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After 30 years of service to the Northern Gila County Sanitary District, Joel Goode has retired as the District Manager. The District Board of Director’s have chosen Mr. Garrett Goldman, P.E. to take over duties and responsibilities of the District leadership.

Mr. Goldman is a registered professional engineer and has worked with the District on many projects over the past 22 years. Mr. Goldman’s diverse education, training, and professional experience brings a welcome addition to the District. He has helped develop sewer collection system design and construction plans for repair, replacement and new construction of much of the District’s infrastructure. Garrett has been instrumental in the development of the District’s comprehensive Collection System Master Plan, a document which helps determine downstream impact and provides guidance to new development within the District service area. Garrett has lead the District’s effort to reduce infiltration and inflow by engaging in several flow studies conducted within the collection system.

Mr. Goldman comes to the District at a time when major plant upgrades have been recently completed. The capacity of the treatment facility has been increased to 3.5 MGD utilizing new and advanced technology which will allow the District to serve the community of Payson and surrounding areas well into the future. Additional information is available at www.ngcsd.org.

Severn Trent - North America Changes Name to Inframark
Move Reinforces Commitment to Leadership in Water and Infrastructure Services as an Independent American Company

Our new name is a strong statement of what we do. INFRAMARK is a direct reflection of our focus on the core operation of our nation’s water infrastructure, as well as the complementary critical support services to community infrastructure. It’s also a reminder of how we do it. It underscores our commitment to setting the “mark” and setting the standard that all others follow when it comes to providing the highest service quality and to the deep partnerships we have with our clients. We are more committed than ever to solving the challenges facing today’s municipalities, municipal service districts and industries.

We have been operating and maintaining 4 water and wastewater facilities in your state for over 30 years. As a member of your community we wanted to be sure we made you aware of our exciting news and should you have any questions, please feel free to email Jennifer Flipping at Jennifer.flipping@inframark.com.

Northern Gila County Sanitary District Announces Garrett Goldman, P.E. as new District Manager

Chris Anvik with McCarthy Building Companies
Appointed to Water Design-Build Council’s Advisory Board

Chris Anvik, project director with the Water Services team at McCarthy Building Companies Inc. (www.mccarthy.com), was recently appointed to the Water Design-Build Council’s advisory board.

Chartered in 2006, the Water Design-Build Council (WDBC) is a 501(c)(6) not-for-profit corporation, established as an educational industry advocate for the value of collaborative delivery methods for water and wastewater infrastructure projects; and to promote best practices in design-build and construction management at-risk (CMAR) procurement and implementation through education and outreach.

Anvik has 11 years of experience in construction with an emphasis on water and wastewater projects. “I’m looking forward to my role on this council, helping to increase WDBC’s stature in the water industry through thought leadership and research,” Anvik said. “WDBC’s goal is to advance the development and rehabilitation of our nation’s municipal water and wastewater systems through the use of the design-build and construction management at-risk methods of project delivery, which McCarthy has vast experience with.” He received his bachelor’s degree in Construction Engineering Technology from Montana State University. He is also a member of the AZ Water Association and Water Environment Federation.

Media contacts: Patty Johnson, pattyjohnson@connections-marcom.com, 602.402.2965 or Stephanie Jarnagan, Stephanie@thinkcommaz.com, 480.201.7572.
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Firefighters are amazing—they rush into burning buildings, attack hazardous material spills, battle forest fires, and respond to medical emergencies. Their courage and dedicated service to community deserves our acknowledgment and appreciation. However, there are other, quiet heroes behind the hydrant: public water utility professionals who make sure there is a safe, reliable water supply always at the ready. They ensure water is available in quantity, quality, and pressure necessary to meet the needs of residential, commercial, industrial, recreational, and, yes, emergency response demands.

The critical role that water providers play in ensuring public safety was highlighted in 2017 when the City of Tucson Fire Department became the first city department in Arizona to earn a Class 1 rating from the Insurance Services Office (ISO). The Class 1 rating is an achievement shared by only 0.5% of fire departments across the country. The ISO is an advisory organization for insurers providing risk assessments and is a leading source of information nationally about a wide range of insurance types. ISO’s Public Protection Classification ratings measure communities’ fire protection capabilities, and are used by most major insurers to calculate premiums for fire insurance. These ratings evaluate the quality of emergency communications, fire department operations, and the water system.

Nearly 40% of Tucson Fire’s Class 1 rating is based on the City of Tucson Water Department’s (Tucson Water) ability to provide water to emergency responders where, when, and how (amount and pressure) it’s needed. The ISO rating provides more than just recognition—it should help residents and businesses within Tucson city limits to achieve lower insurance costs.

“This truly emphasizes the importance of having a highly reliable water department and supply system to perform as expected during chaotic and lifesaving emergencies,” said Tucson Fire Chief Jim Critchley. “The Tucson Fire Department team depends on water to protect them from the intense heat of fires as well as to extinguish fires safely and efficiently.” Critchley added that the Tucson Fire Department and Tucson Water collaborate on hydrant placement, maintenance, inspection, security, and flow testing—also critical contributors to the City’s prestigious ISO Class 1 rating.

In all, Tucson Water serves more than 720,000 people, providing confidence that the system is ready to provide what firefighters need to protect lives and property. Around 100 million gallons are delivered each day to meet normal water demands, including for fire protection, and hydrant and well flushing.

Approximately 4,600 miles of potable pipe are maintained around the clock to meet customers’ needs. Hydrant maintenance and repair training is included in a skill-based pay program at Tucson Water to guarantee that the Utility Technicians are well equipped to keep the fire protection system operational. Tucson Water maintains more than 23,000 fire hydrants throughout its 390-square-mile service area, which extends beyond the city limits to areas where the city-operated utility is obligated to serve homes and businesses. About 70% of the utility’s water lines are contained within City of Tucson limits, which is where Tucson Fire generally provides emergency response. But Tucson Water also has service lines that extend where another dozen area fire agencies rely on support.

Tucson Water gives all the fire departments in its service area the same high level of service, and requires developers to install fire sprinkler systems that meet fire marshal approval. To keep hydrants ready for emergencies, Tucson Water has upgraded water mains to six-inch diameter or larger lines that provide the flow rate necessary to meet peak demands, including fire protection. Tucson Water hydrants typically deliver more than 1,000 gallons each minute and can sustain that flow level for up to two hours.

Most of the population served is connected to the main distribution system, which delivers renewable water supplies received from the Colorado River via the Central Arizona Canal. Additionally, there are nine smaller isolated systems owned and operated by Tucson Water that rely exclusively on groundwater wells. The largest isolated Tucson Water system serves around 7,000 people. According to water operators, fire hydrant use may be detected by a water level drop in these isolated reservoirs, but not in the main system. Communication between the Fire and Water Departments’ operators ensures that the water supply continues flowing in these smaller systems. Notification by Fire’s dispatch prepares Water’s Central Operators to take action. By remotely turning on pumps, in only a few moments thousands of gallons per minute will begin filling reservoirs and pipes to supplement fire suppression needs.

While this high capacity is critical in emergency situations,
Tucson Water must deftly balance the pressure in the lines to prevent damage to aging water infrastructure. Regular monitoring and adjustment provide special attention to customers with fire protection systems that would be damaged by above-normal pressure. The utility also keeps sprinkler systems pressurized in vacant buildings, regardless of whether or not there is a paying customer. This is done to protect both the firefighters who must respond to calls at these buildings and the lives and property of those nearby.

Tucson Fire Department’s water use is also relayed back to Tucson Water to maximize accuracy in water accounting. Tucson Water has implemented a hydrant locking program to control water loss in rural areas. Fire districts that serve areas beyond the city limits use a special wrench to access these hydrants.

The partnership between Tucson’s Water and Fire departments highlights the value of city government working together to ensure the safety of its residents. “Most people recognize the importance of water in the desert,” said Tucson Water Director Tim Thomure. “But most aren’t aware of the size and complexity of what’s involved in bringing water to our neighborhoods, homes, and businesses. The professionals at Tucson Water—from the engineers and operators who manage the distribution system to the field staff who maintain the pipes, pumps, and valves—truly are unsung heroes who run a 24-hour, 365-day system that helps keep our community safe.”
AZ Water Members $75, Nonmembers $150

Date, Time
March 21, 2018, 8:00 am to 3:30 pm

Location
Town of Gilbert
North Water Treatment Plant
2805 E. Guadalupe, Gilbert, AZ 85234

Contact
Erie Kaupanger, (602) 372-0964
ekaupanger@mail.maricopa.gov

Registration
Available beginning December 15th

Lunch
Provided

PDHs
Participants will receive 7 Professional Development Hours

COURSE DESCRIPTION
Morning classroom session on filter surveillance techniques followed by hands-on activities at a filter to demonstrate filter surveillance techniques. Attendees will be guided to self-perform tests that comprise a long-term filter surveillance program. Hands-on tests will include:

- Filter media sampling techniques
- Spent backwash turbidity analyses
- Media depth profiling for effective size and uniformity coefficient (off-site testing) and solids retention analyses

An important part of the field segment will be training on visual observations and what they may mean relative to the condition of the filter and its operational efficacy. Component condition assessment will be briefly reviewed. During the afternoon, data gathered during the hands-on exercises will be trended and discussed.
Water Treatment Committee Seminar Series

“Applied Operational Strategies in Groundwater Treatment”

Tuesday February 13, 2018
$68 per AZ Water Association Member*
$75 per non-Member*

GateWay Community College
Surprise-Gateway Training Center
13659 W. Cactus Road, Surprise, AZ 85379

* Attendees registering for both the Groundwater Seminar on February 13th and the Surface Water Seminar on February 14th receive a discounted rate. Lunch will be served for each of the two seminars and also during the field tours on February 15.

$100 per AZ Water Association Member
$120 per non-Member

Check in begins at 07:30 with drawings for prizes and wrap up at 02:45. Content focuses on issues and remedies for applied groundwater treatment from the operations perspective. Current challenges and groundwater treatment solutions will be presented. Content includes regulatory requirements, emerging technologies, improved operational strategies, inspections, instrumentation, responding to power outages, and proactive filter maintenance.

To register, go to azwater.org. Questions related to the groundwater treatment seminar can be directed to Jared Carr, PE of EPCOR Water Arizona, Inc. at (602) 540-7560.

“Trouble Shooting Surface Water Treatment Issues”

Wednesday February 14, 2018
$68 per AZ Water Association Member*
$75 per non-Member*

GateWay Community College
Center for Health Careers Education Auditorium
Room CH1106
108 N. 40th Street, Phoenix, AZ 85034

Check in begins at 07:30 with drawings for prizes and wrap up at 02:45. Content focuses on issues and remedies for applied surface water treatment from the operations perspective. Current challenges and surface water treatment solutions will be presented. Content includes regulatory requirements, inspections, instrumentation, record keeping, coagulation, solids handling, attracting and retaining operators, changing surface water conditions, DBP control, responding to power outages, and proactive filter maintenance.

To register, go to azwater.org. Questions related to the surface water treatment seminar can be directed to Richard Sacks, PE of City of Scottsdale at (480) 312-5673.

“Surface Water Treatment Facility Tour”
and
“Virtual Tour of Groundwater Treatment Facilities”

Thursday February 15, 2018
10:00 to 12:30
$10 registration per person

Scottsdale Water Campus
8787 Hualapai Drive
Scottsdale, AZ 85255

Check in begins at 10:00 at the Scottsdale Water Campus followed by a tour of the City of Scottsdale CAP Surface Water Treatment Plant. The second component of the tour will return to the conference room of the Scottsdale Water Campus for a virtual presentation of groundwater treatment facilities in Arizona featuring drone surveys provided by Hunter Contracting Co.

To register, go to azwater.org. Questions related to the day of tours can be directed to Blake Abts, PE of Carollo Engineers at (602) 474-4019.
With the country on high alert following the crisis in Flint, MI, Arizona initiated a Public School Drinking Water Lead Screening Program in January of 2017. The program was a proactive, statewide screening program to determine Lead levels in Drinking Water at our public schools. The program forged a partnership with multiple state agencies and Cities. Most of the participating cities are members of Tap into Quality (TIQ). Lead and copper enter Drinking Water primarily through plumbing materials on the customer’s side of their Water meter. Exposure to Lead and copper is known to cause health problems ranging from stomach distress to brain damage. As with many environmental factors, children are more susceptible to Lead poisoning. EPA established the Lead and Copper Rule (LCR) for Public Water Systems in 1991 to monitor Drinking Water at customer taps. If Lead concentrations exceed an Action Level of 15 ppb or copper concentrations exceed an Action Level of 1.3 ppm in more than 10% of customer taps sampled, the system must undertake a number of additional actions to control corrosion, known as treatment techniques. In addition to regulating the Public Water Systems, The Safe Drinking Water Act prohibits the “use of any pipe, any pipe or plumbing fitting or fixture, any solder, or any flux, after June 1986, in the installation or repair of:
(i) any public Water system; or
(ii) any plumbing in a residential or non-residential facility providing Water for human consumption, that is not Lead free.”

Because Lead most commonly enters Drinking Water after treatment, through leaching from older pipes and fixtures, regulation of Public Water Systems was not enough to ensure the safety of Arizona’s school children. As a result, the proactive program to evaluate the concentrations of Lead in Arizona schools was developed with the following partners.

State Agency Partners
Arizona School Facilities Board (SFB)
Arizona Department of Health Services (ADHS)
Arizona Department of Education (ADEO)
Arizona Department of Environmental Quality (ADEQ)

County and Municipal Partners
City of Glendale*
City of Peoria*
City of Phoenix*
City of Scottsdale*
City of Tempe*
City of Tucson

*TIQ Cities

ADEQ spearheaded the project. Developing and documenting processes, communicating with partners, and collecting data from buildings and fixtures at 1,400 schools statewide.

City partners participated by coordinating sampling kit delivery and pick up at the schools in their service areas. Other City partners actually collected the samples from each school in their areas. Many City partners analyzed samples, at no cost to the schools or State, in their ADHS certified municipal laboratories.

Initial results that came back over the 15 ppb screening level were confirmed with further sampling. Because extended periods of non-use is known to leach higher levels of Lead into Water, confirmation samples were run at several time intervals and varying volumes to help isolate the internal fixtures and pipes contributing to Lead leaching: 250 mL first flush, 250 mL following 1 minute flush, and 1 liter (L) 24 hours later. The results of all of this sampling and analysis were distributed to the schools, who then had to respond by performing some corrective actions, such as disabling faucets and/or replacing pipes and fixtures and communicating any corrective actions performed to school staff, students and parents, and ADEQ.

Arizona is one of the first states that has successfully completed a proactive, comprehensive and voluntary screening program for Lead in public school district Drinking Water and completed it within six months’ time. Report screening results represent:

- 16,125 total samples
- 14,782 fixtures
- 11,585 buildings
- 1,427 schools
- 180 public school districts

The report found that 96 percent of all public school district Water fixtures screened for Lead were within conservative screening levels. Through the sampling plan, ADEQ determined that small number of Lead samples above the screening levels can be attributed to on premise fixtures and piping. The School Facilities Board (SFB), in cooperation with ADEQ is actively working with public school districts to replace the problem fixtures, sample and verify that replacement solved the elevated Lead levels in Drinking Water. The data is presented in Arizona’s Public School Drinking Water Lead Screening Program report and can be found at http://static.azdeq.gov/dw/Lead_screening.pdf .

This partnership took coordinated effort through many different state agencies and cities. “As the SFB continues the program to evaluate the concentrations of Lead in Arizona schools, it is apparent that the state of Arizona has surveyed Lead concentrations in public school Drinking Water using a very conservative threshold on which to take corrective action. After reviewing this report, we see no evidence that public school Drinking Water serves as a significant contributor to Lead poisoning in Arizona’s children.”

By STEVEN CURRY, M.D., Professor of Medicine, University of Arizona College of Medicine – Phoenix
Chief, Department of Medical Toxicology, Banner University Medical Center Phoenix
AZWater Southern Arizona Technical Luncheon
Spring 2018

Time: 11:30 am to 1:00 pm
Location: Hotel Tucson City Center, 425 N. Granada, Tucson, Arizona
Cost: AZ Water Members: $20 per person
At the Door or Non-members: $25 per person
February and March Cost: $20.00 AZ Water Members and Non-Members

January 11th
Topic: Tucson Water’s Revised Standard Specifications
Presented by: Jeff Drumm, PE, Tucson Water Construction Manager
Sponsors: Pioneer Equipment, Smyth Industries, and KE&G

February 1st
Change of venue for February uncheon Only! Viscout Suites, 4855 E. Broadway Blvd., Tucson
Topic: Pure Water Brew Challenge Update
Presented by: Jeff Prevatt, Arizona Pure Brew Challenge
Sponsors: Carollo and The Dow Chemical Company
Special Joint Luncheon with ASCE!

March 1st
Topic: Permanent Canal Closures and Pump Project, New Orleans, Louisiana
Presented by: John Take, PE, P. Eng., ENV SP,
Stantec Consulting Services Inc.
Sponsors: Patterson Pumps and Stantec
Special Joint Luncheon with APWA-SAB, SAEMS, & ASCE!

April 5th
Topic: Application of Carbon FRP in Repair and Construction of Pipelines
Presented by: Mo Ehsani, QuakeWrap, Inc.
Sponsors: Dibble Engineering and QuakeWrap, Inc.

Scholarships are available for college/university students interested in attending an AZWater Technical Luncheon. Please contact us!

For more information:
Shawn-Noel Simmons | (520)545-7608 | shawn-noel.simmons@stantec.com
Carol Johnson | 520.724.6334 | carol.johnson@plma.gov

PDH Certificates are available for attendance at these meetings.
Please register online at AZWater website under “Featured Events” @ http://www.azwater.org

AZ Water Association
Professionals Dedicated To Arizona's Water
Happy 2018 everyone from WateReuse AZ!

Here is just a quick update on what is happening. In October 2017, the new WateReuse AZ board was set for the next two years. The 2017-2019 officers are: John Kmiec, President, Marana Water; Rob McCandless, Vice President, Brown & Caldwell; Erin Young, Secretary/Treasurer, Flagstaff Water; and Channah Rock, University of Arizona, Past President. The area trustees are: Jeff Biggs, Tucson Water, Southern AZ; Maria Brady, Stantec, Central AZ; and Corin Marron, Carollo, At-large.

Mark your calendars for the 2018 Arizona Reuse Conference. This conference is a joint event between WateReuse AZ and the AZ Water Association. WateReuse AZ is looking forward in working with our partners in the AZ Water Reuse Committee led by Andrea Odegard-Begay. Like in the past, it will be held in Flagstaff at the Little America Hotel on July 22-24, 2018. More details on agenda and logistics to be announced in March.

Lastly, on behalf of the board and the membership, I would like to thank Channah Rock on her presidency of the WateReuse AZ section (2015-2017). Channah was instrumental in leading the efforts on the DPR prohibition removal and updates to the recycled water guidelines, as well as being a co-chair of the wildly successful National WateReuse Symposium that was held in Phoenix in September 2017. Plus, no one will forget her tireless energy and leadership in the AZ Pure Water Brew Challenge. Thank you Channah!
2018 Board of Director Nominations

The Nomination Committee is accepting qualified and willing members to fill the position of Vice President, Secretary, and Director within the Board of Directors of the AZ Water Association for 2018. In the event the Vice President is selected from the current sitting Board of Directors, a second Director position will be open for consideration. Nominees will be listed in the spring 2018 Kachina News and voted on at the Annual Business meeting on May 3, 2018 during AZ Water’s 91st Annual Conference & Exhibition at the Phoenix Convention Center in Phoenix, Arizona.

Submittals should include nominee contact information and an explanation why this person should be considered for a leadership position within AZ Water. Please submit your nomination in writing by March 1, 2018 to the chair of the Nomination Committee:

Board Nomination Committee Chair
Chris Hill, 5th Past President
cwh2serv@msn.com

Vice President Duties
The Vice President serves within the structure of the AZ Water Association, Arizona Water Environment Association and Arizona Section of the American Water Works Association. This position oversees the activities of various committees during June 2018 - June 2019. The Vice President shall assist the President and President Elect and shall be the presiding officer of the Association in the absence of both the President and President Elect. The Vice President will have served as a Director, Secretary, or Treasurer of the AZ Water for at least one year and will have been a member of the AZ Water for at least one year and a member of both the AWWA and WEF at the time of elections. The term for the Vice President is one year (2018-2019). This person must be willing to commit to move through the officer chairs and serve as President Elect, President, and first Past President (three additional years).

Secretary Duties
In addition to Director duties, the Secretary prepares the agenda for all meetings of the Board of Directors, and records and distributes the proceedings of such meetings to the Board Members. This person maintains records of the Association, including a list of members and performs such other duties as may be assigned by the Board of Directors.

Director Duties
The Director serves within the structure of the AZ Water Association, Arizona Water Environment Association and Arizona Section of the American Water Works Association. Directors are expected to attend all AZ Water Board Meetings (ten per year) and other meetings as designated by the President. All Director positions oversee assigned AZ Water committees. Directors must be members in good standing of the WEF, AWWA, and AZ Water. Terms are for one year, with an understanding that a three-year commitment is involved. Each year’s term is subject to re-election. If you have the energy, drive, and commitment to serve AZ Water, please consider placing your name or the name of a colleague in nomination for a Board seat.
A LIFE THAT MATTERS

I recently picked up a book by Dr. John Maxwell about “Intentional Living”. Choose a Life that Matters. I want to share some of the key points from his book that I think we all can benefit from to have “Success and Fun” in our lives. The following will be direct quotes and excerpts from the book. I suggest you pick up a copy if you are interested.

“Do you want to make a difference? Are you doing something that makes a difference: with people who make a difference; at a time that makes a difference?”

It is been said that to be significant. All you have to do is make a difference with others wherever you are with whatever you have, day by day.

When you intentionally use your everyday life to bring about positive change in the lives of others, you begin to live a life that matters. If your story isn’t as meaningful or significant or compelling as you want it to be, you can change it. If you want to live a life that matters, don’t start when you get good; start now so you become as you want it to be, you can change it.

When you intentionally use your everyday life to bring about positive change in the lives of others, you begin to live a life that matters. If your story isn’t as meaningful or significant or compelling as you want it to be, you can change it. If you want to live a life that matters, don’t start when you get good; start now so you become good.

There are three questions you need to ask and answer to test your readiness to be a catalyst for significance.

2. Are you passionate about what you are doing? Do something you are passionate about.
3. Do you have the resources to change your world? We all have untapped resources, seek them out.

It is very important that you stop trying and start doing. Just trying does not communicate true commitment. Trying rarely achieves anything of significance. An attitude of doing is essential to move towards anything of significance. Remember that action is what converts human dreams into significance.

A person changes if they make a commitment to live a life of significance and:
- You will reaffirm your values.
- You will find your voice.
- You will develop character.
- You will then begin to experience inner fulfillment.

When we live our lives intentionally for others, we begin to see the world through the eyes of others, and that inspires us to do more than belong: we actually participate. We do more than care: we actually help. We go beyond being fair: we are kind. We go beyond dreaming: we actually work. Why? Because we want to make a difference.

It has been said that a butterfly cannot go back to being a caterpillar. When you start living a life of significance, you get a taste for making a difference and you won’t want to go back to your old way of living or thinking.

We all know that good intentions are not enough. Poet Samuel Johnson is credited with saying, “Hell is paved with good intentions.” I believe a key to significance is realized through intentional living. That would be a life that brings you daily satisfaction and continual rewards for merely working to make a difference small or large in the lives of others. Intentional living is the bridge that will lead you to a life that matters. Good intentions won’t get you there.

Ask yourself if you live in the land of good intentions or the land of intentional living?

Words of Good Intention
Desire, Wish, Someday, Fantasy, Hopefully, Passive, Occasional, Emotion

Words of Intentional Living
Action, Purpose, Today, Strategy, Definitely, Active, Continual, Discipline, I will, Success

A Life That Matters
Results, Fulfillment, Every day, Follow- through, Continually, Proactive, Habitual, Lifestyle, I do, Significance

It is been said that if you’re going to grow, you have to be intentional. Do you have a detailed plan for growth? Dr. Maxwell’s book provides seven benefits of intentional living:

1. Intentional living prompts us to ask, what is significant in my life?
2. Intentional living motivates us to take immediate action in areas of significance. And intentional life embraces only the things that will add to the mission of significance.
3. Intentional living challenges us to find creative ways to achieve significance. When you know what you want and can’t find what you need, you must create what you need, so you can get what you want!
4. Intentional living energizes us to give our best effort to do significant acts. Most people don’t aim too high and miss, they aim too low and hit.
5. Intentional living unleashes the power of significance within us.
6. Intentional living inspires us to make every day count.
7. Intentional living encourages us to finish well. Remember that nobody finishes well by accident.

Significance is not out of reach. You can be significant, but only if you begin living intentionally by:
- Wanting to make a difference
- Doing something that makes a difference
- Doing something with people who want to make a difference
- Doing something at a time when it makes a difference

It’s important that you start small but believe big. If you are not willing to start small, you may have a pride or ego issue.

Have you ever found yourself thinking or saying? “I will be able to make a difference only when....”
- I come up with a really big idea,
- I get to a certain age,
- I make enough money,
- I reach a certain milestone in my career,
- I am famous, or
- I retire.
None of these things is necessary before you can start to achieve significance. Every big thing that ever got done started with a first step.

START
1. Start where you are
2. Start with your ONE THING in life
3. Start watching your words
   - Thoughts lead to words
   - Words lead to action
   - Action leads to habits
   - Habits lead to results and significance
4. Start by making small changes
   - Believe in yourself
   - Believe in your mission
   - Believe in the people you associate with
   - Believe in God

So what do you believe? What is your ONE THING? You need to search until you find your WHY in life.

- If your why comes before the way, your ability to make a difference will come more quickly and immediately be more effective. Rick Warren said, “Humans are made to have meaning. Without purpose, life is meaningless. A meaningless life is a life without hope or significance.” If you are unhappy and lack meaning, you may be focused too much on yourself and seeking too much pleasure and entertainment:
  - Knowing your WHY allows you to focus more on others, and less on yourself
  - Living out your WHY gives you a confidence that is attractive to others
  - The more you live for your why, the more you live your WHY
  - The more you layer on your WHY, the more impact it has on others
  - Knowing your WHY keeps you in the game longer

Everyone has a WHY:
- Everyone was created to do his or her part to better mankind. That includes you!
- Everyone has talents that will help him or her better mankind. That includes you!
- Everyone is given an opportunity to better mankind. That includes you!
- Everyone has a purpose for which he or she was created. That includes you!
- Everyone must look within to discover his or her purpose. That includes you!

“The purpose of life is not to be happy. It is to be useful, to be honorable, to be compassionate, and to make some difference that you have lived and lived well.” Ralph Waldo Emerson

Each of us can apply these principles to our daily lives. You will be amazed as you apply these thoughts and principles at work and at home. Please share them with others and see what happens!

I am honored to share my perspective on “SUCCESS and FUN”. I hope to hear from you, contact me at phendricks@cox.net if I can be of assistance to you.
The AZ WATER Wastewater Collections Committee is offering an educational workshop designed to assist collection system operators with career and skill enhancement utilizing new technologies.

Thursday, March 8, 2018
Tucson, AZ
8:00am—3:30pm

Workshop Sponsors:

WORKSHOP TOPICS INCLUDE:

- Manhole Rehabilitation
- Confined Space Entry (Not a Certification Class)
- Cleaning Nozzle Technologies and Demonstrations
- Odor Control Monitoring/Testing and Supplies
- Collection System Root Control

PDH’S AVAILABLE

$75 Members ($95 Non-members):
i includes:
continental breakfast,
lunch and refreshments.

Location:
3355 N. Dodge Blvd.
Tucson, AZ 85716

Register by March 5, 2018
Online at www.azwater.org
or contact:
Mark Poppe / Adam Bliven
Committee Chairs
WastewaterCollection@AZWater.org
On Nov. 14, 2017 the Water Environment Federation and the National Association of Clean Water Agencies filed an amicus brief in support of a District of Columbia law to regulate disposable wipes. This law, the Nonwoven Disposable Products Act of 2016, aims to protect the sewer systems from backups by defining the term flushable for any disposable wipes sold within Washington, D.C., and requires manufacturers of non-compliant products to “clearly and conspicuously label” them as products that “should not be flushed.”

The Law

This law is the first successful attempt by any jurisdiction to enact legislation to define flushable officially for labeling, the brief states. The law provides that a “nonwoven disposable product” that is offered “for sale in the District” can be labeled as “flushable” only if it: *(A) Disperses in a short period of time after flushing in the low-force conditions of a sewer system; (B) Is not buoyant; and (C) Does not contain plastic or any other material that does not readily degrade in a range of natural environments.”

The D.C. Council passed the law unanimously in December 2016. As introduced, the bill prohibited the advertisement, packaging, or labeling of any nonwoven disposable product as flushable, sewer safe, or septic safe unless the claim is substantiated by competent and reliable scientific evidence. The bill authorizes the District Department of Energy and Environment to impose civil fines and penalties to sanction non-compliance with its provisions. The law requires the labeling rule to take effect Jan. 1, 2018, a deadline that the district is unlikely to meet.

The Call to Action

Since Washington, D.C. is a federal city, Congress has granted the city home rule authority to make and implement its own laws. But, the U.S. Congress also has retained jurisdiction over policies and budget matters; on occasion Congress has revoked district laws. In July 2017, some members of Congress suggested that they would take full advantage of this policy, by introducing a rider to the DC Appropriations Bill that would prevent the district from moving forward with the wipes legislation.

In response, WEF sent a letter of support to D.C.’s non-voting member of Congress Rep. Eleanor Holmes Norton and members of both the House and Senate Appropriations Committees to protect the district’s new law. Additionally, WEF issued a “Call to Action” to the WEF membership urging them to contact their senators and representatives to oppose the rider. The WEF Water Advocates program had a resounding response with 232 letters sent in just one week.

The Lawsuit

The Kimberly-Clark Corp. has sued the district to stop enforcement of the law. The plaintiff’s case states that requiring manufacturers to adhere to the definition set forth in the new law “restrains commercial speech and compels speech by private actors,” which would violate the First Amendment. The manufacturer’s claim further says that the law violates the Commerce Clause because it invalidly seeks to regulate the conduct of manufacturers in other states by imposing civil sanctions on conduct that is entirely lawful in other states.
Drinking Water Loans

Elfrida Water Improvement District | $85,000

The Elfrida Water Improvement District serves approximately 220 residential and four commercial customers in Elfrida, a small unincorporated community located in Cochise County. Production of the Jefferson Road well has been declining, and the well is quickly being depleted of water due to the on-going drought. With the WIFA loan, the District will deepen the well, increasing the water system’s reliability and averting disruption in service.

Walden Meadows Community Co-op | $40,000

WIFA closed a $40,000 loan with Walden Meadows Community Co-op to repair a well. In addition to supplying water to residents in Wilhoit served by the Co-op, the Co-op also supplies water to Thunderbird Meadows, a separate water system owned by Acme Water. In total, the Co-op serves water to approximately 400 customers south of Prescott in Yavapai County. On June 9, 2017, the system’s primary well stopped working. Without this well, the Co-op was unable to provide water not only to the Walden Meadows customers but also the customers of Thunderbird Meadows. The proceeds of the loan will be used to pay for the emergency work performed to get the well repaired so that service could be restored.

Pine Creek Canyon Domestic Water Improvement District | $250,000

Pine Creek Canyon Domestic Water Improvement District provides water service to nearly one hundred customers in the Portal IV subdivision in Pine, Arizona. Homes in the lower elevations of the subdivision experience high water pressure because of the 300-foot elevation difference from the system’s well to the lower end of the subdivision. This high pressure in the water lines has also caused multiple major water losses in recent years. Utilizing the funding provided by WIFA, the District will replace failing Pressure Reducing Valves (PRVs) and their underground vaults so the new PRVs can be properly inspected and maintained. They will also replace isolation valves in the system so that repairs can be made without shutting off water to the entire system, preventing disruption in service.

For more information, please visit WIFA’s Media Releases webpage at http://www.azwifa.gov/media-releases/.

WIFA awarded $313,000 in technical assistance funding to communities to complete the planning and design phase of an infrastructure project. Ten awards were announced, half of which will fund “green” approaches to managing our state’s drinking water, stormwater and wastewater.

<table>
<thead>
<tr>
<th>Applicant</th>
<th>Wastewater Project</th>
<th>Award Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>City of Scottsdale</td>
<td>*Alternative Stormwater Management Guidance Handbook for Low-Impact Development (LID) and Green Infrastructure</td>
<td>$35,000</td>
</tr>
<tr>
<td>City of Avondale</td>
<td>*Low Impact Development Planning</td>
<td>$35,000</td>
</tr>
<tr>
<td>City of Tombstone</td>
<td>WWTP City of Tombstone Loop Project</td>
<td>$35,000</td>
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**Total $105,000**

<table>
<thead>
<tr>
<th>Applicant</th>
<th>Drinking Water Project</th>
<th>Award Amount</th>
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</thead>
<tbody>
<tr>
<td>Pine Strawberry Water Improvement District</td>
<td>*PSWID CIP Program FY18 thru FY22</td>
<td>$35,000</td>
</tr>
<tr>
<td>Highland Pines DWID</td>
<td>*Replacement of Existing 6” Transite Water Supply Line</td>
<td>$34,998</td>
</tr>
<tr>
<td>Chaparral Water Properties, Inc.</td>
<td>Chaparral Water Properties System Improvements</td>
<td>$34,800</td>
</tr>
<tr>
<td>Cibola Mutual Water Company</td>
<td>DBP – THM Reduction Study</td>
<td>$22,170</td>
</tr>
<tr>
<td>Lake Havasu City</td>
<td>*Water Softening and Charcoal Filtration Water Treatment Additions Feasibility Study</td>
<td>$35,000</td>
</tr>
<tr>
<td>Avra Water Co-op, Inc.</td>
<td>Water Main Line Looping Project</td>
<td>$11,040</td>
</tr>
<tr>
<td>Graham County Utilities, Inc.</td>
<td>FT Thomas Water System PER/ER</td>
<td>$35,000</td>
</tr>
</tbody>
</table>

**Total $208,008**

*green project
A report recently released by the Water Infrastructure Finance Authority of Arizona (WIFA) and the Environmental Finance Center at the University of North Carolina at Chapel Hill (EFC) examines current statewide water rates and financial trends. Water pricing is a hot and important topic in Arizona. The 2017 Arizona Water and Wastewater Rates Report details the results of a survey of drinking water and wastewater (sewer) rates and rate structures conducted by WIFA and the EFC. Rates and rate structures were analyzed for utilities throughout the state so anyone can compare water and wastewater rates, learn how much utilities are charging, and begin to understand the complexity of water pricing.

For many years, WIFA has conducted this residential rates survey with two objectives - to provide data and information to assist utilities with their pricing efforts, and to help WIFA, and other financing agencies, assess rates and rate trends statewide. The report was expanded in 2015 to not only include commercial drinking water and wastewater data, but also reclaimed water, and, new this year, stormwater rates. This year’s report includes data from 91% of Arizona’s water/wastewater utilities that charge rates.

Highlights from the Report:

**Water Pricing in Arizona**

The survey data showed an increase of the average water and wastewater rates. For WIFA’s benchmark of water usage at 7,500 gallons per month, the average bill in 2015 was $43.69. In 2017, the average bill is $46.09, a $2.40 or approximately 6% increase over a two-year period. For wastewater (5,000 gallons/month), the average bill increased by $1.15 or 4%.

The report shows that the price for water across the state of Arizona is relatively low compared to other parts of the country and compared to the price for other less essential consumer goods. At around half a cent per gallon from the tap, it is astoundingly cheaper than, say, a gallon of gas, yet is vastly more important. However, there are still places across the state where the price of water and wastewater service poses a significant financial burden for lower income customers.

**Outdated Rate Structures**

Pressure to maintain low rates has many utilities running at a deficit and/or deferring necessary operational and capital improvements. Out of 421 rate structures with a known effective date, 46% have not updated their rates in the last five years, and 20% have not updated rates in the last 15 years. Appropriate water rates are essential to support the infrastructure we need to transport, treat and distribute water to ensure safe drinking water and proper wastewater treatment. Utilities must consider all aspects of pricing to determine if their rates are set to truly reflect their costs.

**Reclaimed Water**

Arizona is one of a few states that makes extensive use of treated wastewater, commonly referred to as reclaimed water. In this survey there were 51 utilities that supply reclaimed water for use in a wide variety of agricultural, landscaping, and commercial applications. Overall, reclaimed water costs are considerably lower, with the median bill coming in at approximately one quarter of potable water costs.

The State, through the Arizona Department of Environmental Quality (ADEQ), is working to take water reuse innovation further. A new rule allowing permits for an “Advanced Reclaimed Water Treatment Facility” where highly treated wastewater would be purified to drinking water standards is expected to become effective January 2018.

**Stormwater**

New this year, the report includes research on stormwater management programs in Arizona, and how these programs are funded. Stormwater runoff is generated when rain and snowmelt flows over land and does not soak into the ground. Unlike the water from sinks and toilets, stormwater flows untreated into surrounding washes, rivers and lakes. Managing stormwater improves water quality, reduces flooding, reduces infrastructure costs and increases property values.

To conduct this survey, researchers at the EFC analyzed municipalities’ Stormwater Management Programs and ordinances. Funding sources were determined for 27 of the 57 municipal separate storm sewer systems in the state. Eleven communities collect some type of fee towards stormwater programs. The four systems with stormwater-specific fees (Scottsdale, Surprise, Oro Valley, Flagstaff) charge between $1 and $3 per household monthly. These fees appear on utility bills, or are billed separately by the municipality.

**Conservation Pricing Signals**

Many different types of pricing structures can be adopted to encourage conservation and to provide customers with a financial incentive to conserve water or invest in water efficiency. One mechanism utilities use to send a strong pricing signal to encourage water conservation is the rate that customers pay at higher levels of consumption. Surprisingly, the report analysis shows that some utilities with simpler rate structures (such as uniform rates) send customers stronger conservation price signals than other utilities with increasing block structures.

Water conservation measures in Tucson, Arizona have resulted in rates that were 11.2% lower in 2017 than they would have been without 30 years of conservation. Additionally, as of 2017, customers in Gilbert pay rates and top fees that are 5.8% and 45% lower, respectively, than they would have been without 20 years of conservation. Not only do utilities benefit from conservation measures, but customers benefit as well.

To supplement and enhance the report, WIFA and the EFC produced comprehensive water and wastewater rate tables, rate sheets of individual utilities, and an interactive, online Rates Dashboard. The dashboard is a user-friendly tool that allows users to compare residential rates among groups of utilities and analyze the affordability of services and the financial sustainability of Arizona’s utilities.

Together, these resources help answer some pressing questions: How affordable are water and wastewater services? Are water utilities’ pricing signals helping to encourage conservation? Do utilities in Arizona have the means to maintain vital infrastructure?

For more information or to access these resources, please visit WIFA’s website at www.azwifa.gov or the EFC’s website at www.efc.sog.unc.edu.

WIFA is a state agency dedicated to protecting public health and promoting environmental quality through funding and...
Below is a summary of the projects that have been completed during the quarter, both loans and technical assistance projects. We hope you will enjoy reading about the successes and results of the funding that WIFA is providing to Arizona’s communities.

Q3 Summary:

8 projects completed (6 loans, 3 technical assistance projects)

- $3,693,609
  - $3,591,183 in loans
  - $102,426 in technical assistance funding
- 4 drinking water projects and 4 clean water projects (all completed by small/rural communities (less than 10,000)

Completed Loans

Town of Springerville
Population: 2,213
Sewer System Rehabilitation - Line Replacement and East Lift Station and Monitor System

Loan Amount: $693,965
Project Results: The Town utilized this funding to address issues with its aging sewer system, including replacing a lift station, replacing collection lines and manholes, and repairing two backup generators. The Town videoed and cleaned all sewer lines and manholes, improving the overall functioning and cost-effectiveness of the sewer system. By videoing the lines, the Town was able to take an inventory of the condition of the lines and assign asset tags with useful life in order to update its capital improvement plan. According to the Town’s Public Works Director, Tim Rasmussen, customer sewer problem complaints have dropped 85 percent. This project won WIFA’s Clean Water Project of the Year Award in 2016.

Town of Springerville
Population: 2,213
Water System Improvements

Loan Amount: $1,107,218
Project Results: The Town addressed problems associated with its aging water system by rehabilitating two water storage tanks, demolishing and removing a third water storage tank, constructing...
a new production well, purchasing and installing a backup generator, replacing 1,800’ of water line and additional replacement or repairs throughout the distribution system, and installing a SCADA system for remote monitoring of the entire distribution system.

Lake Verde Water Company
Population: 125
Arsenic Treatment and Storage Tank Repair
Loan Amount: $150,000
Project Results: Lake Verde Water Company’s upper well had an arsenic level of 26 ppb which exceeded the maximum contaminant level (MCL). The Arizona Department of Environment Quality (ADEQ) and the Company entered into a Consent Order in May 2010, and in July 2010, ADEQ issued the Company a Notice of Violation for failing to provide the required minimum storage capacity. Lake Verde used the WIFA loan to install a centralized arsenic treatment system and three 10,000-gallon storage tanks to resolve these compliance issues.

Completed Technical Assistance Projects

Cordes Lakes Water Co.
Population: 2,900
Water Loss Analysis and Leak Detection Survey
TA Amount: $35,000
Project Results: The Company has experienced a water loss of 25.5 percent and must reduce its water losses to less than 10% annually. The Water Loss Analysis and Leak Detection Survey identified numerous improvements to improve water loss. Based on the final Water Loss Control Plan, the Company will implement several storage and supply improvements through a current WIFA loan and a pending rate increase to fund additional recommended water loss control improvements.

Rancho Del Conejo Community Water Co-op, Inc.
Population: 900
Water System Mapping & PER Water Master Plan
TA Amount: $34,500
Project Results: The Co-op is in need of a water master plan to identify potential water projects and update maps in order to apply for funding. The Master Plan recommended removing and reconstructing existing water distribution lines impacted by erosion and repairs to Well #2 to reconstruct the well head piping and to maintain the proper sanitary seal. The report estimates the total project cost to be approximately $913,200.

Town of Wellton
Population: 2,882
Feasibility Study
TA Amount: $32,926
Project Results: The Town of Wellton needs to install a collection system and treat flows from most of their residents who do not have a wastewater collection system or centralized treatment. Currently, most of the residential and commercial units utilize conventional septic systems to provide for their wastewater treatment and disposal needs. Some of the older septic systems are beginning to fail. A Feasibility Study was needed to determine viable options for collection and treatment. The Town is seeking assistance with funding to create a Preliminary Engineering Report. The Town has submitted a pre-application for project funding to the USDA-Rural Development.

Town of Chino Valley
Population: 4,722
Center Street Sewer from Highway 89 to Molly Rae and Refinance –
The Leadership Committee is pleased to continue a new feature to the Kachina News. With each issue, we will highlight a member of the Association who is moving up, moving on, or moving out along with another member who is going, or has the potential, to be shaking things up in ways big or small. Highlighted in this issue are two members who have been involved in the Association for many years. Our members of this exclusive club this quarter are Jim Doyle from Pima County Regional Wastewater Reclamation Department who has been involved with the Association for many years, and Asia Philbin from the Town of Marana who is the Association’s current Treasurer.

ASIA PHILBIN

Asia Philbin is the Resources Coordinator for the Town of Marana Water Department, a municipal water and wastewater provider serving approximately 15,000 people. Prior to starting the position with Marana in 2014, she worked as a hydrologist for Tucson Water, where she assisted in the planning, analysis, and tracking of Tucson Water’s water resources and energy portfolios. She holds a Bachelor of Science degree from the University of Miami in Marine Science and Geology, with a Biology minor.

Leadership Committee (LC): Where are you from originally and, if not from Arizona, how did you end up in Arizona?

Asia Philbin (AP): I grew up in Scranton, Pennsylvania and came to Arizona for graduate study in Hydrology and Water Resources at the University of Arizona.

LC: How long have you been a member of AZ Water?

AP: Since the turn of the century. The 21st, so we weren’t using slide rules, but we weren’t quite using smart phones either.

LC: Why did you join AZ Water?

AP: Some members of the Arizona Water For People committee had presented to a class at the university, and I joined AZ Water (then AWPCA) to participate in the Water For People committee. I attended the annual conference one year on committee business and was so impressed by the caliber of presentations and the number of dedicated professionals I met that I got hooked on AZ Water.

LC: What roles have you served in during your membership in AZ Water? What committees are you on?

AP: I served as chair/ co-chair of the Water For People committee for a few years. I also managed an EPA Border 2012 grant awarded to the association for a project in Sonoyta, Sonora. Early in my career, I was also participating in the Water Resources committee. For the past 4+ years, as board treasurer, I chair the Budget and Finance committee and am liaison to the Scholarship committee.

LC: What is the best/greatest thing about being an AZ Water member?

AP: AZ Water membership provides an avenue to share experience, learn from others, and accomplish things for our industry and communities that we can’t accomplish as individuals, nor strictly in the scope of our paid positions. The organization also provides opportunity for personal and professional growth. For me, as budget committee chair and treasurer, I get to coordinate on some level with all of our amazing committees, and see how all these efforts come together to strengthen and support both the organization and our industry.

LC: Was there someone within AZ Water who helped mentor and guide you in your career? What was the best advice or wisdom they gave to you?

AP: I’ve thought about this, and can’t fix on just one person, though for me, the best advice has generally boiled down to “just do it”. Jim Pembroke was the board liaison who encouraged me to lead the Water For People committee. I don’t remember his exact words, but it was direct, as you’d imagine if you know Jim, and of course it worked. Marie Peartree was a tremendous support for my involvement...
Jim is an Arizona native from Tucson. He began working for Pima County Department of Sanitation on June 6, 1977, during the initial construction of the 25 M.G.D. Ina Road Water Pollution Control Facility (IRWPCF). He started out as a temporary laborer during the facility construction. Forty plus years later, he is still with Pima County (Regional Wastewater Reclamation Department), at the IRWPCF, now called the Tres Rios Wastewater Reclamation Facility. His job title is Treatment Plant Manager. Jim’s career has consisted of operating, maintaining, and expanding Pima County Wastewater Treatment Facilities.

Leadership Committee (LC): Where are you from originally and, if not from Arizona, how did you end up in Arizona?
Jim Doyle (JD): I was born and raised in Tucson, Arizona. I have lived here all of my life. I graduated from Canyon Del Oro (CDO) High School.

LC: How long have you been a member of AZ Water?
JD: I do not really know how long I have been an AZ Water member. I was a member for many years, though there was a period of time that I was not a member. I am not sure when that was.

LC: Why did you join AZ Water?
JD: I initially joined AZ Water to get more involved with water and wastewater activities in Arizona.

LC: What roles have you served during your membership in AZ Water? What committees are you on?
JD: I was one of the “Board of Directors” many years ago from 1989-1994.

LC: What is the best/greatest thing about being an AZ Water member?
JD: I believe that the best part of being an AZ Water member is the networking and collaboration.

LC: Was there someone within AZ Water who helped mentor and guide you in your career? What was the best advice or wisdom they gave to you?
JD: Joseph Clawson was the individual that inspired and mentored me. Joe Clawson was one of AZ Water’s presidents. The best advice that Joe gave me was to be “dependable and always do the best that you are capable of doing.”
Pedal With Purpose
2017

The AZ Water Association | Water For People Committee would like to thank all of our sponsors, and attendees for their support for this years Race
AN AMERICAN TAKING A FIVE-MINUTE SHOWER USES MORE WATER THAN THE AVERAGE PERSON IN A DEVELOPING COUNTRY SLUM USES FOR AN ENTIRE DAY.

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2017 AZ Water Night Golf Scramble

Thank You!

The AZ Water Association - Scholarship Committee would like to thank all of our sponsors and participants for their support!

You helped raise over $1,400 to support future water professionals. THANK YOU!

Vicki Scott

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EIGHT WEF YOUNG PROFESSIONALS EXPLORE GLOBAL ISSUES

By Fidan Karimova, Water Technology Collaboration Manager, Water Environment & Reuse Foundation, Alexandria, VA

This year, an inaugural event, called UNLEASH (www.unleash.org), brought together more than 1000 talents from around the world to tackle the United Nation’s Sustainable Development Goals. The Water Environment Federation (WEF; Alexandria, Va.) sponsored eight young water professionals to attend the in Denmark to represent the North American water sector.

After several days of a facilitated innovation process, conceiving solutions, and testing them with leading experts and companies, one the WEF-sponsored professionals, Fidan Karimova, was selected to receive the Most Visionary award. Ashton Kutcher presented this award in front of thousands of attendees, which included the Princess of Denmark.

The Sustainable Development Goals
The Sustainable Development Goals (SDGs) originated in 2016 to continue the work of the United Nation’s Millennium Development Goals MDGs that originated in 2000 with 189 countries signing on to seek their achievement by 2015. Between the two lists, the number of goals increased from eight to seventeen, adding areas that were not previously covered. The SDGs is the largest global partnership agreement and development plan for the planet ever made, according to the UNLEASH website. SDG 6 seek to “ensure availability and sustainable management of water and sanitation for all.”

WEF’s role and contributions
Although North American countries are not automatically associated with vulnerable water sources, the Flint, Mich., water crisis in the U.S. and radioactive particles in northwestern Ontario in Canada prove that no region is immune to water issues. The Water Environment Foundation (WEF) was established exactly for this reason — to protect public health and the environment through increasing the awareness of the affect and value of water. WEF supports young professionals in the water industry and encourages them to take on more proactive roles in the industry.

Once in Denmark, the eight WEF-sponsored participants mixed with the other 1000 participants and were placed in groups with people from throughout the world. For example, Karimova’s team consisted of four men from Mexico, Denmark, Canada, Brazil. They named their team OTWOH, which is a play on words — H2O reversed into O2H/OTWOH. It stands for Ocean Plastics to Heat.

This team, led by Karimova, proposed an alternate source of energy at water resource recovery facilities. The proposal calls for harvesting pollutant plastics from the ocean and using them as a fuel source via the process of gasification. The idea originated generated with Karimova’s organization, Global Water Girls (www.globalwatergirls.com), and the UNLEASH UNLEASH group developed it further.

The group is continuing to work on the project after the UNLEASH event and hopes the solution will eventually help disrupt the waste and energy industries.

Why seek the SDGs?
Water and sanitation are key to thriving communities in promoting the growth of future healthy generations and access to a cleaner environment. This goal gains even more importance when taking into consideration that 1.8 billion people globally use a source of drinking water that is fecally contaminated and 2.4 billion people lack access to basic sanitation services, such as toilets or latrines, according to the UN. However, since 1990, 2.6 billion people have gained access to improved drinking water sources; so progress has been made and needs to continue.

To quote Leonardo Da Vinci, “water is the driver of nature.” Once we learn to better take care of our water systems, we will be able to meet many of the other SDG goals. The UNLEASH event helped highlight, once again, that SDG6 is at the core of all the other issues. If addressed, it could help simultaneously meet many other SDGs.
the two foundations together creates a stronger, broader, more interconnected research agenda that offers greater value and services to all subscribers. We are stronger as one organization.”

So, beginning on January 1, 2018, the new organization will be led by a single Board of Directors comprised of the directors from the two original organizations with Co-Chairs Chuck Murray and Kevin Shafer and Co-CEOs Melissa Meeker and Rob Renner. The new organization is called “The Water Research Foundation” and now has approximately 1,200 subscribers, 2,300 research studies, and a $700M research portfolio.

With continued support of the water industry, the new organization expects to provide a unified source for One Water research and to strengthen existing relationships with its water sector partners, government and regulatory agencies, and Congress. “It will serve as a leader and model for collaboration across the water industry.”

AWWA and Wiley Confirm New Publishing Partnership

In November AWWA announced a new partnership with Wiley, aimed at increasing access and reach of AWWA’s many publications. Beginning in January 2018, Wiley will take responsibility for the production and distribution of JAWWA and Opflow. In the second quarter of 2018, the online versions of both publications are scheduled to move to Wiley’s online periodicals platform, Wiley Online Library.

In its press release, AWWA says that Wiley Online Library’s capabilities and functionality will enhance the reader experience by providing access to full back-file content, full-text search and inclusion in collections. As a benefit of membership, AWWA members will continue to have full online access to both publications by logging in through AWWA’s website, www.awwa.org.

In case you didn’t know, AWWA’s monthly trade journal, JAWWA serves as a forum for thought leaders, offering peer-reviewed research and technical articles as well as articles featuring best management practices, industry news and the most current information on regulations affecting the water industry worldwide. And Opflow, AWWA’s monthly magazine, presents new and established technologies and ideas that readers can apply to water treatment and distribution, as well as wastewater operations.

So, that’s about it for 2017 – except to wish all my AZ Water friends a healthy, happy and prosperous 2018. Happy New Year!
THANK YOU!
TO ALL OF OUR SPONSORS FOR PARTICIPATING IN THE ANNUAL PCL CONSTRUCTION GOLF TOURNAMENT TO RAISE FUNDS FOR THE UNITED WAY.

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