than simply our rate-setting body. We also work them as representatives of their towns to keep them informed and to partner with them whenever possible. That's the key to the success of a regional organization such as ours."

He noted that there is also the five-member the South Central Regional Water Authority itself that is responsible for the oversight of the management of the utility.

"Shovel-Ready" Projects

Bingaman noted that the South Central Regional Water Authority has seven projects that are shovel-ready and could be financed with government stimulus funds. The cost of accomplishing them all would be approximately \$16 million and they would result in the employment of 200 people.

He emphasized that these projects weren't created to take advantage of a Federal windfall, but have all been planned as part of the South Central Regional Water Authority's water supply planning.

"Any utility and most municipalities have projects in the planning stages that for some reason - often simply the lack of funds - have to be delayed," he said. "We see these projects as investments and accomplishing them now can only make us stronger and better able to provide a consistent level of service to our customers in the future."

"It's good to be back in **Connecticut**"

Bingaman made it a point to say how much he enjoyed "coming home" to Connecticut. "We always enjoyed living here very much," he said, "and it is particularly great to be able to again work with people that we had developed such a good relationship with over the years."

He also reiterated his - and the South Central Regional Water Authority's - support for both CTAWWA and CWWA. "Our utility has taken an active role on the boards and committees of both organizations," he said, "and we will continue to do so." \Diamond



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CONNECTICUT SECTION AWWA AND CONNECTICUT WATER WORKS ASSOCIATION

38th ANNUAL JOINT CONFERENCE Wednesday, May 20, 2009 to Friday, May 22, 2009



JOIN US for the 2009 ANNUAL JOINT CONFERENCE as we return to an old favorite, Woodstock Inn and Resort.

This year's conference is full of interesting technical sessions and events that will benefit all attendees. Conference registration begins at 11:00 a.m. on Wednesday, May 20, 2009 followed by a buffet luncheon at 11:30 a.m. As in the past, we are grateful to have the Associates Committee sponsoring the luncheon and the keynote speaker / entertainer, Rob Peck, founder of Zestworks- a speaking, training and consulting firm which believes that "the best test is zest!" All who attend the luncheon will also receive a special arrival gift courtesy of the Associates Committee.

In this section of InFlow-Line, you will find:

• <u>Conference Agenda</u>: The Conference Agenda details the times and topics of technical sessions, receptions, dinners and special events.

• <u>Conference Registration</u>: The Conference Registration Form should be completed and returned with the appropriate registration fees by Wednesday, April 29, 2009. Golf and Bocci are available on Thursday afternoon. Please indicate on the registration form if you are interested in participating in either of these activities. Please note, the golf fee includes greens fees, cart, box lunch and prizes and is <u>not</u> refundable.

• <u>Hotel Registration</u>: The Hotel Registration Form must be completed and returned to Woodstock Inn, with the appropriate deposit, by Wednesday, April 29, 2009. Breakfast, dinner, taxes and fees are included in the room cost. The number of rooms available are limited and will be available on a first come, first serve basis. The form should be mailed or faxed directly to Woodstock Inn.

• <u>Sponsorship Opportunities</u>: Companies are offered the opportunity to sponsor different portions of the conference. From coffee hour to social hour, there are many options to choose from. Please see the attached sponsorship form for details. Completed forms are to be sent to the CTAWWA Treasurer by Wednesday, April 29, 2009 to meet publication deadlines.

CTAWWA accepts all major credit cards and you can register for the conference on-line. Please visit our website www.ctawwa.org for details.

We look forward to seeing you at the Woodstock Inn and Resort in May.

2009 Conference Committee

If you have any questions, please contact:. Kevin Barber CTAWWA - Treasurer (203) 866-4446 ext. 2031 kbarber@snew.org



CTAWWA / CWWA 38th Annual Joint Conference

CONFERENCE AGENDA

Wednesday, May 20

- 11:00 a.m. Registration
- 11:30 a.m. Luncheon Sponsored by the Associates Committee
- 1:00 p.m. Luncheon Speaker / Entertainer-Rob Peck, founder of Zestworks
- 2:30 p.m. Welcoming Remarks Tom Chaplik, CTAWWA Chair David Radka, CWWA President
- 2:40 p.m. National Update / Town Hall Meeeting Michael J. Leonard, President, AWWA Chris Bogucki, CTAWWA National Director
- 3:45 p.m. CWWA Regulatory Update Betsy Gara, CWWA Executive Director CWWA Legislative Tri-Chairs: Carlene Kulisch, Maureen Westbrook and Guy Russo
- 4:45 p.m. Report Card On Ethics in Connecticut Jay Sheehan, PE, Woodard & Curran
- 5:30 p.m. Adjourn
- 6:30 p.m. Reception and Awards Banquet

Thursday, May 21

- 7:30 a.m. Breakfast Meeting CWWA Board
- 8:00 a.m. Breakfast Meeting CTAWWA Board
- 9:00 a.m. "Driving the Green" LEED Certification for a New Water Treatment Facility Richard N. Davee, Wright-Pierce







Thursday, May 21 (Continued)

- 9:45 a.m. Selection, Implementation and Developments of an Asset Management System James J. Flynn, South Central Connecticut Regional Water Authority
- 10:45 a.m. "Measures of Management Excellence: Becoming an Award-Winning Water Utility" Seth Garrison, CDM
- 11:20 a.m. Adjourn

Afternoon Sports Events - Golf and Bocci

7:00 p.m. Reception and Clambake

Friday, May 22

- 8:00 a.m. Breakfast Meeting CTAWWA / CWWA Boards
- 9:00 a.m. Long Trail Brewery "Pro Mag" Treatment Process Bill Yawney, Long Trail Brewery
- 10:00 a.m. Pharmaceuticals Return Program-One Utility's Perspective Thomas R. West, P.E., Southington Water Department
- 10:45 a.m. Break
- 11:00 a.m. Water for People Activity Update Alexander Cosentino, Milone and MacBroom Steve Melanson, Connecticut Water Company Water for People Committee
- 11:15 a.m. WFP SMARTS Game Len DeJong, AWWA WFP Director
- Noon Closing Comments and Adjournment John Herlihy, CTAWWA Chair Thomas R. West, CWWA President

(Program subject to change)







FEATURED SPEAKER Michael J. Leonard President American Water Works Association



Since joining AWWA in 1974, Mike has served as section chair and vice-chair, trustee, and director of the Georgia Section. Additionally, he was program chair of the Georgia-South Carolina Joint Technology Conference and chair of the section Membership, Scholarship, Financial Audit, and Plant of the Year Awards Committees. He held offices on the section Water For People and Legislative Committees, as well as on the AWWA Young Professionals Committee. In addition, Mike has represented the Georgia Section on the AWWA Board of Directors, as well as serving on the Executive Committee as a two-term Vice-President.

Mike received the Georgia Section William J. Green Award in 2003, GW&PCA Hugh A. Wychoff Award in 2002, Fuller Award in 2001, US Environmental Protection Agency Bronze Medals in 1997, 1987, and 1985, and USEPA Special Achievement Awards in 1982, 1984-85, and 1987-89. Mike is also a Life Member of AWWA and a Life Member of the Georgia Association of Water Professionals.

Mike is currently the Water Operations Manager for the City of Roswell, Georgia. His past career experience includes General Manager for the Atlanta - Fulton County Water Resources Commission, National Expert for USEPA Region 4 and technical consultant for a major engineering consulting firm. Mike has also provided hands-on technical expertise in water treatment trouble-shooting, both nationally and internationally. He holds bachelor's degrees in chemistry and industrial management and has maintained his Class I Water Treatment Operators License since 1975.

Mike and his wife, Betsy, live in Alpharetta, Georgia.

WEDNESDAY'S LUNCHEON SPEAKER / ENTERTAINER Rob Peck

Founder and Creative Educational Advocate - Zestworks

The Associates Committee is delighted to bring you Rob Peck as this year's luncheon speaker. Rob is the founder and C.E.A. (Creative Education Advocate) of Zestworks- a speaking, training and consulting firm whose principal focus is the 3 T's: Teamwork, Tolerance and Tenacity and believes that "the best test is zest!" Rob is an author, humorist and "recovering perfectionist."

A keen observer of adult learning styles- and a recovering perfectionist himself, Rob delights in helping reluctant risk takers realize that when fallibility strikes- fortune sparks! His hands-on (outside the briefcase) slow motion juggling seminar inspires people to reduce stress and raise productivity by focusing on the 3 T's. His provocative keynote on putting Multiple Intelligences Theory into practice in the workplace examines the connection between courage and creativity, clarity and community.

An award winning entertainer and speaker, Rob was commissioned by the Smithsonian Institute to research and write a program highlighting multicultural solstice celebrations. He has appeared on cable and network television programs such as CNBC, Evening Magazine, Amazing America, and was a featured guest on Donahue. Rob is also the producer of "Stories I Could Never Tell"- The Collected Wit 'N Wisdom of Alan Weiss, author- Million Dollar Consulting and Money Talks.

After graduating the University Of Pennsylvania (Phi Beta Kappa) and doing post-graduate studies at Harvard and The Sorbonne University in Paris, France, Rob went on to do advanced training at the Antic Arts Academy (a.k.a. Our Lady Of The Last Laugh) in Canton, Me.

Rob currently resides in Northfield, Massachusetts.



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From the CTAWWA Chair

In previous columns, I have acknowledged many of the special things that our Section has been working on or has completed. Today, I am simply highlighting the basic activities and actions that are important to all of us (and which I may have previously taken for granted).

The success of *InFlow-Line*, the industry magazine for both the CT Water Works Association and the CT Section AWWA hinges upon the participation by everyone affiliated with both associations. Please make note of the following calendar dates so that you do not overlook the opportunity to publish an article of interest or market the services of your organization:

Summer Issue = June 15, 2009 Fall Issue = September 1, 2009 Winter Issue = November 1, 2009 Spring Issue = January 25, 2010

The effort necessary for the Section to operate professionally is a result of the human resource commitment from many individuals and the organizations that employ each of us. As a result of that commitment, we have more than twenty-five standing and ad hoc Section committees with approximately 160 people participating in these groups. The reason why this commitment of effort occurs is, I believe, in part attributed to the symbiotic relationship between the Section and the participating individuals and their employers. As the Section carries forward with its activities, it offers an opportunity for individuals to develop and practice leadership skills and establish networking relationships that are so important in this 21st century. As a result of the participation, the individuals advance professionally while the employers of those individuals are able to reap the benefits of a more sophisticated workforce. The relationship has certainly withstood the test of time and has done so quite successfully.

So if you as an individual or leader of an organization are seeking ways to constructively support the Section while taking advantage of this professional development opportunity, I invite you to join us. If you are apprehensive about making a commitment, you can easily attend one of the committee or board



meetings as a guest to learn about this opportunity. Visit our website at CTAWWA.org to obtain the contact information for the committee that might best match your interest. And for all of you involved currently, I thank you and your organizations for this ongoing relationship

Finally, I offer some words that were shared by Terry Rolan from Durham, North Carolina who was a guest at a Regional Section Officer's Meeting that we hosted several years ago. When Terry introduced himself to the audience, he stated that these words characterized him and his actions as he completed multiple decades of public service. I believe Terry's words, "Passion, Political Astuteness, Focus and Dedication", also exemplify us as we carry out our job responsibilities. However, more recently during these difficult times, I was told by someone that we will be looking at issues in ways many of us have never experienced. As a result I urge all of us to renew our commitment to the use of Terry's words and, as we continue forward, practice tolerance and respect for all

Please feel free to contact me at tchaplik@rwater.com or 203-562-4020 and if you have a question about the CT Section AWWA, contact our Executive Manager, Pam Monahan, at ctawwa@snet.net or 203-757-1855.

Sincerely, Tom Chaplik South Central CT Regional Water Authority

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Election of Section Officers

Submitted by Kathy Fortin, CTAWWA Secretary

Listed below is the proposed 2009-2010 slate of Officers for the Connecticut Section AWWA:

Chair Vice Chair Past Chair (a) Secretary Treasurer 2nd Year Trustee (b) Ist Year Trustee National Director (c) One Year Term Two Year Term Three Year Term John Herlihy Bill Kennedy Tom Chaplik Kathy Fortin Kevin Barber Jack Keefe Ray Baral Chris Bogucki

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

Article VII and VIII of the Section's By-laws govern the election and nominations process and 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, 2009, I will cast a ballot for the above slate and issue a notice to the membership via the next available issue of InFlow-Line magazine.

Other Board Positions for 2009-2010

Trustee at Large Trustee at Large Administrative & Policy Council Chair Associates Council Chair Education & Public Affairs Council Chair Technical & Standards Council Chair Water Utility Council Chair Don lannicelli Fred Rogers Rob Olejarczyk Leonard Assard Steve Melanson Cindy Gaudino John Herlihy

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



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CWWA Contact Information Betsy Gara, Executive Director 25 Capitol Avenue Hartford CT 06106 (860) 547-0566 gara@gmlobbying.com

CWWA Calls for Increased Operational Efficiencies

State lawmakers kicked off the 2009 legislation session by passing a deficit mitigation budget that trims the current deficit by \$124 million Unfortunately, new revenue estimates indicate that Connecticut is still facing a \$922 million deficit for Fiscal Year 2009 and must grapple with a structural budget deficit as high as \$8 billion over the next two years.

"We must rise to this challenge," Governor M. Jodi Rell recently said. "Doing so, however, will require crafting a new understanding of what is essential in state government. It will require an understanding that state government cannot be all things to all people

Connecticut's Water/Wastewater

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and cannot afford to do everything we might like. It will require an understanding that state government must be limited, especially in times such as these, by what the people who pay its bills can afford."

Recognizing the state's dire fiscal straits, CWWA has focused its 2009 Government Affairs Agenda on initiatives that will improve operational efficiencies within state agencies as well as water utilities to save much needed time and money As state agencies struggle to do more with less, CWWA has identified several legislative proposals aimed at improving the efficiency of various agency functions.

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Water Supply Planning Process

CWWA is spearheading a proposal to improve the efficiency of the Water Supply Planning process by: 1) Extending the timeframe for submittal from five years to ten years; 2) Using the process to better guide infrastructure asset management; and 3) Developing a more consistent format for providing the information to the state Department of Public Health Due to a lack of staff and cumbersome review processes, water supply plans often take years to review and approve, costing agencies and utilities much-needed resources.

CWWA has been meeting with DPH to develop a better, more consistent format for the plans, which will make it easier for staff to review and approve plans more quickly In addition, extending the timeframe for plan submittal will result in significant savings to the agency, which will be able to devote less staff time to cumbersome plan reviews It will also save utilities money because developing a new plan can cost from \$6,000 to \$60,000. Under the proposal, utilities would be required to file water system available supply and historical demand data biennially with the Department.

Licensed Water Professional Program

Another proposal that CWWA is developing is the creation of a Licensed Water Professional (LWP) program, similar to the Licensed Environmental Professional program, which has been successful in facilitating the review and approval of plans related to brownfields

Increased Operational Efficiencies (continued)

remediation and reducing the burden on state agencies to perform such reviews At this stage, we are looking at using the LWP program to facilitate the review and approval of Certificates of Public Convenience and Necessity filed with DPH.

School Construction Reimbursement of Water/Sewer Extensions

In addition, CWWA is requesting support for legislation to ensure that off-site extensions of water and sewer systems are eligible for reimbursement under the school construction grant program Under current law, even where it is more cost-effective and feasible to extend a water or sewer system from off-site to the school property, it is not eligible for reimbursement, forcing towns to bear the cost of operating wells and alternative sewage systems.

Streamflow Regulations

CWWA will also continue to work with the state Department of Environmental Protection to ensure that streamflow regulations do not jeopardize a water company's safe yield and margin of safety In addition, we will work to ensure that streamflow regulations do not impose costly burdens on water utilities, such as requiring significant infrastructure improvements to accommodate releases, which will place an untenable burden on towns and customers during these trying financial times.

Economic Stimulus Act Funds

CWWA has urged Governor M. Jodi Rell to help support efforts to target federal Stimulus Act funds to critical infrastructure projects in Connecticut, including drinking water quality, pipeline replacement and wastewater Pointing out that many critical projects encounter long delays in obtaining required regulatory permits, in large part because of inefficient administrative processes and overburdened staff, CWWA urged support for efforts to streamline certain permit approval processes.

If you are interested in helping to shape public policies affecting the water industry, CWWA is always looking to involve new members on its Legislative Committee, which meets once a month to discuss pending laws and regulations For a complete copy of our 2009 Government Affairs Agenda, please visit www.cwwa.org.



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Goodwin-Niering Center for Conservation Biology and Environmental Studies Connecticut College

Announces the 2009 Elizabeth Babbott Conant Interdisciplinary Conference on the Environment

Water Scarcity and Conflict

Usable freshwater is a relatively scarce commodity on the Earth. Competition for water for human consumption, irrigation, industrial use and power generation has resulted in conflicts at both the local and international scale. Population growth, overuse of existing groundwater supplies and potential changes in local hydrology resulting from global climate change could stress existing water delivery systems and amplify political tension among users. The Conference on Water Scarcity and Conflict will examine the root causes of conflicts over water use. We will assess weaknesses in the current physical and political infrastructure, and suggest ways in which water can be used in a more sustainable manner.

Consumption of high quality water is a major concern for much of the world's population. In the U.S., an increase in the consumption of bottled water occurred largely because of concerns about possible contamination of local drinking water supplies. Meanwhile, within the state of Connecticut, overuse of water from some watersheds with subsequent detrimental impacts on aquatic habitats led to efforts to better manage water withdrawals. Nationally, depletion of large groundwater aquifers in the Great Plains and Southwest is raising concerns about the future of agriculture and urban areas in those regions. Internationally, large trans-basin diversion projects and competition over scarce water resources create growing tensions among countries. These examples show that at all scales, water is a resource that is increasingly central to disagreements and conflict.

This conference will provide a broad overview of our current understanding of the use of this shared and critical resource. We hope to propose solutions that would enhance the sustainable use of water and reduce political strife among water users. The mix of speakers and topics should appeal to a wide audience of college students and faculty, concerned citizens, NGO representatives and policymakers.

KEYNOTE SPEAKERS

Peter Gleick from the Pacific Institute is a winner of the MacArthur Fellowship 'Genius Award', a member of the National Academy of Science and a fellow of the American Association for the Advancement of Science. He is one of the leading experts on the sustainable use of water.

Amy Vickers an engineer from Amy Vickers & Associates is the author of the Benjamin Franklin award winning book 'Water Use and Conservation.' She is an authority on water conservation and wrote the efficiency standards for plumbing fixtures in the U.S. Energy Policy Act of 1992.

Friday April 3

Evans Hall, Cummings Arts Center 12:00 Registration 12:30 Welcome and Introductions

Mellon Keynote Address I

Water: New Thinking for the 21st Century Peter Gleick - Co-founder and President of the Pacific Institute, Oakland, California

1:30 – Session I: Definition of the Problem

Lambert Lecture I

Water Follows the People: The State of the Platte River Ecosystem after 150 Years of Flow Regulation Ellen Wohl – Professor, Department of Geosciences, Colorado State University

Marjorie Dilley Lecture I

Water Conflicts in the Arid West: The Quest for Certainty and Control Reed Benson, Professor of Law – University of New Mexico

Break

Development of Water Use Management Alternatives for the Fenton River near Storrs, CT Glenn Warner – Professor, Natural Resources and the Environment Department, University of Connecticut

Interlinking of Indian Rivers – Pros and Cons and Environmental Concerns Kaggere Lokesh – Professor, Department of Environmental Engineering, S.J. College of Engineering, University of Mysore, India

5:00 Adjourn

7:30 **Mellon Keynote Address II** Water Use and Abuse: Innovations in Conservation Amy Vickers – President, Amy Vickers and Associates, Inc. Amherst, MA

Ernst Common Room, Blaustein Humanities Center Free and open to the public

Saturday, April 4

Evans Hall, Cummings Arts Center 8:00 Registration and Continental Breakfast

9:00 Session II: Responses to Scarcity: Science, Activism and Policy

Connecticut's Streamflow Standard: Balancing Human and Ecological Needs for Water.

Lee Dunbar - Assistant Director, Bureau of Water Protection and Land Reuse, Connecticut Department of Environmental Protection

Lambert Lecture II

Balancing Human and Environmental Water Needs with Increasingly Scarce Water Resources Mark Smith – Director, Eastern U.S. Freshwater Program, The Nature Conservancy, Boston, MA

Break

Marjorie Dilley Lecture II

Foreign Policy and International Water Development

Aaron Salzberg - Special Coordinator, Water Resources, Bureau of Oceans, Environment and Science Affairs, U.S. Department of State, Washington, DC

Interstate Water Sharing Agreements: What Have We Learned?

Lynne Lewis – Associate Professor of Economics, Bates College, Lewiston, ME

12:00 Lunch Hood Dining Hall, Blaustein Humanities Center

Student Research Poster Session

1:30 Session III: Prospects for Conflict, Resolution and Cooperation

Challenges of Supplying Water under Existing Federal and State Legislation

John Herlihy - Director, Water Quality and Environmental Management, Aquarion Water Company, Monroe, CT

Conflict and Cooperation along International Rivers: Scarcity, Bargaining Strategies, and Strategic Interaction

Shlomi Dinar - Assistant Professor, Department of Politics and International Relations, Florida International University, Miami

Break

Correlating Rainfall and Conflict

Marc Levy – Deputy Director, Center for International Earth Science Information Network, Columbia University, New York, NY (invited)

Think Outside the Bottle

Deborah Lapidus, National Organizer, Corporate Accountability International, Boston, MA

5:00 Adjourn

A conference at Connecticut College sponsored by The Goodwin-Niering Center for Conservation Biology and Environmental Studies; co-sponsored by the Andrew Mellon Foundation, the Elizabeth Babbott Conant Symposium Fund, the Marjorie Dilley Lecture Fund, the Jean Thomas Lambert Environmental Lecture Fund, the Beaver Brook Foundation, and the Connecticut Chapter of The Nature Conservancy.

Registration Form

Please indicate the number of people attending:

- _____ Conference: \$60 per person, includes refreshments, breakfast and lunch on Saturday
- _____ Students: \$25 per person, includes refreshments, breakfast and lunch on Saturday
 - _____ Friday evening Keynote Address (free and open to the public)

Total enclosed ______. Please make checks payable to Connecticut College and send to the Goodwin-Niering Center, Box 5293, 270 Mohegan Ave., New London, CT 06320-4196

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Accommodations

For hotel accommodations call the Spring Hill Suites by Marriot of Waterford at (888) 287-9400 or (860) 439-0151. Mention the Connecticut College Water Conference for a reduced rate. All guests must call the hotel and make reservations by March 2, 2009 to receive the conference rate. Call Mystic Country Connecticut at 1-800-863-6569 for information about events and other accommodations in the area.

Parking: Connecticut College South Parking Lot

For more information about the conference:

(860) 439–5417 email: goodwin-nieringcenter@conncoll.edu website: http://goodwin-nieringcenter.conncoll.edu

CTAWWA & CWWA Annual Holiday Board Meeting and Luncheon

On December 12, CTAWWA and CWWA held a holiday joint meeting at the Crowne Plaza in Cromwell The day began with a joint board meeting, which was followed by a holiday luncheon As always, a wonderful time was had by all.

This year, the attendees noted the retirement of Al Dion from Groton Utilities after more than 43 years of service. Al was a wonderful leader and resource to CTAWWA and will be sorely missed.

Early in January, CTAWWA gave Al a special recognition award, which is shown below,

In what has become a holiday ritual, the men gathered for the annual photograph of their holiday ties. Red ties weren't as predominant as in some past years, but each one spoke to the wild, artistic side that hides inside so many Connecticut water industry professionals. \diamond

Connecticut Section AWWA Recognition Award

Presented to:

Alfred Dion

CTAWWA Chair 1994-1995 Fuller Awardee 2001

In recognition of your outstanding service throughout your 43.5 years of employment at Groton Utilities We are indebted to you for all that you have done over the years as a member of CTAWWA

Presented on January 6, 2009





As always, the day started with a joint board meeting of both associations.



Al Dion (left) with CWWA President, Dave Radka



The December, 2008 display of holiday ties.



Anthony O'Neill of the Avon Water Company was recognized with an honorary membership in CWWA.

An Invitation to Join CtWARN!

On behalf of your utility, please consider this invitation to join the CT Water & Wastewater Agency Response Network (CtWARN).

As utility managers, our job responsibility requires us to provide high quality and reliable public water and wastewater services which are vital to our communities within the state. The mission of the CtWARN is to support and promote statewide, regional and local emergency preparedness, disaster response, and mutual aid and assistance for public and private water and wastewater utilities.

CtWARN has been in existence since January 2008 and currently has fourteen member utilities. They are:

- 1. Aquarion Water Company of Connecticut
- 2. Candlewood Shores Water District
- 3. Colchester Sewer and Water Commission
- 4. Connecticut Correctional Institute
- 5. Connecticut Water Company
- 6. Greater New Haven Water Pollution Control Authority
- 7. Montville Correctional Complex
- 8. Norwich Public Utilities
- 9. Portland Water Department
- 10. Simsbury Water Pollution Control Facility
- 11. Southington Water Department
- 12. South Central CT Regional Water Authority
- 13. Wallingford Department of Public Utilities
- 14. Windham Water Pollution Control Facility



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The two primary tools for use by the member utilities are (1) the Mutual Aid and Assistance Agreement which addresses the administrative issues required of the membership prior to the occurrence of an incident and (2) the Internet web site (CtWARN.org) which provides the resource information database that the member will be able to use to match its emergency need for equipment or experienced personnel with the resources available from other members.

As part of the ongoing effort to strengthen CtWARN, the member utilities will be participating in a tabletop exercise to be scheduled soon in 2009. The exercise involves a hypothetical earthquake that affects geographically contiguous utility members. Other activities are also being planned by the CtWARN Steering Committee and this effort is consistent with the nationwide coordination of mutual aid and assistance where there are now thirty-six state WARNs having EPA's official recognition

If you need a presentation about CtWARN for your governing board or general manager, please contact Pam Monahan (ctawwa@snet.net or 203-757-1855), Rachel Nowek (Rachel.Nowek@ct.gov or 860-509-7333), or Tom Chaplik (tchaplik@rwater.com or 203-562-4020). You can also visit CtWARN.org on the internet to quickly obtain a better understanding of how your utility can benefit from this free and voluntary network advocated by our regulatory agencies, which helps us serve our communities. \Diamond

Sincerely, The CtWARN Steering Committee

Tighe & Bond Recognizes Two From Connecticut



Late in 2008, Tighe & Bond Inc. announced the promotion of five employees to Associate Among them was Middletown, CT resident Jim Olsen Jim has more than 19 years of experience in environmental assessment, remediation, redevelopment, brownfields, and water supply projects for municipal and industrial clients and developers. Jim earned his undergraduate degree in geology from the University of Connecticut and his master's in environmental engineering from the University of New Haven. He is based at Tighe & Bond's Middletown office.



In February, 2009, Tighe & Bond, Inc. announced that Daniel S. Holmes had become a Leadership in Energy and Environmental Design (LEED) Accredited Professional. Dan, who resides in Suffield, is a graduate engineer with a design background in civil/ site and transportation engineering and works in the Tighe & Bonds's Middletown office. He received his bachelor of science degree in engineering technology from Central Connecticut State University.

Rose Jones Recognized by CTAWWA's Water For People Committee

Rose Jones, who has served as a member of the CTAWWA Water For People Committee for the last 15 years, was recently awarded the Water For People Appreciation Award Rose has been the Water For People Committee's Treasurer for 10 of those years and was singled out for her "invaluable help in keeping the committee's finances in order."



Alex Cosentino, CTAWWA's Water For People Committee Chair is shown presenting the WFP Appreciation Award to Ms. Jones.

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For information, contact:

Pamela Monahan, CTAWWA Executive Manager Membership Committee Co-chair (203) 757-1855 ctawwa@snet.net

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