



**Pennsylvania AWWA**  
American Water Works Association

# THE WATER NEWS SOURCE

Volume 55, No. 1 • Spring 2019

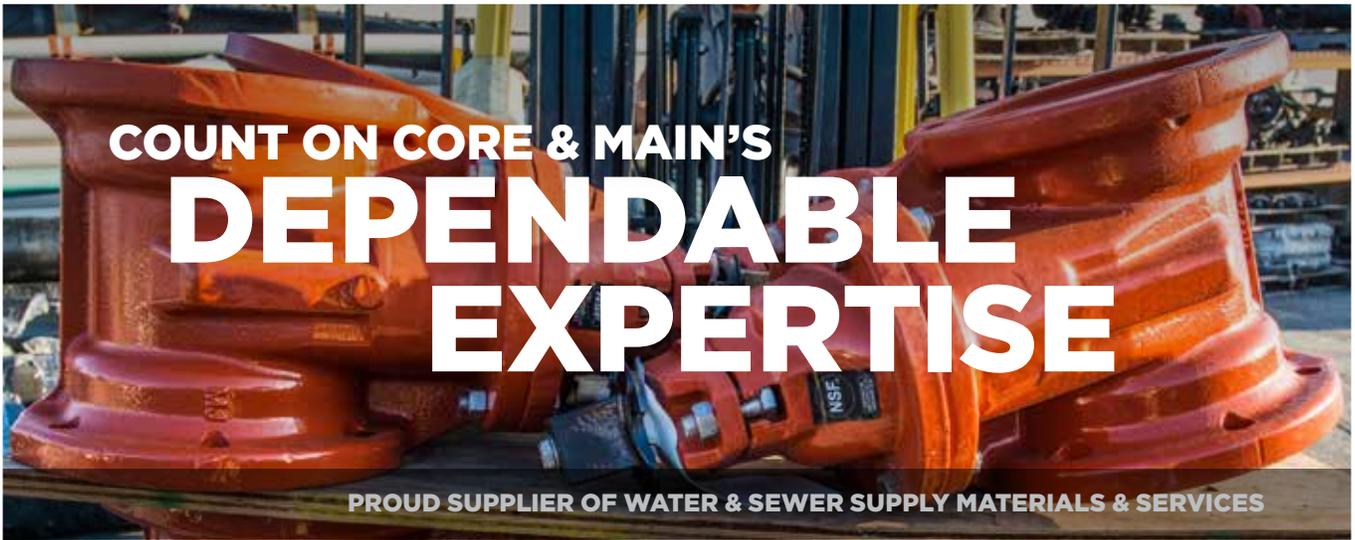
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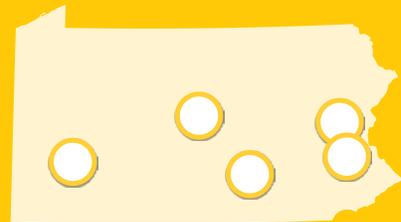
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**The Water News Source • Vol. 55 No. 1 • Spring 2019**

The Water News Source is published quarterly by the Pennsylvania Section of the American Water Works Association. The purpose is to inform members, local and state officials, and elected representatives about water supply issues in Pennsylvania.

The ideas, opinions, concepts, procedures, etc., expressed in this publication are those of individual authors and not necessarily those of the PA-AWWA Section, its officers, general membership, or the editor. The Section maintains the right to edit all articles for clarity and space. Individuals or organizations are encouraged to submit suggestions, ideas, articles, and items for the calendar of events. Please submit as a Word file and email to [mikesnyder@paawwa.org](mailto:mikesnyder@paawwa.org).

**Deadline to submit articles for the next newsletter is May 31, 2019.**

## Don't miss our upcoming conference packed full of great sessions & events!



**Peter Lusardi**  
Chair

On behalf of PA-AWWA, I invite you to the 71st Annual Conference. Our Conference Committee, led by chair-elect Chris Evans and Tim Trout, has done an outstanding job in bringing all aspects of this conference together. A special thanks to all the members of the PA Section office – Don Hershey, Patty Chila, Nancy Dinger and Mike Snyder who also spend a tremendous amount of time and effort coordinating this conference.

The excitement begins with the golf outing located at the nearby Deer Valley Golf Course. On Tuesday evening, there is a Meet and Greet Social Gathering from 6:00 - 8:00 p.m. that will provide a warm and relaxing atmosphere for all.

We have once again partnered with the Design Build Institute of America (DBIA) to enhance the options available for speakers and topics. On Wednesday morning, DBIA is sponsoring a tour of the Suez's Hummelstown, PA membrane filtration plant. On Wednesday evening, DBIA is sponsoring a Networking Event at Your Place Restaurant near the Hershey Lodge. Wristbands are required to attend this event and may be obtained at the Stone Hill Contracting or DBIA booths located in the exhibit hall. They will also be sponsoring other speakers on Wednesday afternoon and all day Thursday. Please check the enclosed schedule for information as to times and locations.

The core of the conference will get underway on Wednesday with the Opening General Session featuring the Keynote Address from Vai Sikahema, who played football for the St. Louis Cardinals and Philadelphia Eagles and is currently the morning news anchor for NBC10 News Today. We will be also privileged to hear from Dr. Joe Jacangelo, AWWA International Council Chair, followed by presentations from Michael Klein and Erik Ross on legal and legislative updates. The presentation of the Samuel Baxter Award and George Warren Fuller Award will be made at this time. Following the Opening General Session will be the Annual Business Lunch and Awards Presentation. Many additional prestigious awards will be presented at the Business Lunch.

A full day of operator's training will be available on Wednesday as well as The Exhibit Hall opening at 1:00 p.m. Activities held in the Exhibit Hall include the Annual YP Tank Building Contest, Hydrant Hysteria, YP Fresh Ideas Poster Contest and of course the Section's Water Taste Test. While the events in the Exhibit Hall are going on, the Technical Sessions begin at 1:30 p.m. with a Management Track and a Water Quality/Treatment Track. Check the schedule for details.

Participate in the annual Monopoly game by visiting our exhibitors, learning about their products and services, and possibly winning one of the many prizes. I can't stress enough how important our exhibitors are to the success of the conference so please take some time to visit with them. *Water for People* will once

again be holding a silent auction with proceeds used for water projects around the world. Also, please stop by the *Partnership for Safe Water Mixer* and the Committee Open House. There will be food and beverages available at the Mixer, during the breaks and at the Wednesday evening networking event in the Exhibit Hall along with a great line up of competitions.

Thursday is filled with many education opportunities with a Distribution Track, Management Track and a Water Quality/Treatments Track along with DBIA Sessions. The topics are varied so check the conference schedule for times and locations.

**An exciting addition to this year's conference is the Job Fair. If you are looking for an exciting job in the water industry, PA AWWA will be promoting companies and water utilities attending the conference who are looking to fill job positions.** These companies will be listed in the Conference Program and at the Conference Registration Desk and will welcome prospective candidates looking for employment.

The conference committee has done an excellent job of maximizing educational opportunities for the attendees and providing a forum where our exhibitors can meet with water industry professionals while also providing an opportunity to connect with industry peers. Please take a minute before you leave the conference to complete the Conference Evaluation Form and possibly win a great prize. This provides the committee with the information necessary to improve future conferences.

Thank you for taking time out of your busy schedule and limited training budgets to attend this conference. We hope you enjoy the new venue and opportunities available to you. I look forward to seeing you over the next couple of days.



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Look for the PA-AWWA's Young Professionals Page on Facebook, too!



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# 'Restore Pennsylvania': Governor Wolf outlines plan to restore critical Pennsylvania infrastructure

*Massive rebuilding plan funded by a severance tax will prevent flooding, eliminate blight, expand broadband to all Pennsylvanians*

Governor Wolf's vision for Pennsylvania includes vibrant towns and cities with new development, opportunities in rural and disadvantaged areas, and a modern, interconnected commonwealth. To achieve these goals, Governor Wolf is announcing a major new infrastructure initiative, Restore Pennsylvania, funded by the monetization of a commonsense severance tax. Restore Pennsylvania will invest \$4.5 billion over the next four-years in significant, high-impact projects throughout the commonwealth to help catapult Pennsylvania ahead of every state in the country in terms of technology, development, and infrastructure.

Encompassing new and expanded programs to address five priority infrastructure areas outlined below, Restore Pennsylvania projects will be driven by local input about local needs. Projects identified by local stakeholders will be evaluated through a competitive process to ensure that high priority, high impact projects are funded and needs across Pennsylvania are met.

## High speed internet access

Restore Pennsylvania will provide funding to bridge the digital divide in every community in Pennsylvania, making Pennsylvania a better place to work, do business, and live. Grants will be available to support installation of infrastructure to bring high speed internet to every corner of the commonwealth. Funding will support every phase of the process.

## Storm preparedness and disaster recovery

### Critical flood control infrastructure

Restore Pennsylvania will provide funding for flood prevention that will protect against severe weather and save homes and businesses in flood prone areas across the state. Restore Pennsylvania will provide funding to help towns and cities prepare for flooding and severe weather, upgrade flood walls and levees, replace high-hazard dams, and conduct stream restoration and maintenance.

### Helping families rebuild

Restore Pennsylvania will establish a disaster relief trust fund to assist individuals who suffer losses that are not compensated by Federal Emergency Management Agency or other programs.

## Stormwater Infrastructure

Restore Pennsylvania will provide grants to municipalities moving forward with Pollutant Reduction Plans to help them implement creative solutions to comply with their stormwater mandates and transform their communities. Additional state funding will reduce the need for new stormwater fees, which have proven unpopular where they have been proposed. Additional incentives will be provided for communities that are working collaboratively with their neighbors to tackle the problem in the most efficient manner possible.

## Downstream manufacturing, business development, and energy infrastructure

### Downstream manufacturing: Pad development, business development, site selection, and energy efficiency

Restore Pennsylvania will provide funding for infrastructure that helps build manufacturing facilities and other downstream businesses for the natural gas produced in Pennsylvania while helping businesses and individuals use more of Pennsylvania's natural gas in their homes, creating jobs, lowering costs, and improving energy efficiency.

### Getting natural gas to businesses

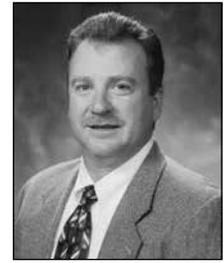
Restore Pennsylvania will provide increased spending flexibility to ensure that more communities and businesses across the state have access to low-cost, clean-burning natural gas. Restore Pennsylvania will also provide grants to help downstream businesses install combined heat and power and micro-grid systems at existing or new facilities.

## Demolition, Revitalization, and Renewal

### Blight demolition and redevelopment

Restore Pennsylvania will increase resources for addressing blight by providing financial resources at the local level to establish land banks and acquire and demolish blighted buildings in order to create new development opportunities or provide new green space. The funding will be administered by entities established by the legislature as land banks or demolition funds.

*Infrastructure continued on Page 22*



**Don Hershey**  
Executive Director

## AWWA Member Utility Spotlight is on: Newtown Artesian Water Company

### HISTORY

The Newtown Artesian Water Company (NAWC) was incorporated in 1888 by a group of local citizens. The Company started out with two wells in 1888. Between 1965 and 1975, the Water Company entered a period of relatively rapid growth. By late 1973, the Company has received inquiries from a number of developers concerning the availability of water service to meet the needs of many proposed residential housing developments. The Company, through the incorporation of its wholly owned subsidiary, Indian Rock Water Company, immediately took the necessary steps to assure that water service would be available for the new developments. Indian Rock Water Company was merged back into Newtown Artesian Water Company on April 2, 1992.

### TODAY

The Newtown Artesian Water Company is a public utility regulated by the Pennsylvania Public Utility Commission, the PA Department of Environmental Protection and the Environmental Protection Agency. NAWC provides water service to customers in

Newtown Borough, Newtown Township, and the Northern portion of Middletown Township in Bucks County, Pennsylvania. The NAWC provides water service within a fully integrated, three-pressure zone distribution system: the low-pressure service zone, the high pressure service zone and the Durham Road pressure zone.

There are a total of five wells supplying the NAWC system. In addition, the company maintains two interconnections for the purchase of water. The first is with the Bucks County Water and Sewer Authority (BCWSA). This water originates in the Delaware River and is treated at the Forest Park Water Treatment Plant in Chalfont. This interconnect is capable of supplying 4.5 million gallons per day and accounts for approximately 45% of the total supply to NAWC. The second interconnection is with the Pennsylvania American Water Company (PAWC) Yardley District. This water originates in the Delaware River and is treated at the PAWC treatment plant in Yardley. This interconnect is capable of supplying 0.750 million gallons per day and accounts for approximately 10% of the total supply to NAWC.

*-Newtown Artesian Water Company website: <https://newtownwater.com>*

# Pennsylvania Water Law

By Michael D. Klein, Esq.

This column will provide overviews of interesting cases and legal issues affecting water suppliers in Pennsylvania.

## The criminalization of violations of the PA Safe Drinking Water Act

**Michael D. Klein** is a Member in the Harrisburg, PA, and Washington D.C. offices of Cozen O'Connor. Michael practices in the areas of utility and environmental law. He can be reached at [mklein@cozen.com](mailto:mklein@cozen.com) and 717-703-5903. This column is intended to be a discussion of legal issues in the water industry. It is not intended to be legal advice, or to establish any attorney-client relationships. Before making any legal decisions regarding anything discussed in this column you should always consult with an attorney.



By the time this article has been published, you will have heard and/or read an abundant amount of information about the 161 criminal charges filed against the Pittsburgh Water & Sewer Authority (“PWSA”), by PA Attorney General Josh Shapiro, on February 1, 2019. This article is not intended to rehash the details you already know about the case. Instead, this article, using the PWSA case as an example, will focus on how an act or inaction may result in both a civil and a criminal violation of the PA Safe Drinking Water Act.

The criminal aspect of the PWSA case is best summarized

by a press release, dated February 1, 2019, from the PA Office of Attorney General. The following excerpt from the press release explains:

“Attorney General Josh Shapiro today filed 161 criminal charges against the Pittsburgh Water & Sewer Authority for failing to notify residents when the agency replaced lead water lines—creating health risks for affected households. The attorney general also charged the Authority with failing to sample water lines following the replacements within the time frame required by state law.”

The Criminal Complaint, alleges in relevant part:

“...PWSA, did violate 25 Pa. Code 109.1107(d)(4)(i) by willfully or negligently failing to provide notice at least 45 days prior to commencing a partial line replacement to affected residents, and/or willfully or negligently failing to collect representative water samples from residences within 72 hours of completion of the partial replacement and providing results of the testing to the affected residents, in violation of 35 P.S. §721.13(d).”

The maximum penalty, under the PA Safe Drinking Water Act, for *each* of the 161 criminal counts is one year in prison and \$12,500, making the maximum dollar total for the 161 counts a tidy sum of \$2,012,500.

There are at least three unique characteristics of the criminal charges for alleged violations of the PA Safe Drinking Water Act brought against the PWSA. The first unique characteristic is that it is extremely rare, if ever, for criminal charges to be brought for violations of the PA Safe Drinking Water Act. In fact, when pressed on this subject, the Office of Attorney General could not recall a prior instance of a utility, public or otherwise, being criminally charged for violation of the PA Safe Drinking Water Act. The second unique characteristic is that in November of 2017, the PA Department of Environmental Protection (“DEP”) and PWSA entered into a Consent Order and Agreement, under which the PWSA paid a civil penalty settlement of \$2,400,000. Among the violations of the PA Safe Drinking Water Act, upon which the civil penalty was based are the following:

“During the period of 2016-2017, PWSA performed non-emergency partial lead service line replacements of the lines serving at least 60 residents without first providing the residents of these structures at least 45 day advance notice of the Authority’s intention to perform partial line replacement, in violation of Section 109.1107(d)(4) of the Regulations, 25 Pa. Code §109.1107(d)(4). For at least 149 residences, PWSA failed to collect a sample of the water from the structures for analysis within 72 hours of partial replacement of the lead service line, in violation of Section 109.1107(d)(4) of the Regulations, 25 Pa. Code §109.1107(d)(4).”

The civil penalty violations, quoted immediately above, are based primarily on the same acts, inactions and section of the Act as the 161 criminal counts discussed above.

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## Erin Threet honored as one of engineering's Top Young Professionals

Erin Threet is being honored by Engineering News-Record (ENR) magazine as one of the Top Young Professionals in the construction and design industry. She is profiled alongside the other honorees in the February issue of ENR's Mid-Atlantic edition.

Threet is an assistant vice president and project manager in the water and wastewater service group at Herbert, Rowland & Grubic, Inc. She joined the firm after graduating from Bucknell University in 2006 and enjoyed a rapid rise through the ranks, being promoted to office manager just six years later. During her time managing the Lewisburg office, its annual revenue has increased by more than 200%. She accomplished this feat while managing the design and construction of millions of dollars in water and wastewater system improvements for a diverse array of public and private

sector clients.

Threet actively participates in the industry as a member of the American Water Works Association and the Water Environment Federation. She is also a board member for the Pennsylvania Water Environment Association and former president of its local chapter, the Central Pennsylvania Water Quality Association.

She has earned numerous accolades for her work to advance these organizations and the sanitary engineering profession, including the Rising Tide Award from the Pennsylvania Section of the American Water Works Association and the Ted Moses High Hat Award from the Pennsylvania Water Environment Association.

She is also an active member of her church counsel and missions committee, and she regularly volunteers her time to



*Erin Threet receives ENR honor from Jason Fralick.*

various community service initiatives.

HRG President Jason Fralick says, "Erin's energy and enthusiasm are inspiring to all of us at HRG. Employees want to work with her, and our clients want her working on their projects. I couldn't be more thrilled to see her receive this honor."

### PA Water Law *Continued from page 6*

This article was prompted by some of you, and others, asking whether it is legal, under the Safe Drinking Water Act, and/or the Constitution, for the government to seek both criminal and civil penalties for the same acts and inactions? Many have asked "isn't that double jeopardy?" The answer to the first question is "yes", and the answer to the second question is "no". The Fifth Amendment to the U.S. Constitution bars state and federal governments from prosecuting individuals for the same *crime* more than once. The civil action that had been brought by DEP against the PWSA was not a prosecution for a *crime*, it was a civil action for alleged civil violations. Therefore, the criminal action brought by Attorney General Shapiro was the first criminal prosecution brought against the PWSA for the alleged criminal violations of the PA Safe Drinking Water Act. Furthermore, Section 13(g) of the Act provides in relevant part "*In addition to proceeding under any other remedy available at law or in equity for a violation of any provision of this act, any rule or regulation of the department or any term or condition of any permit issued by the department, the department may assess a civil penalty upon a person for such violation*" (emphasis added). Section 13(h) provides in relevant part that "*...the existence of or exercise of any remedy shall not prevent the department from exercising any other remedy hereunder, at law or in equity...*" (emphasis added)

The third unique characteristic of the criminal charges is that the Attorney General became involved in the matter because of a criminal referral of the matter to the Office of Attorney General. Section 205(a)(6) of the Commonwealth Attorneys Act, provides in relevant part: "The Attorney General shall have the power to prosecute in any county criminal court the following cases: ... Criminal charges investigated by and referred to him by a Commonwealth agency arising out of enforcement provisions of the statute charging the agency with a duty to enforce its provisions." In the PWSA case the Commonwealth agency making the criminal referral was DEP. The criminal referral stated in part,

"...that the DEP Safe Drinking Water Program developed information that the PWSA failed to comply with regulations under the Pennsylvania Safe Drinking Water Act, 35 P.S. §§721.1 (SDWA); specifically 25 Pa. Code §109.1107(d)(4)(i)."

In the PWSA case, the Attorney General elected to criminally charge the PWSA, and not to charge any individuals. By comparison, in the Flint, Michigan lead in drinking water crisis, 15 individuals have been criminally charged. In the press release issued by the Office of Attorney General, the decision not to charge any individuals was explained as follows: "Attorney General Shapiro said the charges were being filed against the Authority alone because his agents found no evidence of any one single person intending harm to any users of the system."

Under the PA Safe Drinking Water Act, any "person" who violates any provision of the Act may be subject to civil, criminal and equitable remedies. "Person" is defined in the Act as "Any individual, partnership, association, company, corporation, municipality, municipal authority, political subdivision or any agency of Federal or State government. The term shall include the officers, employees and agents of any partnership, association, company, corporation, municipality, municipal authority, political subdivision or any agency of Federal or State government." As you can read, the definition casts a wide net on entities and individuals covered by the civil, criminal and equitable penalty provisions of the Act. My guess is that many of you reading this article fall within the definition of "person" under the Act.

Some final words to the wise, do not become complacent and think that you or your entity will never be considered for criminal charges because: (i) the PWSA is probably the first water system to ever be criminally charged under the Act; and (ii) none of the officials or employees of PWSA were criminally charged. Instead, think that the PWSA case may possibly be the beginning of DEP making criminal referrals to the Attorney General for investigation and prosecution. In other words, consider the PWSA case to be a warning.

## HRG announces new water/wastewater group manager

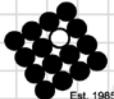
Herbert, Rowland & Grubic, Inc. (HRG) has promoted Justin Mendinsky to manage its Harrisburg-area water and wastewater group. Mendinsky previously served as a team leader in the group and will continue to serve key clients while he takes on new responsibilities overseeing project delivery, operations, business development, and staff training.



Justin Mendinsky

Mendinsky joined HRG in 2004 and was named a shareholder of the firm in 2017. He has a master's degree in environmental engineering and is a registered professional engineer. He is also a member of several leading industry organizations, including the Central Pennsylvania Water Quality Association and the Eastern Pennsylvania Water Pollution Control Operators Association. He is chairman of the Pennsylvania Water Environment Association's Engineering and Construction Committee.

Mendinsky's manager, Ed Ellinger, says, "Justin is known by his fellow employees for his technical capabilities, positive attitude and enthusiasm. These qualities will make him a great leader for this group."



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## Welcome New Members—Spring 2019

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- Michael Andrews, Lower Bucks County Joint Municipal Authority
- Alicia Beauchamp
- Gary Bittner, Road Sprinkler Fitters Local Union 669
- Stuart Burgh, SUEZ Water Technologies and Solutions
- Debra Carnello, WWMA
- Carolyn Christy, RDP Technologies, Inc.
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- Tom Foy
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- Eloise Gibby, Greeley and Hansen
- Rob Harvey, The York Water Company
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- Robert McHale, Northampton Municipal Authority
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- John Riley, Moon Township Municipal Authority
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**PA Section's 71<sup>st</sup> Annual  
CONFERENCE**

**April 16-18, 2019**

*Hershey Lodge and Convention Center  
Hershey, PA*



**HIGHLIGHTS**

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## Conference Special Events Include:

### Tuesday – April 16

Annual Golf Outing at Deer Valley Golf Course  
 Section Meet and Greet at the Hershey Lodge – Cocoa Suite #3 & #4

### Wednesday – April 17

Full Day of Operator’s Sessions	Young Professionals Poster Contest, Tank Building Contest and Hydrant Hysteria
Business Luncheon and Awards Presentations	Water Taste Test
Exhibit Hall Monopoly Game	Exhibit Hall Social Event
Water for People Silent Auction	DBIA Sponsored Event at Your Place Restaurant
Partnership for Safe Water Social Mixer	

### Thursday – April 18

Exhibit Hall Breakfast	Exhibit Hall Luncheon
Full Day of Technical and DBIA Sessions & Harmful Algal Bloom Course	Water for People Silent Auction
	Monopoly Game and PA AWWA Raffle

## Be part of the crowd at DBIA’s Annual Conference Networking Event

Join DBIA, along with PA AWWA attendees, at the Annual DBIA Networking Event on Wednesday evening, April 17, 2019, at Your Place Restaurant from 7:00 to 10:00 PM. The cost is free, but as usual wristbands are required. Wristbands are available at the DBIA, Stone Hill Contracting and Water For People Booths on the exhibit floor, or can be obtained in advance, by contacting Nickole Uva at Stone Hill Contracting (215-340-1840 or NMUva@StoneHillContracting.com).

Your Place Restaurant is located adjacent to the Hershey Lodge across the parking lot from the Hershey Grille. There will be food, some door prizes, as well as liquid refreshments. Beverage tickets (2 per person) will be distributed at the door. Additional drinks are available on a pay as you go basis. A special thanks to the DBIA Sponsors for hosting this great event. Sponsors include: The Bell Company, Johnston Construction, Haskell Construction, Stone Hill Contracting Co., Inc. There is a limited number of wristbands available (due to facility and fire restrictions), so get your wristbands early.

## Join the tour of two Design Build water treatment plant projects



There will be an interesting tour of SUEZ’s Hummelstown (PA) membrane filtration plant along with its Sixth Street plant.

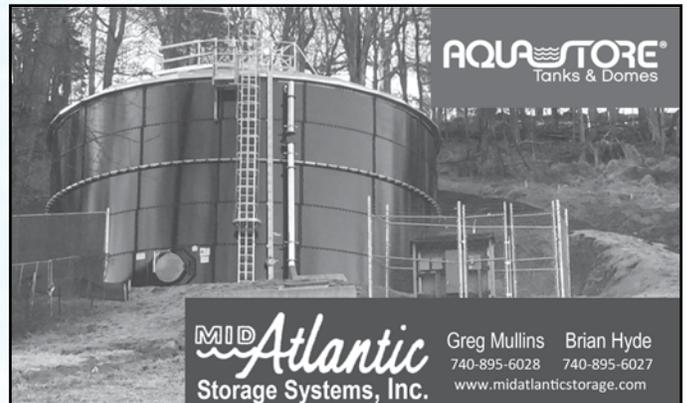
SUEZ Water, along with DBIA, are proud to offer a tour of two (2) local water treatment facilities. Both of these projects had construction performed by the Design Build Procurement method. Both projects, were constructed by Black and Veatch Engineers, teaming with local contractors.

The Harrisburg Sixth Street Water Plant was upgraded by Johnston Construction in 2005, and the Hummelstown Water Treatment Plant was constructed by Conewago Construction.

The Harrisburg Sixth Street plant was a high-rate clarifier water treatment plant process renovation and upgrade and the Hummelstown Project was a new 4 MGD Membrane treatment plant.

Join the tour on Wednesday, April 17, 2019, but pre-registration is required. Tour will leave promptly at 8:00 AM from the Hershey Lodge Convention area entrance (Near Hershey Grille) and will return around 11:30 AM.

**To sign up for the plant tours in advance or for more info on the DBIA Conference, contact Nickole Uva at NMUva@StoneHillContracting.com or at 215-340-1840.**



## Hotel Information and Local Attractions

NEW  
ATTRACTION  
IN  
HERSHEY:

### HOTEL INFORMATION

Reserve your room now at the  
**Hershey Lodge and  
Convention Center**

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The Hershey Story Museum

**NOTE:** Rooms assigned on a first-come,  
first-serve basis

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### THE HERSHEY MUSEUM

63 W. Chocolate Ave., Hershey, PA 17033  
(717) 534-3439

The Hershey story explores the rags to riches accomplishments of an American entrepreneur who used wealth to enrich the lives of others. Hear never-before shared stories of his innovation and determination. Find out how Mr. Hershey revolutionized the process of making milk chocolate. Discover how the Hershey Industrial School's orphan boys became heir to his fortune.

From the interactive Museum Experience and its creative Apprentice Program to the Chocolate Lab to Café Zooka and the Museum Shop, the sweet results of Mr. Hershey's vision will inspire all who enter The Hershey Story.

### THE IRON HILL BREWERY

101 West Chocolate Avenue • Hershey, PA 17033  
Phone: (717) 312-5164

During the Revolutionary War, a fierce battle is fought atop Iron Hill, outside of Newark, Delaware. Soldiers fight for life, liberty, and the pursuit of happiness – unaware that in more than 200 years, a group of Delaware locals will exercise that right to pursue happiness by opening a brewery right down the road. They will name it Iron Hill in honor of what the soldiers fought for.

Just in time for their official 20-year celebration, the team brings back a medal from the Great American Beer Festival. It is, serendipitously, their 20th consecutive year bringing home a GABF award.

### THE OUTLETS AT HERSHEY

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### HERSHEY'S CHOCOLATE WORLD

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The Free tour experience shows Hershey's chocolate making process. It begins in the tropical rain forest where cacao beans grow. As the beans are harvested, follow their journey across the ocean to America, where they are delivered to The Sweetest Place on Earth – Hershey, Pennsylvania. Then engage your senses as the cocoa beans continue through a simulated Hershey's Chocolate Factory. Here you will see, feel, and hear the processes that deliciously transform the beans into milk chocolate. Using real factory equipment, you can choose the ingredients and watch your candy bar actually being made on the assembly line. You can also design your own wrapper and add a personal message.

### 71<sup>ST</sup> ANNUAL PA-AWWA CONFERENCE SPONSORS

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# 2019 PA-AWWA CONFERENCE

## CONFERENCE SCHEDULE

TIME	TUESDAY - APRIL 16	LOCATION
10:00 am – 5:00 pm	Annual Golf Outing at Deer Valley Golf Course	Deer Valley Golf Course
6:00 am – 8:00 pm	Meet and Greet Social Gathering at the Hershey Lodg	Cocoa Suites 3 & 4
TIME	WEDNESDAY - APRIL 17	LOCATION
7:00 AM - 5:00 PM	Conference Registration	Great Lobby
8:00 AM - 11:30 AM	DBIA Sponsored Tour of the SUEZ Water Plants in Harrisburg and Hummelstown	Harrisburg & Hummelstown, PA
8:00 AM - 9:00 AM	<b>Operator's Breakfast</b> - continental breakfast setup in each session room.	Magnolia A & D
8:30 AM - 5:00 PM	<b>Full Day Operator's Session</b> – earn up to 12.5 PA DEP Contact Hours	
	<b>8:30 AM - 12:00 Noon:</b> Operator Hydraulics - Dealing with Those Unusual Days Dr. Thomas Walski (Bently Systems) 2.5 PA DEP Contact Hours (water)	Magnolia A Confection Hall Level
	<b>8:30 AM - 12:00 Noon:</b> Method 334.0 Workshop, Joe Matucci & Sheryl Martin (DEP) 3.0 PA DEP Contact Hours (water)	Magnolia D Confection Hall Level
	<b>12:30 PM - 5:00 PM: Cyber Security in the Water Sector</b> - Bob Daly, EMA, Inc. 4.0 PA DEP Contact Hours ( water & wastewater)	Magnolia A Confection Hall Level
	<b>1:00 PM - 4:30 PM:</b> The Valve Workshop - Mueller Company & Ferguson Waterworks 3.0 PA DEP Contact Hours (water and wastewater)	Magnolia D Confection Hall Level
9:00 AM - 11:30 AM	<b>Opening Session &amp; Keynote Speaker</b> - Vai Sikahema played football for the St. Louis Cardinals & the Philadelphia Eagles and is currently the morning news anchor for NBC10 News Today. The AWWA Rep, Dr. Joe Jacangelo, Int'l Council Chair (2017-2020) for American Water Works Association, will provide the Opening Session Remarks. Michael Klein and Erik Ross will provide Legal and Legislative Updates.	Magnolia B & C Confection Hall Level
10:00 AM - 1:00 PM	Exhibit Hall Set Up - Vendors	Blue and White Room
11:30 AM - 1:00 PM	Business Luncheon & Awards Presentations	Empire A,B,C&D Confection Hall Level
1:30 PM - 4:30 PM	Technical Sessions - 2 Separate Rooms (1 PA DEP Contact Hour)	Magnolia B & C Confection Hall Level
1:00 PM	Exhibit Hall Opening	Blue and White Room
1:00 PM - 7:00 PM	Silent Auction and Fresh Ideas Poster Contest and Monopoly Game	Blue and White Room
3:00 PM - 4:30PM	PA-Section Committee Open House/PA-AWWA PFSW Mixer	Crystal A - Confection Hall Level
3:00 PM - 4:30 PM	<b>BREAK</b>	Blue and White Room
3:00 PM - 7:00 PM	Water Taste Test (3-6 PM); Celebrity Panel Taste Test (6:15-7:00 PM)	Blue and White Room
6:15 – 7:00 PM	Celebrity Panel of Judges award Best Tasting Water; Winner competes at ACE 17	Blue and White Room
4:30 PM - 7:00 PM	Hydrant Hysteria Contest (4:30-5:30 PM); Tank Building Contest (5:30-6:30 PM)	Blue and White Room
5:00 PM - 7:00 PM	<b>Exhibit Hall Networking Event</b> - visit reps from the water industry's leading companies. Participate in the Vendor Drawing and the Monopoly Game and you could win a prize! Take part in the Water for People Silent Auction for a great cause! Appetizers, beer and wine will be served.	Blue and White Rooms
5:30 PM & 6:30 PM	<b>Vendor Drawings</b> - Exhibit Hall	Blue and White Room
7:00 PM	<b>DBIA Sponsored Event.</b> Must get wristband from DBIA Booth.	Your Place Restaurant
TIME	THURSDAY - APRIL 18	LOCATION
7:00 AM - 1:00 PM	Conference Registration	Great Lobby
7:00 AM - 8:30 AM	Exhibit Hall Breakfast - breakfast buffet	Blue and White Room
7:00 AM	Exhibit Hall Opens	Blue and White Room
8:00 AM - 11:30 AM	Design-Build Institute of America Sessions Track 1 and Track 2	Empire A & B Confection Hall Level
8:00 AM - 11:30 AM	PA-AWWA Technical Sessions Track 1 and Track 2	Empire C & D Confection Hall Level
8:00 AM - 1:30 PM	Water For People Silent Auction and Monopoly Game	Blue and White Room
8:30 AM - 3:30 PM	<b>Updated Information on a Threat to Our Water Supply: Harmful Algal Blooms</b> Approved for 5.5 DEP Contact Hours (Water)	Wild Rose B
9:00 AM - 11:30 AM	Water Utility Council Committee Meeting	Wild Rose A
10:00 AM -10:30 AM	Morning Exhibit Hall Break/Vendor Raffle Drawings/Monopoly Game	Blue and White Room
12:00 Noon - 1:30 PM	<b>Exhibit Hall Lunch</b> - lunch and visit exhibitors	Blue and White Room
12:00 Noon - 1:30 PM	<b>Networking Lunch</b> - Diversity, Membership, and YP Committees invite their members to meet peers, share ideas, and learn how to get involved in AWWA!	Blue and White Room
12:00 Noon - 5:00 PM	Registration and Operator Certification Testing	Magnolia A,B,C & D Confection Hall Level
1:30 PM - 5:15 PM	Design-Build Institute of America Sessions Track 1 and Track 2	Empire A & B Confection Hall Level
1:30 PM - 5:15 PM	PA-AWWA Technical Sessions Track 1 and Track 2	Empire C & D Confection Hall Level
2:00 PM	Exhibit Hall Teardown	Blue and White Room
2:30 PM	Afternoon Break / Ipod Giveaway	Confection Hall Level
5:00 PM - 6:00 PM	Board Meeting	Crystal A Confection Hall Level
6:00 PM - 8:00 PM	Board Meeting Dinner	Crystal A Confection Hall Level

## AWWA Cybersecurity course being presented at PA Section Conference

This course will teach participants how to use the AWWA Cybersecurity Guidance Tool



**Course Instructor:** Bob Daly, EMA Services, Inc.: Bob has over 30 years of experience working with water and wastewater mission critical systems in the United States. He has directed enterprise teams caring for SCADA, GIS, LIMS, and Operational Data Management Systems. He has over 17 years of operations and maintenance experience within water utilities.

**Date:** Wednesday, April 17, 2019  
**Location:** Hershey Lodge & Convention Center  
**Registration:** Noon – 12:30 p.m.  
**Course:** 12:30 – 5:00 p.m.  
**Fee:** \$115 AWWA/WWOAP Members  
*(1 day operator's conference registration)* • \$200 Non-members  
**4 PA DEP Contact Hours:** Water & Wastewater

### Who should take this course?

- Utility Managers who Oversee Cybersecurity.
- Utility IT Professionals & Consultants
- Network & SCADA Technicians

### Agenda

- Module 1:** Why is Cybersecurity Important?
- Module 2:** Selecting Use Cases
- Module 3:** Reviewing Recommended Controls
- Module 4:** Executing Tool
- Module 5:** Implementing Recommendations.

### Why take this course?

A North Carolina water utility was recently the victim of a ransomware attack. • Employees are constantly receiving phishing emails that contain harmful malware that if opened can comprise the utility's network. • Hackers can find a backdoor into a utility through a poorly defended vendor's network who has remote access to SCADA etc. • A Trojan cell phone app can provide an attacker with access to utility Wi-Fi networks.

## Updated Information on a Threat to Our Water Supply: Harmful Algal Blooms

**Thursday, April 18, 2019 • 8:30 am to 3:30 pm**  
**PA Section AWWA Conference**  
**Hershey Lodge & Convention Center, Hershey, PA**  
**Fee: Free to Full Conference Attendees**  
**One Day Conference: \$115 AWWA Members, \$200 Non-Members**  
**DEP Contact Hours: 5.5 (Water)**

Microcystins have recently been detected in some raw water supplies in Pennsylvania. Some groups of cyanobacteria can produce cyanotoxins, which if not properly treated, can negatively impact the health of drinking water consumers. This course will cover which cyanobacteria are a threat, the latest sampling and testing techniques, updated treatment options, and trigger points for issuing public notifications. You'll hear updated information from experts in the field along with guidance from water system personnel & regulators.

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TECHNICAL SESSIONS

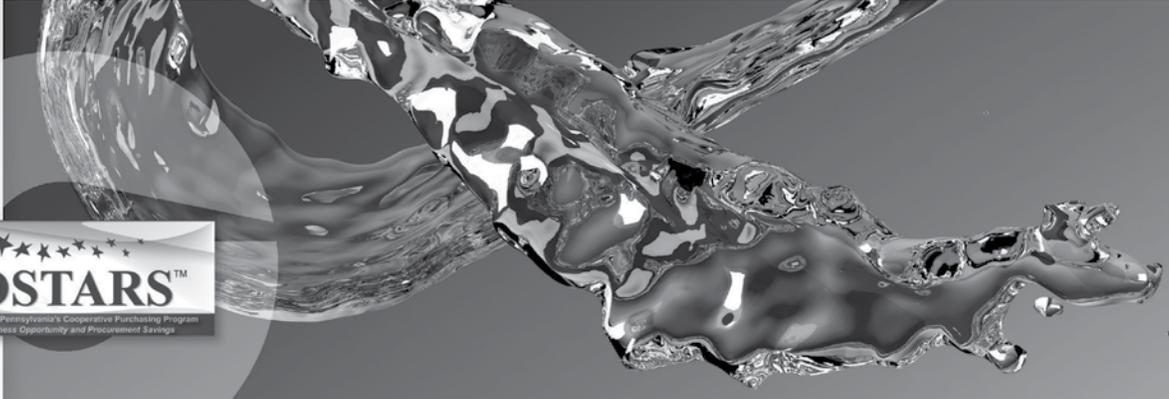
WEDNESDAY, APRIL 17, 2019		
	MANAGEMENT TRACK #1 – MAGNOLIA B ROOM	WATER QUALITY/TREATMENT TRACK #2 – MAGNOLIA C ROOM
1:30 PM - 2:00 PM	<b>Daniel Jeon, PE &amp; Rachel Govelovich, PE</b> "American First but Steels are Coming from Overseas!" Compliance Lessons Learned from Recent Projects	<b>Sophia Liskovich, PE</b> Maryland's Newest Dam Preserves a Community's Most Valuable Resource
2:00 PM - 2:30 PM	<b>Patti Kay Wisniewski</b> AWIA Requirements Now and into the Future	<b>Tex Enoch, Dan Goldhahn &amp; John Stoltzfus</b> West Chester University Pedestal Spheroid Water Storage Tank Installation of 2 Antenna Corrals and Repainting of Tank
2:30 PM - 3:00 PM	<b>George Kunkel, PE</b> An Overview of AWWA's New Guidance Report on Residential Fire Sprinkler Systems	<b>Jim DeWolfe</b> Inside Buffalo's Proactive Lead Corrosion Control Program
PM Break 3:00 - 3:30PM		
3:30 PM - 4:00 PM	<b>Richard Michelfelder, Ph.D. &amp; Gary D. Shambaugh</b> Electricity in the 1970's, Water in the 2020's	<b>Mike Dirth</b> The Role of CO2 for Lead Corrosion Control
4:00 PM - 4:30 PM	<b>Roy Mundy</b> Managing Generational Differences in the Workplace - (Updated Research)	<b>Todd Plank</b> Digital Work Management Through Web Based GIS Mapping for Efficient Water and Sewer System Operations
THURSDAY, APRIL 18, 2019		
	MANAGEMENT/DISTRIBUTION TRACK #1 – EMPIRE C ROOM	WATER QUALITY/TREATMENT TRACK #2 – EMPIRE D ROOM
8:00 AM - 8:30 AM	<b>Adam Carpenter</b> Building Partnerships with Agriculture to Protect Source Waters	<b>Robert Newton, PE</b> Status of Chlorate Regulations & Impact at Water Treatment Plants
8:30 AM - 9:00 AM	<b>Jamie Shambaugh &amp; Matt Carnish</b> Overcoming Numerous Challenges to Achieve a Reliable Water Supply	<b>John Civardi</b> The Waters of Life - Protecting Our Veterans with a State of the Art Membrane Plant
9:00 AM - 9:30 AM	<b>John Brutz</b> A Penny Saved is a Penny Earned - Savings Realized from Three PA Water Utilities	<b>Hollie Scott, PE</b> Optimizing Performance of Granular Media Filters
9:30 AM - 10:00 AM	<b>Rocky Craley</b> Pittsburgh Water and Sewer Authority is on New Ground with PUC Oversight	<b>Orren Schneider, Ph.D. PE.</b> Monitoring, Predicting, Preventing and Controlling of (toxic) Cyanobacteria Blooms in Lakes and Reservoirs
AM Break in the Exhibit Hall 10:00 - 10:30 AM		
10:30 AM - 11:00 AM	<b>Keith Cartnick</b> UCMR4 Cyanotoxins - What will you do if you find them?	<b>Charlie Liu, PE</b> Unique Approaches to Upgrade the Pretreatment Facility at a 15-MGD Water Filtration Plant
11:00 AM - 11:30 AM	<b>Ron Milke</b> UCMR4 - What are we seeing?	<b>Ryan Thomas, Ph.D.</b> Laboratory Treatability Studies for PFAS-impacted Water
Exhibit Hall Lunch 11:30 AM - 1:30 PM		
	DISTRIBUTION TRACK #1 – EMPIRE C ROOM	WATER QUALITY/TREATMENT TRACK #2 – EMPIRE D ROOM
1:30 PM - 2:00 PM	<b>Robert Horvat, PE</b> Making a Dramatic Impact on Water Loss	<b>Eric Forrester</b> Addressing Emerging Contaminants with Granular Activated Carbon
2:00 PM - 2:30 PM	<b>Christine Gunsallus</b> Easy, Low Cost Ways to Extend the Life of Your Tank	<b>Steven Marrano</b> Application Experience with Medium Voltage Drives on Send Out Pumps
PM Break 2:30 - 2:45 PM in the Exhibit Hall		
2:45 PM - 3:15 PM	<b>Matthew Junker (4 others listed)</b> GIS Integration for Daily Operations and Public Appreciation	<b>Stephen Waldvogel, PE &amp; Teresa Misiti, Ph.D.</b> Cyanotoxin Evaluation and Treatment in the New York State Finger Lakes Region
3:15 PM - 3:45 PM	<b>Carl Sharkey</b> Intelligent Meter Asset Management: Prioritizing Your Meter Replacement Program	<b>Jim Balliet</b> State College Borough Water Authority - Treatment Plant Design for Emerging Contaminants
3:45 PM - 4:15 PM	<b>Joseph Fusillo, PE</b> NSF 61 Spray-Applied Structural Epoxy Lining Installation - Merrick Road, Massapequa, New York	<b>Frank Sidari, PE</b> Managing Bacteria in Building Water Systems
4:15 PM - 4:45 PM	<b>Nicole Clarke</b> Partnering with the US Navy: A Guide to Effective, Long-Term Water Storage Tank Maintenance on a Global Scale	<b>David Woods</b> Universal Remedial Solution to Provide Safe PFAS-Free Water as Competing Technologies Develop
4:45 PM - 5:15 PM	<b>Mike McGill</b> Using Today's Communications Landscape to Gain Support for Infrastructure Funding	<b>Paul Yaroschak, PE</b> Current & Emerging Solutions to the PFAS Challenge

**DESIGN BUILD INSTITUTE OF AMERICA (DBIA) LIBERTY REGION - CONFERENCE SESSIONS**

Time	Wednesday April 17, 2019	Location	
8:00 AM - 11:30 AM	Site Visit to SUEZ Water 6th Street WTP and Hummelstown Water Treatment Plants - 6th Street was upgraded utilizing Design Build and Hummelstown was built Design Build	Meet at main entrance to Convention center for transportation to sites	
7:00 PM - 10:00 PM	DBIA Networking Event - Wristbands required - No cost Wristbands can be picked up at the DBIA or Stone Hill Contracting Booths in the Exhibit Hall	Your Place Restaurant, Located adjacent to Hershey Lodge	
Time	Thursday, April 18, 2019	Location	Presenters
8:00 AM - 9:00 AM	Penn State University's Third Party Review Improves Value of WRF Upgrade		Mark Pickering, PE and Joel Kostelac, PE GHD
9:00 AM - 10:00 AM	Introduction to Design Build		Steve Ruether - The Bell Company
9:00 AM - 10:00 AM	Mainstreaming Alternative Delivery		Rich Atoulikian, PE HDR
10:00 AM - 10:30 AM	<b>AM Break- Exhibit Hall</b>		
10:30 AM -11:30 AM	Bonds and Insurance for Alternative Delivery		Gary Rispoli - Construction Risk Partners
10:30 AM -11:30 AM	Size Doesn't Matter - Design-Build to Fine Tune Long Term Asset Management - Part II		Chuck Suenkonis, P.E. and Kristy Monahan, Johnston Construction
11:30 AM - 12:00 PM	Exhibit Hall Visit with Vendors		
12:00 PM - 1:30 PM	Exhibit Hall Luncheon		
1:30 PM - 2:30 PM	P3s are they the Future of US Infrastructure		Robert McIntyre - Stone Hill Contracting
2:30 PM - 2:45 PM	<b>PM Break in Exhibit Hall</b>		
2:45 PM - 4:15 PM	Project Focus - Medina County Digester Project - Liverpool WWTP Improvement & Efficiency Project		Al Lettinga - Lipp Tanks, USA

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**AWWA Representative will share a wealth of knowledge at conference**

Dr. Joe Jacangelo is Vice President and Director of Research for MWH Americas with over 30 years of experience in the field of environmental health engineering. He has specialized in water quality and treatment, water/wastewater disinfection, membrane technology and public health. He has served as Technical Director, Principal Investigator, Project Manager or Engineer for over 80 water and wastewater projects, and he has published over 100 papers. He has been an active member of AWWA since 1983.



Dr. Joe Jacangelo

Joe is the current Chair of the International Council. He is also a past Board Member, past Chair of the Technical and Education Council and Member of the Executive Committee for the American Water Works Association (AWWA), and he has served as either chair or member of 26 of that organization's various committees. He has participated on over 30 advisory or conference planning committees for various water and wastewater organizations. Joe is also the past Chair of the Board of Directors of the Water Reuse Research Foundation, and he was a member of the editorial advisory board for the Journal of Water Reuse and Desalination.

In addition to his role at MWH, Dr. Jacangelo is an adjunct faculty member at the Johns Hopkins University Bloomberg School of Public Health. Dr. Jacangelo is a past recipient of the AWWA Golden Spigot Award, the AWWA Volunteer of the Year Award, and the AWWA Best Paper Award in water quality for his work on low pressure membranes for removal of protozoa and viruses. Finally, Dr. Jacangelo served for three years as a Peace Corps Volunteer in the Republic of the Congo.

**'Philadelphia Living Legend' is keynote speaker**

Vai Sikahema attended Brigham Young University, where he played football and earned his degree in Broadcast Journalism. He is a member of BYU's Hall of Fame and in 2013 was inducted into the Philadelphia Broadcast Pioneers' Hall of Fame. He has earned two Mid-Atlantic Emmy® Awards for his work in local television.



Vai Sikahema

In 2011, he received a commendation from the Congressional Caucus of Adoption in Washington, D.C., for his dedication to "Wednesday's Child." In 2012, he was presented the Deseret News President's Award in Salt Lake City, Utah for his weekly column, "Vai's View," which he penned from 2010 to 2012. In 2015, Philadelphia City Council recognized Vai as a "Philadelphia Living Legend" for his work in television and the community.

Vai's broadcast career began at KSAZ in Phoenix while he was with the Cardinals, and with WFRV in Green Bay, Wisconsin during his stint with the Packers. He ultimately ended up in Philadelphia as an Eagle from 1992 to 1994. He was a running back and kick returner for the team, and is ranked first among the NFL's all-time career leaders in number of punt returns and second in punt return yardage.

A native of Nuku'Alofa, Tonga, English is Vai's second language. He resides in New Jersey and is a local leader in the Church of Jesus Christ of Latter Day Saints in Cherry Hill. Vai is dedicated to serving the community and played an active role in helping to secure the property for his church to build the first Mormon Temple in Pennsylvania in Center City.

Vai Sikahema is currently a morning news anchor for NBC10 News Today. Vai joined NBC10 in 1994. In addition to his anchoring duties, Vai hosts "Wednesday's Child," a weekly feature promoting the adoption of area children. The feature is sponsored by the National Adoption Center and the Dave Thomas Foundation for Adoption.

**ANNUAL GOLF OUTING — REGISTRATION FORM**

**To Sign Up:** Send the completed form below to the PA-AWWA office along with your conference registration form and payment.

Name: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 Email: \_\_\_\_\_

**DEER VALLEY GOLF COURSE**

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**List Foursome Names below.** If you do not have a foursome, you will be assigned to a group at the tournament.

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**Contact:**

**Tim Trout,** (215) 353-3111 Or Don Hershey, (717) 774-8870, [donhershey@paawwa.org](mailto:donhershey@paawwa.org)

**April 16, 2019 • 10:00 AM Shotgun Start**

*Four Person Scramble*  
 Includes: Golf Cart, Lunch & Beverage



**Deer Valley Golf Course**  
 COST: \$360/FOURSOME • \$ 95/GOLFER  
 (cost savings of \$20.00)

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Have your organization name displayed at the golf course. Recognition will be given in the *Water News Source* Newsletter and the PA-AWWA Website

- EAGLE SPONSOR \$200**  
 Organization Name displayed on a "Tee Box" OR as Sponsor of the "Longest Drive" or "Closest to Pin" Contests & Common Sign at golf course

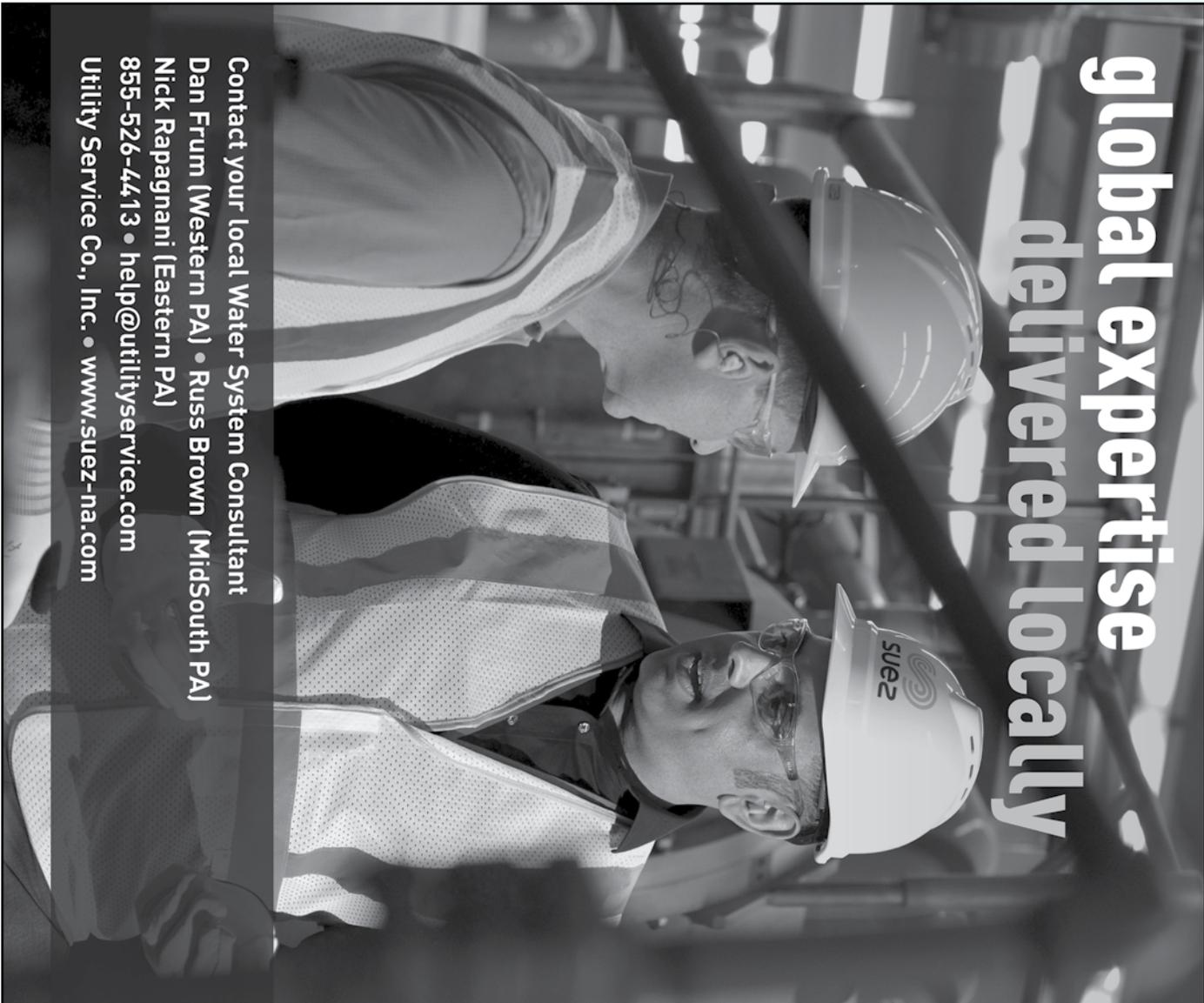
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- BIRDIE SPONSOR \$100**  
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2019 PA-Section AWWA 71st Annual Conference Registration Form-Hershey, PA

**Conference Attendee Information**

Please check appropriate box

NAME \_\_\_\_\_ TITLE \_\_\_\_\_  
 ORGANIZATION \_\_\_\_\_  
 MAILING ADDRESS \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_  
 PHONE \_\_\_\_\_ FAX \_\_\_\_\_  
 EMAIL \_\_\_\_\_ AWWA/DBIA Member # \_\_\_\_\_  
 Optional Demographic Info (check any that apply) CLIENT ID # \_\_\_\_\_  
 New Member  Young Professional

- Regulator
- Manager
- Consultant
- Operator
- Vendor

**SECTION I / Conference Selection**

- Full Conference** (April 16-18, 2019)
- Water Utility Operator - Reduced \$165
  - Federal/State Employees - Reduced \$165
  - AWWA Member - Utility \$215
  - AWWA Non-Utility/DBIA Member \$265
  - Non-Member \$325
  - Student or Guest \$ 50  
(Guest Fee is for Spouse Registration)
- \* There is no registration fee for children 12 and under*

- One-Day Registration** (April 17 or 18)
- Wednesday  Thursday
  - Water Utility - Reduced \$115
  - AWWA Member - Utility \$140
  - AWWA-Non -Utility/DBIA Member \$165
  - Non-Member \$200
  - Presenter (Full Conference) \$100

**SECTION I Subtotal**  
 \$ \_\_\_\_\_

**SECTION II / Operator Sessions** (Class size is limited, please select desired courses.)

WEDNESDAY	PRESENTER	COURSE	PA DEP CONTACT HRS.
<input type="checkbox"/> 8:30 am – 12:00 pm	Dr. Thomas Walski Bentley Systems	Operator Hydraulics-Dealing With Those Unusual Days	2.5 PA DEP Hours - Water
<input type="checkbox"/> 8:30 am – 12:00 pm	Joe Maticci & Sheryl Martin PA-DEP	Method 334.0 Workshop	3.0 Hours PA DEP - Water
<input type="checkbox"/> 12:30 pm – 5:00 pm	Bob Daly, EMA, Inc.	Cybersecurity in the Water Sector	4.0 Hours PA DEP - Water & Wastewater
<input type="checkbox"/> 1:00 pm – 4:30 pm	Robert Waldele Mueller Company & Ferguson Waterworks	The Valve Workshop	3.0 PA DEP Hours -Water & Wastewater
THURSDAY			
<input type="checkbox"/> 8:30 am – 3:30 pm	Multiple Presenters	Update on Threat to our Water Supply: Harmful Algal Blooms	5.5 DEP Contact Hours - Water

**SECTION III Subtotal**

**SECTION III / Special Event Fees**

**Tuesday, April 16, 2019 – 10 AM Start** (For Golf Sponsorship Opportunities see the Golf Flyer)

\*Golf Outing at Deer Valley Golf Club  
 Per Individual Golfer \$ 95.00 x \_\_\_\_\_ = \$ \_\_\_\_\_  
 Foursome \$360.00 (\$90 per Golfer) \$360.00 x \_\_\_\_\_ = \$ \_\_\_\_\_

\$ \_\_\_\_\_

**Tuesday Evening Event**

\*Meet and Greet for all conference attendees will be held in the Cocoa Suites 3 & 4 from 6 PM to 8 PM.  
 Please indicate number of people attending: \_\_\_\_\_

**LATE FEE**

\$ **25.00**

**Wednesday, April 17, 2019**

\*11:30 am - 1:00 pm Business Luncheon (PA Section) \$ 50.00 x \_\_\_\_\_ = \$ \_\_\_\_\_  
 \*7:00 pm - 10:00 pm DBIA's Social Event – Your Place Restaurant (complimentary food/beverages).  
 Please indicate number of people attending: \_\_\_\_\_

After March 29, 2019  
 Add to Grand Total

**Registration & Payment / Deadline March 29, 2019 Late Fee \$25.00**

- American Express  VISA  Mastercard  Check (made payable to: PA-AWWA)

Credit Card # \_\_\_\_\_ Expiration Date \_\_\_\_\_  
 Signature \_\_\_\_\_

**GRAND TOTAL**

\$ \_\_\_\_\_

MAIL: PA-AWWA, P.O. Box D, New Cumberland, PA 17070 FAX: (717) 774-0288 ONLINE: visit www.paawwa.org

## Thinking of becoming a member of the Partnership for Safe Water programs?

By Paul Zielinski, Partnership Rep

The Partnership for Safe Water offers three programs that can assist utilities in optimizing their water treatment facility operation (Treatment program), their groundwater treatment system (Groundwater program) and/or their water being distributed to all customers after it exits the treatment facility (Distribution program).

Membership in any of the programs provides many benefits. First, the programs provide a detailed, systematic method to follow to begin looking at the various aspects of your operations. A program manual and EXCEL based software is used by utilities to take a detailed look at their systems. Second, information reviewed during the optimization process can assist in maintaining compliance with drinking water regulations. Third, systems can improve teamwork and communication of workers by having them directly involved in the optimization efforts.

Program representatives are available to provide assistance on an as-needed basis to assist utilities in meeting their voluntary goals of the program. **All operations can be optimized – it is a continual process that can provide improved water quality to customers, can possibly streamline and optimize task times, and may provide some cost reduction.**

The utility determines what particular phase they wish to accomplish within each of the programs. They also set their own timeline to get there. If you are interested in participating in any of the programs and wish to learn more of the details, feel free to contact Paul Zielinski at 717.645.2636 by call/text or by email at paulzielinski@comcast.net.



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## Tips for maintaining a ‘picture perfect’ water storage tank

By Erin Schmitt, media director for Pittsburg Tank & Tower Group

Have you ever played the game where you look at a photograph or illustration and spot what’s wrong with the picture? Maybe a photo shows some anachronism like an astronaut in medieval times. Or maybe an illustration shows an elephant in the middle of a football field. Whatever it is, you know something is off with the picture. Looking at photos from inspections of water towers can sometimes be a little like playing the game spot what’s wrong with the picture. A series of pictures published in inspection reports can show several things amiss.

For example, imagine a water tank located near homes in a sprawling subdivision. Neighborhood residents range from toddlers and small children to elderly citizens. Several of the homes, though not all, have fences. Strangely though, there is no fence around the tank. Given the vital nature of potable water tanks, it should be obvious that a tall fence, probably topped with barbed wire, should surround the water tower to protect it from intruders. A lock should also keep the gate shut.

A final touch would be to post a “No trespassing” sign and a “Warning, tampering with this facility is a federal offense (U.S. Code title 42, section 300i-1) sign. According to the code, “any person who tampers with a public water system shall be imprisoned for not more than 20 years, or fined in accordance with title 18, or both.”

In the post-9-11 world, there have been concerns about preventing terrorists from poisoning water supplies. Building fences and putting locks on gates and on towers’ manways is a



### No fence

*Water storage tanks should be fenced to help prevent unwanted intrusions.*

relatively inexpensive way to guard against a terroristic threat. It’s also a good way to keep bored teenagers from scaling the water towers and tagging it with spray paint.

An elevated water tower in Kouts, Indiana has been struck twice by vandals in less than a year, according to a WGN report. The tower was repainted in 2018 after it was defaced with a vulgar image. In January, someone scaled the 60-foot tower to scrawl a racial slur. The town had plans to repaint the tower again once the weather warms up, erect a fence to keep out intruders and install security cameras.

People aren’t the only things that can invade a water tower’s space. Picture an elevated water tower lofted high in the air on steel legs. These legs are held in place by concrete foundations that need to be sturdy enough to keep the giant infrastructure upright. Weeds or vegetation can create cracks and damage a concrete foundation. Overgrown greenery can lead to deterioration of the structural components of a tank. That’s why it’s important to pull weeds and keep vegetation clear of a tank’s columns. As it states in OSHA 1926.151 C (3), “The entire storage site shall be kept free from accumulation of unnecessary combustible materials. Weeds and grass shall be kept down and a regular procedure provided for the periodic cleanup of the entire area.” Weeds and vegetation growth should be kept at least five feet away from the tank. Tree growth should be kept at least 30 feet away from the tank.

It’s a good rule of thumb to keep a tank free of debris. Weeds sprout up organically, so it’s not unusual to find overgrown vegetation on or near the columns of a tank. Items should definitely not be deliberately stacked up by the tower, especially if it’s flammable. During one inspection in the Midwest, inspectors observed that firewood and outdoor lounging furniture had been stacked up right next to a water tower. The inspectors recommended removing the debris and combustible material from around the tank foundation.

Keeping foundations in tip-top shape is necessary to ensure a tank’s structural integrity. Structural damage or even failure is often caused by eccentric loadings on a steel tank. Foundations should be examined annually at a minimum to ensure that no fractures or cracks have developed. The base of the tank should be inspected to make sure there are no voids or gaps

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*Water Storage Tanks continued on Page 21*

## Water Storage Tanks ... *continued from Page 20*

between the tank bottom and foundation due to settlement. If there are any signs of crumbling, deep cracking or exposed reinforcing steel, a professional inspector should be hired to check the tank as soon as possible, according to AWWA Manual M42.

Operators should make sure that all dirt, debris and loose gravel is removed from the foundations. Debris that is in contact with the tank shell or appurtenances attached to the tank, like a ladder, is particularly concerning. Any cracks should be quickly repaired. Concrete can be patched up with a commercial non-shrinking grout. Use a sealant to seal the foundations.

Anchor bolts are also a key part of a tank's structural integrity. They should be able to withstand 100 mph winds blowing in any direction as required by AWWA D100-11; 3.8: Anchorage. Operators should periodically clean the anchor bolts and the areas around them. Then operators should visually inspect anchor bolts and nuts to verify if they are in good condition and tight.

Tanks are subjected to all kinds of weather patterns, including thunderstorms that produce lightning. The electric current from lightning is drawn to the strongest conductor around. Metals like steel is a good conductor. Water can also be a conductor. A tank should be electrically grounded for lightning protection as required by OSHA 29 CFR 1926 (K).

Imagine a tank situated in a coastal area. Tanks located near saltwater are more prone to deterioration due to the corrosive effects of sea spray. "The junction of the tank bottom and the top of the concrete foundations shall be tightly sealed to prevent water from entering the base," according to NFPA 22-2013;12.2.1.2. Caulking around the base of the tank to the tank foundation can help prevent water under the tank and acts as a sealant on the foundation.

As the saying goes, a picture is worth a thousand words and in the case of inspection reports, pictures can say sometimes better than words just what is right or wrong with a tank. Water operators that do their own checkups and authorize mandatory inspections as well as sign off on having recommended tank maintenance performed are that much closer to providing the perfect picture of a water tank.

### Firewood and lawn chairs

*You know security is lacking when there's firewood and lawn chairs stacked against the base of the water storage tank.*



**Overgrown shrub** Overgrown greenery can lead to deterioration of the structural components of a tank.

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## Infrastructure *continued from Page 21*

### Brownfield clean-up

Restore Pennsylvania will provide funding to ensure the continuation of Pennsylvania's Brownfields program, ensuring that more sites can be returned to use for recreation, commercial, residential, or industrial sites.

### Contaminant remediation

Restore Pennsylvania will fund expanded efforts to remove lead and other contaminants from communities.

### Green infrastructure

Restore Pennsylvania will provide significant new funding to enable new environmental projects and new recreational opportunities across the state, including infrastructure and maintenance in state parks, creation of new local parks, and funding for new hiking, biking, and ATV trail projects.

### Transportation capital projects

Restore Pennsylvania will provide funding for local road upgrades, create new flexible funding options for businesses that need local infrastructure upgrades to enable development projects, and multimodal and large-scale capital projects for transit.

## Congratulations to Jesse LaVigne 2019 One AWWA Operator Scholarship winner

Jesse is a Water Plant Operator in training with the Downingtown Municipal Water Authority (DMWA) since July 2018 and his responsibilities include studying plant operation, executing control decisions under supervision of a certified water operator, testing and documenting water quality at necessary intervals and studying water filtration and purification.



Jesse  
LaVigne

## PA-AWWA needs volunteers for operator workshops

The PA-AWWA Operator Training Zone is a very important part of our Operator Continuing Education program and will be available on a quarterly basis so operators have a convenient opportunity to earn contact hours. In order to continue this viable program, we need to provide Pennsylvania's drinking water operators with high quality courses that provide PA DEP contact hours. This can only be done if we strengthen our volunteer and instructor base. We need your help! The Section will provide course content and administer the workshop. Our greatest need is for individuals to present the course content to the operators and the instructors will also receive PA DEP contact hours for their efforts.

**Topics of Instruction:** *Treatment, Distribution, Op Cert Exam preparation, Math and Hydraulics review, Security, Emergency Preparedness, Customer Service, Disinfection, Filtration, Optimizing Filter Performance, Pipeline Maintenance, Asset Management, Infrastructure Financing and Water Audit and Loss workshops.*

**Interested in volunteering?** Please contact Nancy Dinger at the Section office at 717-774-8870 or send an e-mail to [nancydinger@paawwa.org](mailto:nancydinger@paawwa.org)

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## PA-AWWA Water For People Committee Events

**April 16-18, 2019**

**PA-AWWA/DBIA Annual Conference**  
Silent Auction Benefitting Water For People  
Hershey Lodge, Hershey, PA

**Summer 2019**

**PA-AWWA Night at PNC Park**  
Benefitting Water For People

**September 2019**

**12th Annual Water For People Charity Golf Outing**

**September 8-11, 2019**

**PMAA Annual Conference**  
Silent Auction Benefitting Water For People  
Kalahari Resort, Pocono Manor, PA

**November 7, 2019**

**14th Annual PA-AWWA Water For People Gala**  
Hosted by Stone Hill Contracting Co., Inc.  
William Penn Inn, Gwynedd, PA

**Sponsorship Opportunities Available!**



For more information or to become a committee member, please contact  
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