



American Water Works Association  
Pacific Northwest Section

SUMMER 2019

# WATERmatters

The Official Magazine of the  
Pacific Northwest Section – AWWA



## 2019 PNWS-AWWA ANNUAL CONFERENCE *Recap*

- Frustrated by EPA,  
States Blaze Ahead on PFAS
- Subsection Updates
- Committee Reports

PNWS-AWWA  
P.O. Box 872467  
Vancouver, WA 98687  
Address Service Requested

Message From Your New Chair • PNWS Association Director Report



# Challenged with Water System Ownership?

**Are you...**

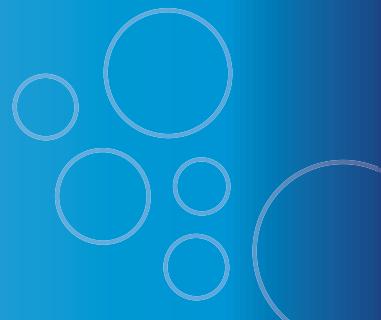
- **Facing challenges** to finance and make capital improvements?
- **Struggling** with new and more stringent regulations?
- **Experiencing difficulty** finding and retaining certified employees or contract operators?

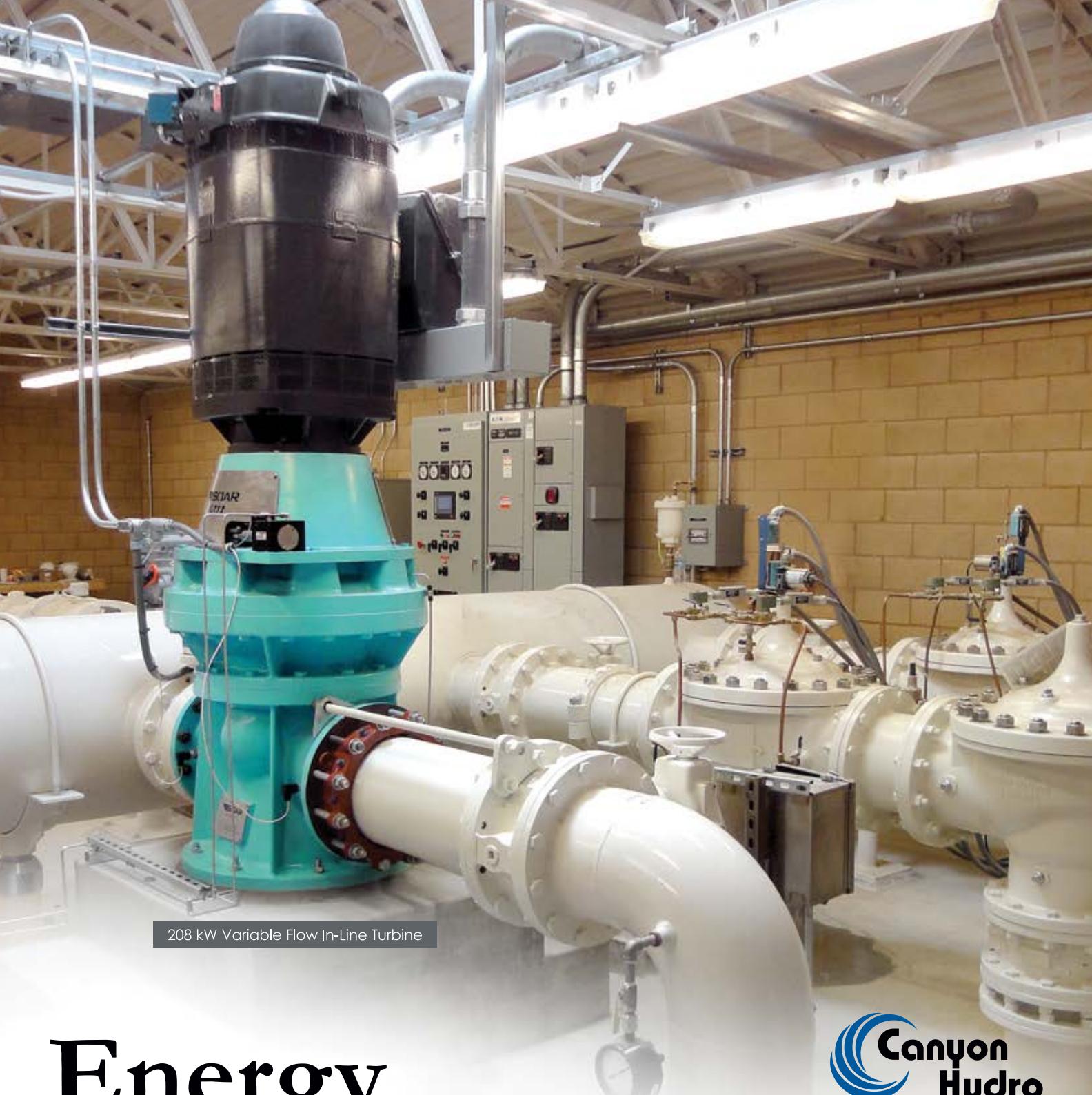
**Many owners have found the best option for them —  
and their customers — was to sell their water system.  
If this is something you're considering, let's talk!**

Contact Paul Risso at (253) 888-6280  
or [prisso@wawater.com](mailto:prisso@wawater.com)



Quality. Service. Value.®





208 kW Variable Flow In-Line Turbine

# Energy Recovery Hydropower



Energy recovery turbines generate renewable power in any drinking, irrigation or waste water systems at PRV pressure drop locations



**Software that works for *you*.**

- Lift your IT burden with data that works for you
- Enjoy peace of mind with encrypted security as well as automatic upgrades and maintenance
- Achieve interoperability with actionable data across all utility departments



Innovation to win your day in  
**IT Resources**

Put information into action for your water network.



Tailor intuitive, user-friendly software for your utility's business needs with the Neptune® 360™ cloud-based management platform delivered as a service.

[neptunetg.com/neptune360](http://neptunetg.com/neptune360)



#winyourday

The Official Magazine of the  
Pacific Northwest Section – AWWA  
**VOLUME 16, NUMBER 2**  
**SUMMER 2019**

American Water Works Association  
**Pacific Northwest Section**

# **WATER**matters

## **PNWS-AWWA 2018-2019 BOARD OF DIRECTORS**

Association Director  
**RANDY BLACK**

Chair  
**JAMES DEAN**

Chair-Elect  
**RONDA FARMER**

Past Chair  
**MEL DAMEWOOD**

Washington Trustee  
**DAVE ENGLAND**  
**DAN SLEETH**

Oregon/Idaho Trustee  
**MICHELLE CHEEK**  
**SUZANNE DELORENZO**

Trustee at Large  
**CRYSTAL JENSEN**  
**ALEX MOFIDI**

Treasurer  
**BOB WARD**

Executive Director  
**KYLE KIHS**

Publications Chair  
**CORIANNE BURNETT**

FOR MORE INFORMATION PLEASE VISIT:  
[www.pnws-awwa.org](http://www.pnws-awwa.org)

[facebook](#) [twitter](#) [Linkedin](#).

Published by



Managing Editor: Christa Campbell  
Layout & Design: Kiersten Drysdale  
Sales Manager: Darrell Harris  
Advertising Coordinator: Stefanie Hagidiakow

866-985-9780  
Fax: 866-985-9799  
E-mail: [info@kelman.ca](mailto:info@kelman.ca)  
[www.kelmanonline.com](http://www.kelmanonline.com)



© 2019 Craig Kelman & Associates Ltd.  
All rights reserved.

*No part of this magazine may be  
reproduced or reprinted without written  
permission from the PNWS-AWWA.*

## **Features**

- FRUSTRATED BY EPA,  
STATES BLAZE AHEAD ON PFAS ..... **37**



## **Departments**

Message from the Chair .....	<b>6</b>
PNWS Association Director Report .....	<b>8</b>
Message from the Executive Director .....	<b>10</b>
Committee Reports .....	<b>13</b>
Gray Matters .....	<b>24</b>
Subsection Updates .....	<b>26</b>
Industry News .....	<b>43</b>
Reach our Advertisers .....	<b>46</b>



# James Dean

## *PNWS Incoming Chair Speech*

May 3, 2019



I want to thank you for this opportunity. Little did I realize several years ago when John Griffith asked me to assist him with the Central Washington Subsection that I would be standing here before you today. It's been an interesting journey and one that I enjoyed much more than I thought I would. Our members are amazing individuals, always willing to offer assistance or knowledge when needed. I have reached out to many of you over the years as my career evolved and received some great advice and guidance. That is the real benefit of becoming part of our Section – the network you build, the friends you make, both of which make your career and life so much more enjoyable.

To that end, I am going to lean on all of you as my network over the course of my year as chair. As a Section we have a number of initiatives already in place that as luck would have it are beginning during this next year. This fall we kick off our very first Leadership Symposium in my hometown of Yakima, WA, September 25-26. It was a long time coming, but this symposium will provide much needed training for the next generation of managers in our industry. As the baby boomers retire we must prepare those that follow in their footsteps with leadership and management skills that are a daily necessity. Over two days we are going to provide training for all levels of managers from lead and supervisor to middle management as well as general managers and elected officials. We have included in the symposium the very successful Young Professional Summit with the

**As the baby boomers retire we must prepare those that follow in their footsteps with leadership and management skills that are a daily necessity.**

hopes that our Young Professionals will have an opportunity to attend additional sessions on the second day of the symposium and build their own network. I want to thank Chris Wanner who has done an excellent job over the last few years of taking the Leadership Symposium from concept to actualization. This is going to be a great symposium and encourage all of you to attend.

Over this last year under the guidance of past chair Mel Damewood we created a divisional structure for our committees, one that creates opportunities for committees to work more closely together. We are already seeing the benefits of this with new innovative training topics for our members. I believe there are opportunities to build on this success. Over the next year we will take a look at our committees and gage their effectiveness in our new structure. Are there committees that have stagnated and could be combined with more active, innovative committees? Do we need to add additional committees to better meet our member needs? An example of this is our newly formed Philanthropy Advisory Council. Chaired by Nick Belmont this committee provides guidance for the many events our

Section hosts throughout the year in our 12 Subsections. Years ago, our members raised funds for Water For People and our very successful Education and Training Fund. Now our members are also encouraged to raise funds for the association's Water Equation, which provides funding for AWWA Scholarships for graduate students, operator scholarships, young professional and student programs and the community engineering. The Philanthropy Advisory Council will provide recommendations for successful funding for all these great causes while not losing track on the focus of AWWA which is education for our members.

The last initiative of my year as chair effects this very conference. Next year in Spokane you will see a different PNWS Conference agenda. We have listened to your post conference survey comments; we have listened to our Young Professionals. You have told us that you want more training, you want the ability to craft your own conference agenda by having more offerings at any given time, you want less dead time and you also want changes to the traditional closing night banquet.

If we are going to continue to meet the needs of our members as we trend younger we need to continue to adapt and evolve. To meet those needs you will see these changes in next year's conference:

- The Tuesday Board of Trustees Meeting will be moved to Friday afternoon. We will present some awards; we will hear from visiting guests. It will be engaging; you will want to attend.
- Thursday will be exhibitor-focused and coupled with technical sessions. The Opening General Session will be discontinued. The evening will be our vendor hospitality night with the Young Professional Scavenger Hunt.
- Friday we will hold an Awards Luncheon in lieu of the Opening Session and Banquet. We want to appeal to potential new members, we want them to attend and hear about our great Section and our awards. We will reach twice as many people with this luncheon as we do with an evening banquet. Later that day, as the conference comes to an end, immediately following the Trustee Meeting we will close our Water For People silent auction at a reception where we pass the gavel to Incoming Section Chair Ronda Farmer.

We have a big year ahead of us, a year with new opportunities, a year full of change. I believe it is change for the better. A chance to build on what this Section has accomplished over the last few years, a chance

to continue to appeal to the next generation of water professionals. For many of us change is not easy, but we can do this together. We all have a network of industry professionals and friends who are with us every step of

the way. We have a great year to look forward to and I look forward to the journey we will make together. 

James Dean  
Chair



**NO-DES**  
WATER CONSERVATION

[www.no-des.com](http://www.no-des.com)  
[info@no-des.com](mailto:info@no-des.com)  
(559) 799-8415  
68 Hermanos Loop  
Los Lunas, NM 87031

The NO-DES flushing method replaces conventional flushing programs and eliminates customer complaints by cleaning distribution lines quickly and efficiently with high tech monitoring equipment. The mobile flushing unit has minimal water discharge, increases chlorine residuals and removes sedimentation, bio-film and other particulates down to 1 micron. Contact [info@no-des.com](mailto:info@no-des.com) for more information a demonstration, pricing, and contract services.  
Visit [www.no-des.com](http://www.no-des.com) to see what applications the unit can be used for beyond flushing.





## Three Year Wrap Up!

This is the last article I will write as your PNWS Association Director and it is most certainly a bittersweet transition for me. Randy Black with Lakewood Water District is very excited to start his term as Association Director and he will be an excellent representative for the PNWS on the International Board of AWWA. The opportunity to serve this Section as a Board member for eight years and an Association board member for three years has been a highlight of my career. Before I sign off though, I have two very important messages to relay from AWWA regarding funds available for source water protection, and resources for risk and resiliency planning.

### Working with the NRCS for Source Water Protection

I would like to urge water systems to reach out to your state conservationist about the funds available through the Farm Bill for source water protection. On December 20, 2018, the President signed the Agriculture Improvement Act of 2018, commonly known as the Farm Bill. That date marked the culmination of an extensive, long-term, and successful effort by AWWA to make source water protection a priority within

I would like to urge water systems to reach out to your state conservationist about the funds available through the Farm Bill for source water protection.

U.S. Department of Agriculture conservation programs – and to designate significant funding towards those efforts. Under the new Farm Bill, ten percent of spending on Conservation Title programs is to be directed to source water protection, providing at least **\$4 billion** over the next 10 years. These programs assist farmers, ranchers, and forest landowners protect and enhance environmental outcomes that have benefits both on and off-farm. Moreover, there is a now a directive for USDA to work closely with utilities to identify and prioritize areas that need source water protection. The best way to learn about how to access these funds is to reach out to your State Conservationists. Don't know who that is? Please see below for a list of contacts for your state and additional tools to learn more about this important funding opportunity.

Contact list of the State Conservationists for each state: [www.nrcs.usda.gov/wps/portal/nrcs/main/national/contact/states](http://www.nrcs.usda.gov/wps/portal/nrcs/main/national/contact/states)

USDA Tools to support source water protection: [www.awwa.org/Portals/01/AWWA/Government/USDASWPreport.pdf?ver=2018-06-27-110553-577](http://www.awwa.org/Portals/01/AWWA/Government/USDASWPreport.pdf?ver=2018-06-27-110553-577)

### Preparing your Water System Resiliency Plan

Also important to keep on your radar are the new requirements for a Water System Resiliency Plan that were included in the 2018 Water Infrastructure Act. AWWA offers great tools to prepare for this requirement, including a risk and resilience certificate program. This five-course certificate program is intended to help utilities to apply sound risk and resilience management strategies that will facilitate compliance with AWIA. The first course Facilitating Compliance with America's Water Infrastructure Act of 2018 (EL260) is complimentary and provides understanding of how existing standards and resources can be applied by utilities to lower risk and fortify their resilience. Learn more at [www.awwa.org/riskresiliencecertificate](http://www.awwa.org/riskresiliencecertificate).

Thank you for all of the support these past three years, it has been my great pleasure and honor to serve you as PNWS Association Director! ☺

Kari Duncan  
PNWS Association Director  
[kduncan@ci.oswego.or.us](mailto:kduncan@ci.oswego.or.us)

**COMPLETE  
WATER SERVICES**

Serving Our Northwest Region

**carollo**  
Engineers... Working Wonders With Water®  
[carollo.com](http://carollo.com)

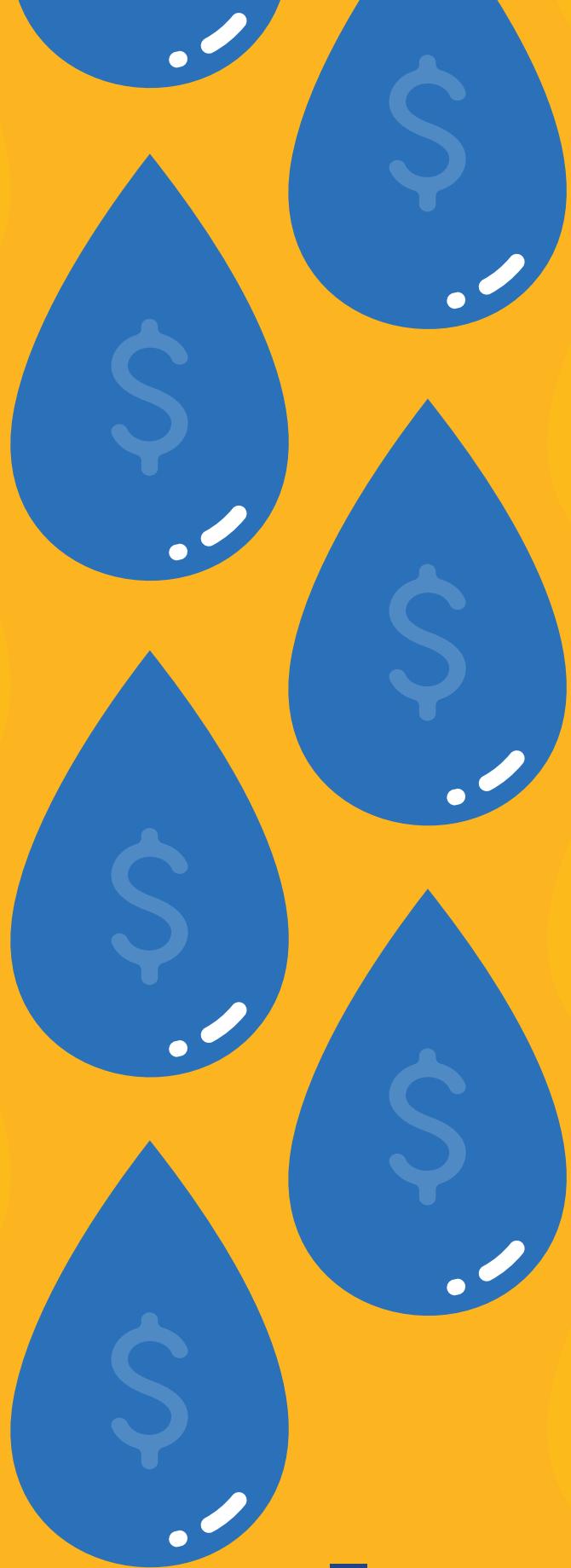
**Boise, ID** | 208.376.2288  
**Portland, OR** | 503.227.1885  
**Seattle, WA** | 206.684.6532

# Having an ally makes all the difference.

\$100K+ a year can be lost by a utility to leak adjustment programs. With the right partner, you don't have to miss out on your revenue potential. The Sensus ally® smart water meter provides the solution to identify and reduce your non-revenue water today. Experience the advantages when you have an integrated remote three-state flow control valve, pressure management and smart alarms working for you in near real-time in the field.



Explore the ally meter at  
[sensus.com/1035](http://sensus.com/1035)



**SENSUS**  
a xylem brand



# Cheers to Another Successful Conference!



## 2019 Section Conference

One thousand people attended our Section Conference in Vancouver the first week in May! Hopefully you had a chance to attend the conference, if not you missed some fantastic technical sessions, great networking opportunities and some intense competitions at our Wednesday evening competition night! You will find a conference wrap up in this edition of *Water Matters*. I want to thank the City of Vancouver and the Lower Columbia Subsection for putting on such a great event. You can find event photos, technical session presentations and final banquet award winners on our website. CEU letters will be mailed out this month from Action Registration.

## New Section Board of Trustees



At our Section Conference we see a changing of the guard... committee officers rotate on and off, many Subsection officers change positions and your Section Board of Trustees change as well. This year's Board of Trustees is headed by Chair James Dean (look for his column in this edition), Past Chair Mel Damewood,

Chair Elect Ronda Farmer, Association Director Randy Black, Treasurer Bob Ward, Oregon/Idaho Trustee's Suzanne DeLorenzo and Michelle Cheek; Washington Trustee's Dan Sleeth and Dave England; and Trustees At Large Alex Mofidi and Crystal Jensen.

## Some Future Dates to Remember



taking place from April 29-May 1. Complete the abstract submittal form on the Program Committee's webpage on our website.

## 2019 Leadership Symposium



Yakima, WA, September 26-27 will offer tracks for multiple levels of management including:

- Becoming a lead or supervisor – what skills do you need to manage your peers?
- Moving into mid-level manager
- Senior management and public officials
- Young Professional Summit

Don't miss this innovative new symposium where each day begins with general sessions with engaging keynote speakers such as George Hawkins former CEO and general manager of DC Water, panel discussions with your peers and training from communication

experts. You and your staff will learn valuable tools to engage, motivate and lead your teams regardless of your level of management experience. For more information and registration information check out our website. The two-day registration is just \$250 for members. Sponsorship opportunities are also available.



## October 8-10 – The Committee Officer Training and Fall Budget Meeting at the Marcus Whitman Hotel and Conference Center in Walla Walla.

If you are a committee officer or an active volunteer on a committee you are invited to attend this annual training. You will learn the skills and tools needed to keep your committee engaged and working towards a common goal, get up to speed on Section and AWWA new programs and policies and of course network with some amazing water professionals from around the Section.

You can expect:

- Tuesday, October 8 – Meet and Greet Reception and Dinner
- Wednesday, October 9 – Committee Officers Division Meetings with your Trustee Liaison's in the morning followed by lunch and Committee Officer Training in the afternoon.
- Thursday, October 10 – Trustee Meeting (some committees will be asked to present)

Look for more information and registration on our website.

I hope to see many of you over the course of our summer at any of our golf, networking and training events. Stay cool! ☀

Kyle Kihs  
Executive Director

*Don't Miss Our New Dates*

AUGUST 6-8, 2019



South Point Hotel & Casino ☠ Las Vegas, NV



The hotel is now accepting reservations. Code **TRI2019**.

For more information visit: [www.tristateseminar.com](http://www.tristateseminar.com)

*They both do the same thing...*



*but one  
does it better...*

**éndura**<sup>®</sup>  
GREASE MANAGEMENT

Prevent grease blockages and replace traditional steel or concrete traps with the robust, modern performance of Endura<sup>®</sup>

**Now Available!**



**éndura**<sup>®</sup>  
Calculator

For additional Sizing Tools and Maintenance Interval Optimization, use our Endura<sup>®</sup> Calculator at [EnduraGreaseManagement.com](http://EnduraGreaseManagement.com)

**ARCAT**.com



**@AEC DAILY**  
www.aecdaily.com  
online education for CEU's

[EnduraGreaseManagement.com](http://EnduraGreaseManagement.com) | 1-800-463-9572

Need technical support? [tech-support@endurainterceptor.com](mailto:tech-support@endurainterceptor.com)

Endura<sup>®</sup> is a registered trademark.



**IPEX**  
by aliaxis

### Customer Service Committee

The Pacific Northwest Section Customer Service Committee has been using the new materials and class format. The new program is more streamlined and takes two days to go through the material. CEU's are offered for this course.

The Committee is planning on holding another course in Wenatchee

in 2019. The dates for Wenatchee are September 30-October 2. Registration is not open yet so check back.

The PNWS Customer Service Committee website at [www.pnws-awwa.org/committees](http://www.pnws-awwa.org/committees) has information regarding trainings. Marika Thomas, Committee Vice

Chair, is working on updating our site. She has great ideas for it so keep checking back for information.

If you are interested in finding out more about scheduling the Customer Service Course in your area please contact Cathy Middleton, Committee Chair, [cmiddleton@rwpud.org](mailto:cmiddleton@rwpud.org), 503-674-4502. 

### Conservation Committee

The 2019 PNWS-AWWA held its annual conference at the Hilton in Vancouver, Washington. The Water Conservation Committee hosted three sessions. Jeff Sandberg from the City of Portland gave a thorough presentation on the current and historical commercial conservation outreach for the city. There were also presentations by Julie Smitherman on greywater, and Shelly Searle presented the case for non-potable one-site water systems. There were great discussions

during the question and answer periods. Jeanne Finger from the City of Spokane and Andrew Chastain-Wanner shared learnings from the City of Spokane use of the AWWA DSL tool.

The committee chair moved along in its annual progression from Shelly Searle (Beaverton, Oregon) to the new chair Kristen Zimmer (Spokane, Washington). Thank you Shelly for your year of service to water conservation in the Pacific Northwest. The vice chair position will

be held this year by Doug Greenlund (Spokane, Washington). Mark Tararoot continues as the committee secretary.

The call is out for abstracts for the 2020 PNWS-AWWA conference to be held in Spokane. The theme Your Vision/Our Future will anchor a great conference at the Spokane Convention Center, April 29-May 1. To submit an abstract please visit our website [www.pnws-awwa.org](http://www.pnws-awwa.org). Abstracts are due in by July 15th. 

## STRUCTURE. & INTEGRITY.



"100 years and still climbing"

**CREWS  
AVAILABLE  
GLOBALLY**

INSPECTIONS	REPAIR	TANKS
Wet	Code Updates	Elevated
Dry	Paint	Ground
ROV	Insulation	Relocation
In-Service Cleaning		Erection
		Dismantles

If you are interested in having us as your partner, feel free to contact one of our department representatives below

**NEW TANKS** – Rick DiZinno

(270) 826-9000 ext. 2601

**EXISTING TANKS** – Patrick Heitsley

(270) 826-9000 ext. 4601



**WWW.PTTG.COM**

## SMART WATER IS: BADGER METER

Contact Your Authorized Badger Meter Distributor to Discover More

**Erik Twenge**  
Account Manager  
(425) 766-3034  
[etwenge@nationalmeter.com](mailto:etwenge@nationalmeter.com)

[badgermeter.com/SmartCity](http://badgermeter.com/SmartCity)

National Meter & Automation is a wholly owned distributor of



### Distribution Committee

The Distribution Committee (DC) had a great Spring Conference in Vancouver with standing room only attendance at many of the precons and technical sessions. We want to thank all of the presenters and their employers for providing the time and effort to speak on behalf of the DC. Additionally, we extend a big thank you to all the moderator's who hosted each session.

Our conference committee meeting was held at the Vancouver Conference Center and attracted new potential members interested in the committee. Our new officers were selected and are as follows:

- Past Chair – Jeff Austin, Utility Service Group
- Chair – Dan Reisinger, Carollo Engineers
- Vice Chair – Doug Schlepp, RH2 Engineering
- Secretary – Rachel Lanigan, RH2 Engineering

With the addition of new officers, we always end up saying goodbye to old ones. At this time we want to thank Bill Reynolds for his many years of service in the role of Secretary, Vice Chair, Chair and Past Chair. The DC wouldn't be what it is today without Bill's leadership.

The committee officers met again on June 4th and took some time to reflect on the Vancouver Spring Conference. Looking forward to next spring in Spokane, we brainstormed

We want to thank all of the members who have served on the DC in the past and are grateful to those who desire to remain involved in the future. We are always looking for new members.

some ideas and will be soliciting abstracts in the following areas:

- Water Loss Control and Water Audits
- Water System Resiliency and Seismic considerations
- Asset Management and GIS
- Other great topics that are relevant to the region will be pursued.

The Distribution Committee pledged to be more proactive in recruiting and soliciting for technical presentations for the 2020 Conference. In addition to our outreach, if you, a coworker or associate has a great topic that would be suitable for next year's conference, submit your abstract soon! Coordinate directly with any of our DC officers regarding abstract submission – Dan Reisinger [dreisinger@carollo.com](mailto:dreisinger@carollo.com), Doug Schlepp [dschlepp@rh2.com](mailto:dschlepp@rh2.com), or Rachel Lanigan [rланigan@rh2.com](mailto:rланigan@rh2.com). If you have a presentation topic

related to water system distribution, or tailored towards our focus described above, please contact us.

Lastly, this committee recently reached out to our current DC membership to determine those who want to remain actively involved. We want to thank all of the members who have served on the DC in the past and are grateful to those who desire to remain involved in the future. We are always looking for new members and especially those employed by municipalities, special purpose districts and associations. We strive for a balance of public employees, consultants and vendors. Please reach out to the officers above if you have any questions about the DC and how you might play a role in its advancement in the future. 



**50 YEARS**  
1969 - 2019

**Delivering innovative water solutions since 1969.**

**Parametrix**  
ENGINEERING, PLANNING, ENVIRONMENTAL SCIENCES



**GSI Water Solutions, Inc.**

**Real-world solutions with a lasting impact.**

- Aquifer storage and recovery
- Water rights strategy
- Water supply planning
- Resiliency planning

[www.gsiws.com](http://www.gsiws.com)

# Engineering Committee

The past several months have been very exciting: the PNWS-AWWA annual conference was held May 1-3 in Vancouver, Washington and the Engineering Committee had another series of successful turnouts at the technical sessions, including the Wednesday pre-conference workshop. Our annual committee meeting was held Thursday, May 2 at Heathen Brewing and was attended by 19 people. Now Past Chair Kyle Thompson reserved a great space for us – thank you, Kyle!

Looking to 2020, we are already a month into preparation for next year's conference with the abstract deadline quickly approaching. Our preliminary list of topics to target for technical sessions at the conference includes:

- Willamette Water Supply Update
- Incorporating Water Treatment Facilities into Capital Improvement Planning
- Resiliency beyond Seismic (drought, fire, contamination, etc.)

We look forward to your abstract submissions!

### Engineering Outreach Events

Think You're Stressed? The Engineering Committee is organizing a tour to view the strand wrapping of Clackamas River Water's 6.0 MG reservoir followed by happy hour, sponsored by Murraysmith and DN Tanks, at Portland Cider Co. in Clackamas. The tour is scheduled for June 19, 2019 at 3:00pm.

More info here: <https://sites.google.com/a/pnws-awwa.org/engineering/home/announcements>

### Excellence in Engineering Awards

A total of eight Excellence In Engineering Award nominations were received for 2019, with the following winners selected by a panel of industry professionals:

- Small Project Category – C4 Tap and Transmission Project (Covington Water District)
- Large Project Category – Hannah Mason Pump Station (Portland Water Bureau)

Small Projects have a value of \$5M or less and large projects are greater than \$5M. An additional category of engineering planning projects exists although there were no 2019 nominations.

The nominees and winners were highlighted in the last issue of *Water Matters*. Thank you to everyone for your great nominations! We look forward to seeing your best projects in 2020! Watch for email announcements in the fall for an early 2020 nomination deadline.

### Committee Meetings

Our annual abstract selection meeting will be held at the end of August at the Olympic Club in Centralia, Washington. The meeting will be held over lunch and is your chance to voice your opinion on conference track themes and vote for abstracts. Please plan to join us! 

# ORWARN Committee

ORWARN has gained several new members since November, including: the City of McMinnville, the Confederated Tribes of Warm Springs, Marion County, City of Oakland, City of Lincoln City, and Prairie City. Additionally, The City of Gresham has been added to the Shared Worker Addendum and Delta Operations has become an Associate Member.

### Dispatching ORWARN

ORWARN has been dispatched a few times since November including Warm Springs' loss of water and again earlier this spring where some tools/supplies were needed. ROW River Valley Water District also needed supplies and requested ORWARN's assistance in March of this year.

### Website and Brochure Upgrades

We're currently updating the ORWARN brochure. The discussions that have come up involve reducing text on the brochures to highlight pertinent information as well as clear directions to access the website if more information is desired. The ultimate goal has always and continues to be to have statewide utility membership and to get there we need to analyze if some utilities don't realize we're an available resource, if they don't see us as necessary to them, or if they just don't understand what ORWARN is. With the updating of the brochure, we hope to answer these and other questions our desired members may have.

Regarding the website, the consulting agreement has been signed and we're currently working with BPro.

Topics have arisen such as hosting/advertisements with external companies, full redesign of the site and necessary modifications, and accessibility for members (i.e. retirements and/or transitions mean change in how to logon to the site. Collaborative discussions on how to mitigate deficiencies where this is concerned).

### Meetings and Conferences

ORWARN board members have attended several statewide conferences and trainings such as Oregon Prepared, the Eastern Oregon Operators Conference, PNWS-AWWA Conference, as well as conducting a table-top exercise (TTX) at the Cascade to Coast Short School in Albany. With this visibility, we gained some of the members listed above. 

### Oregon Water Utilities Council (OWUC)

The Oregon Water Utilities Council (OWUC) monitors legislation, regulations, and court actions that could impact the water industry, giving members the ability to engage in and help shape these kinds of issues. In addition, it provides its members with the ability to network with other water utilities of all sizes across the state to share information, discuss issues of importance to drinking water providers, and to engage in solutions. The legislative activities are closely coordinated with policies of the AWWA when applicable. Here is an update of what OWUC has accomplished over the past few months:

#### State Legislature

The legislature opened session January 22, 2019. OWUC members have been actively tracking and providing testimony on bills affecting water utilities. These bills address agency budget requests,

In February, OWUC hosted the first "Capitol Drive In" where OWUC members met with state agency heads and elected officials in the Oregon House Senate.

system development charges, laboratory analysis of cyanotoxins, qualifications-based selection of professional services, protection of backflow prevention and conservation measures, transfers of stored water rights, resiliency planning, carbon cap and trade, and much more. In February, OWUC hosted the first "Capitol Drive In" where OWUC members gathered in Salem to meet with state agency heads as well as elected officials in both the Oregon House and Oregon Senate. Crafted

around the national AWWA "Fly In" in Washington, D.C., the "Drive In" gave OWUC members a chance to meet their elected officials at the Capitol Building and share with them their water utility concerns and perspectives from the drinking water industry.

#### Rule Making

OWUC members provided feedback in both the Oregon Health Authority's Cyanotoxin Monitoring Rules and the Oregon Water Resources Department Water Management and Conservation Plan Rules. This feedback was a collaborative effort that resulted in more effective rules.

#### Committee Business

OWUC attended the Tri-State WUC meeting in Vancouver during the PNWS-AWWA annual conference and shared issues of concern in Oregon. Theresa O'Grady from the Illinois Section was the AWWA visiting officer attending the Tri-State WUC meeting. She provided an update regarding the state's recent establishment of *Legionella* control measures for public water systems. Finally, OWUC continues to work with several Oregon communities and their consultants on two important projects. The first one is establishing a process by which ozone can be approved for pre or post filtration and receive inactivation credit for giardia and cryptosporidium. The second is representing water utility interests in the Willamette Basin Review Study under development by the U.S. Army Corps of Engineers.

To find out more about how you can get involved with the Oregon Water Utilities Council, please contact Michael Grimm, OWUC Chair, at [mgrimm@wsd.org](mailto:mgrimm@wsd.org).

**IBC Tote Scales™ & Drumm-Scales™:**

# STOP WASTING EXPENSIVE POLYMER!

Accurately monitor amount of polymer being fed  
Maximize solids yield with minimal polymer use  
Feed Rate alarms warn when off target

For more information,  
Call (925) 686-6700 or  
visit [www.forceflowscales.com](http://www.forceflowscales.com)

**FORCE FLOW**  
CHECK. CONTROL. COMPLY.

# Public Information Committee

### Excellence in Communications Awards

There were 26 entries this year. We again offered free entry to small utilities which has increased participation. The Best-of-Show Award went to the City of Gresham for their Water Quality Report.

### Vancouver 2019 Technical Sessions Available

We would like to thank our presenters for their contributions to our technical program this year. All presentation slideshows are posted on our PI webpage library.

### Call for Abstracts for Spokane 2020

Our committee plans to host a technical session at Spokane 2020. We invite abstract submittals on the topics of Water Quality Event Communication Plans with an emphasis on Cyanotoxins. If you have an interest in presenting on this or any topic, please submit your abstract online at the PNWS website before July 15, 2019. We look forward to reviewing your submittal.

### Public Information Committee e-Newsletter

Please email [robin.pederson@greshamoregon.gov](mailto:robin.pederson@greshamoregon.gov) if you would like to receive our monthly e-newsletter. We provide communications training forums to members and advocate for effective and meaningful outreach about drinking water. 

Robin Pederson  
Public Information Committee Chair  
[robin.pederson@greshamoregon.gov](mailto:robin.pederson@greshamoregon.gov)

## Congratulations Excellence in Communications Award Winners

Category	Agency	Name of Entry Print Communication
<b>Print Communication</b>		
Large Utility	Clackamas River Water Providers	<i>The Clackamas River Watershed Activity Book</i>
Small Utility	City of Prineville	<i>The City of Prineville is Conserving Water</i>
<b>Calendar</b>		
Large Utility	Olympia Water and Stormwater	<i>Water Resources Stewardship Through Art</i>
<b>Best Video</b>		
Large Utility	Tualatin Valley Water District	<i>"Game of Seasons"</i>
<b>Consumer Confidence Report</b>		
Large Utility	City of Gresham	<i>2018 Water Quality Report</i>
Small Utility	City of The Dalles	<i>2017 Water Quality Report</i>
<b>Strategic Communication Plan</b>		
Large Utility	Tualatin Valley Water District	<i>Gold Plan: Cross Connection Program</i>
Small Utility	City of The Dalles	<i>Cyanotoxin and Communications Plan</i>
<b>Internal Communication</b>		
Large Utility	City of Bend	<i>2016-2017 Annual Report</i>
<b>Wild Card</b>		
Large Utility	Regional Water Providers Consortium	<i>How to access water from your water heater doorhanger and how-to video</i>
<b>Best in Show</b>		
Large Utility	City of Gresham	<i>2018 Water Quality Report</i>

### Scholarship Committee

The Pacific Northwest Section began providing scholarships in 1971. The Section Board formally established the Education and Training fund (E&T) in 1985 to help provide a stable funding base for these scholarships. Since 1995, the Section has awarded just over half a million dollars in scholarships to 215 students. We also recognize the increasing participation by Subsections in the E&T program. The Inland Empire Subsection, NW Washington Subsection, Southwest Idaho Subsection and the Southern Oregon Subsection all have named scholarships.

This year E&T proceeds and direct contributions from the NW Washington Subsection, Kelman & Associates (our *Water Matters* magazine publisher), and the Section Board enabled us to award a total of \$34,790 for nine (9) scholarships. Several awardees were able to join us at this year's Section Conference.

The water industry faces a critical shortage of operators and the need is expected to increase by 6% in the next decade. The One AWWA Operator Scholarship was created to address the present and future need for operators by providing training and educational funding. Matching dollars from the American Water Works Association (\$1,000) and our Northwest Washington Subsection (\$1,000) provided the funding for the scholarship. Samuel Green of Bellingham Technical College was the 2019 recipient of the One AWWA Operator Scholarship.

Bashar Al Daomi was awarded the Allen A. Alsing & E&T Scholarships totaling \$4,700. Bashar is pursuing a PhD in Aquatic/Environmental Chemistry at Portland State University.

Holly Terrill is working on her Bachelors degree in Civil Engineering at the University of Idaho, and was awarded the Past Chairs, Alan Jones, Billy and Teddy Beckman and E&T scholarships totaling \$3,640.

Tyler Oshiro was awarded the Chris Uber Memorial Scholarship totaling \$4,150. Tyler is pursuing a Master



If you would like to make a tax-deductible contribution to the Education and Training Endowment Fund, please contact Bob Willis, E & T Chair, or Kyle Khis, Section Executive Director.

of Science degree in Environmental Engineering at Stanford University.

Deviyani Gurung was awarded the Northwest Washington Subsection Named and Direct scholarships totaling \$4,350. Deviyani is studying at Washington State University seeking a Master of Civil Engineering.

Scott Miller received the Skiles/Pettie, SW Idaho Subsection, Legacy and Inland Empire Subsection scholarships totaling \$4,000. Scott is attending UC Berkley pursuing a Ph.D. in Environmental Engineering.

Lauren Kennedy was awarded the Pacific Northwest Section, Kelman & Associates, and the Kathy Merry Scholarship of \$4,050. She is a student at UC Berkley studying Environmental and Ecological Engineering.

Pak Kong was awarded Southern Oregon Subsection and RH2 Engineering scholarship of \$4,050.

Pak is studying at Seattle University seeking a degree in Environmental Science and Resource Management.

Heather Pina received the Archie Rice, Cynthia Driscoll and Wubbena Family scholarships totaling \$3,850. She is a Master of Science student at Colorado State University student studying Civil Engineering.

Now for the commercial... colleagues, friends, associates and guests, if you would like to make a tax-deductible contribution to the Education and Training Endowment Fund, please contact Bob Willis, E & T Chair, or Kyle Khis, Section Executive Director.

Thank you for supporting the future of our organization, our communities and in particular, these outstanding students. Contact Cory Baune or LaDonne Harris of the Scholarship Committee with any questions at [scholarship@pnws-awwa.org](mailto:scholarship@pnws-awwa.org).

### Utility Management Committee

For those of you that weren't able to attend the Utility Management Tracks on Friday of the spring conference, you missed some great topics.

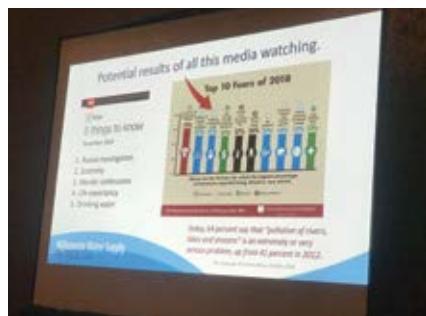
Timothy Murrell shared with us his **Traditional Leadership in the Electronic Age** and how that is changing a water system in eastern Washington. Updating the logo, getting everyone in the office on the same operating systems and having mobile access as well as updating the way the work orders, mapping and systems are managed and maintained, are just a few of the changes he has brought to the utility in recent years.



Katherine Howell spoke about **How to Attract and Keep a Younger Workforce** and how those of us that have been in the profession for a few years, may have to change the way we ask questions and interact with the new and younger employees. Her quiet but obvious passion for

her students showed and helped to reinforce that change is coming and we better be ready for it.

**In Retool your Communications Program Utilizing Public Opinion Research**, Marlys Mock shared with us her many graphics that they have used in their as part of the Willamette Water Supply Project. Complex problems can be solved with simple clear messages and by starting early. We look forward to future presentations as this project is developed over the next few years.



Nicki Pozos spoke about **Where do good ideas come from?** There are all sorts of levels of public involvement that we can participate in; it depends on us and how much we want to engage.

Bob Patterson spoke about his recent effort to obtain one of the **Top 10 Public Works Leader Recipient** award from APWA. It was an award that took efforts of many people and organizations within his community.

Our afternoon sessions included:

**The Next Generation of Seismic Vulnerability Analysis** by Doug Lane. We learned about what the level of service is for reservoirs what kind of risks we could be expecting from a Seattle Fault. It was a good discussion about a project that many of us face. The analyses are not yet complete so we are expecting to hear from Doug next year regarding the results and how Bellevue intends to meet the water demands in a major earthquake.

Doug's topic was followed by Jeff Austin's talk **In-Place Pipe Rehabilitation Utilizing Advanced 100% Solid High MIL Epoxy Lining Systems**. We learned that most systems are operating in the "running to failure" mode by not properly planning and reinvesting in our system. One way to stretch the capital dollars further is doing Pipebursting/ Pipe splitting along with a solids epoxy method. It isn't as popular currently but it does have a lot of advantages.

Doug Lane filled in for Jenna Anderson and Jay Hummel with their talk on **Larger Facility Needs, Constrained Site, Oh My!** The City was considering upgrading a reservoir at a remote site when operations staff suggested moving a pump station on site to another location to help with a better tank layout options on the leased property. The key to the success of the project was the public outreach.

**Nicki Pozos spoke about Where do good ideas come from? There are all sorts of levels of public involvement that we can participate in; it depends on us and how much we want to engage.**



**Navigating a Boom: How Lakewood Water District Provides Information to External Stakeholders** was enthusiastically discussed by Kevin Wyckoff. He was younger than most of the presenters and had a fresh look to how water system data was being requested and what information the District *was* and *should* actually provide to the requester. His recap of data needs since the "1980s" was humbling to realize how far we had actually come with our mapping and asset information.



**Strategic Asset Planning at the City of Vancouver** was discussed by Elaine Huber. Her long-term involvement with asset management started nearly 20 years ago and how she had to get staff 'buy in' to make the project successful. Starting with documenting the valves in the system proved to be a key to her success. It may have been a small part of the system assets but it got everyone onboard and excited about the project.

As long as several folks in the audience were there to see the City of Vancouver speak, Eugene Durshpek and Tyler Cary spoke about how they **Using GIS to Assess Water Pipe Assets and Help Prioritize Capital Projects**. They have limited capital reinvestment funds available at this time for mainline replacement so they have to be careful about how and where they spend their capital

dollars. They use their information about leaks to help them map out where they can get the most 'bang for their bucks.'



All and all, it was an extremely informative day and if you missed us this year, hope you can put it on your calendar to see us next year.

# Owen Equipment

**EQUIPMENT & ACCESSORIES FOR PUBLIC WORKS**

SEWER CLEANING	VALVE OPERATING
HYDRO-EXCAVATING	ROOT CONTROL
PIPELINE INSPECTION	GREASE/ODOR CONTROL
LINE LOCATING	STREET SWEEPING
LEAK DETECTION	PATHOGEN PROTECTION

CHECK OUT OUR ONLINE STORE  
[shop.owenequipment.com](http://shop.owenequipment.com)

**OWEN RENTS**  
*Combo Trucks • Vacuum Excavators  
Sweepers • Jetters • Nozzles*

# VACTOR 2100

**RDB|10™**  
The revolutionary new boom telescopes 10 feet out and extends the debris hose down 15 feet.

**NEW** [owenequipment.com/2100i](http://owenequipment.com/2100i)  
Info • Specs • Videos • Demos

**FOUR FULL-SERVICE LOCATIONS**  
Portland • Kent • Fairfield • Salt Lake City

**(844) GOT-OWEN**

**TRUVAC**  
by Vactor Mfg., Inc.

TRUVAC is brought to you by Vactor® Manufacturing, Incorporated, the proven leader in quality vacuum equipment, to focus on vacuum excavators and safe-digging.

For more than 100 years, Vactor Mfg., Inc has set the standard for excellence in operator-focused innovation.

**RIDGID**

[owenequipment.com/RIDGID](http://owenequipment.com/RIDGID)

**CALL NOW FOR A FREE DEMO OF ANY OF OUR PRODUCTS**

### Water Resources Committee

#### 2020 Session Planning and Call for Abstracts

After hosting two committee meetings in May, the WRC is in the midst of its session planning for the 2020 Section Conference in Spokane. We've advanced a couple of session ideas and are reaching out to several specific speakers on source development and water rights. The WRC is seeking abstracts related to the following topics:

- "One Water" and related topics on Sustainable Water Use and Reuse
  - Natural disaster/Climate Change Supply Resiliency
  - Resource Management, Source Exchange, and Water Rights Mitigation
- As always, we have a very short turnaround for 2020 abstracts, with the submission portal officially closing on July 15. Feel free to reach out to committee officers if you have a topic that you'd like to submit on, and we can provide feedback. Since one of the committee's

core goals is to provide relevant sessions that provide operators with CEUs, it is important that presentations (and abstracts) present solid technical topics.

On top of our fast-paced session planning, the WRC is currently planning a social for the 2020 conference. We're hoping to stay ahead of the curve and tentatively planning to book a venue near the conference center for food and drinks. Stay tuned!

#### Committee Meetings and Summer Social

Our monthly committee meetings will continue into late summer while 2020 conference planning continues (check our webpage for meeting details). No summer social is currently planned, but the WRC is considering an event at the Spokane conference. The WRC is continuing efforts to reach out and coordinate with subsections in WA, OR, and ID on training opportunities for 2020. Contact us if your

subsection has training needs or interests in the water resources arena!

#### 2019 Section Conference

The three sessions hosted by the WRC at the 2019 conference were popular and went off without a hitch. We had a packed room for almost all of our talks spread over three sessions. Thanks to everyone that came, and please reach out with feedback.

#### Committee Business

The torch was passed on committee officers at the 2019 section conference. Current committee officers are DeEtta Fosbury (past chair), Andrew Austreng (chair), Jacob Krall (vice-chair), and Jeanne Finger (secretary). Please reach out to our officers if you are interested in getting involved, especially if you have ideas for 2020 activities. We will be looking to coordinate on initiatives at the fall training meeting in Walla Walla and during our monthly meetings, so look for us there. 



## global expertise delivered locally

Contact your local Water System Consultant

Jeff Austin  
855-526-4413 • [help@utilityservice.com](mailto:help@utilityservice.com)

Utility Service Co., Inc. • [www.suez-na.com](http://www.suez-na.com)

### services to help you manage your system

#### ► asset management

water wells | tanks | treatment plants  
meters | concrete assets | pipes

#### ► water wells management

water well drilling | well & pump  
rehabilitation and maintenance

#### ► water quality in distribution systems

ice pigging | in-tank water mixers  
trihalomethane removal systems

#### ► energy & water conservation

smart data systems | metering services  
leak detection | biosolids



An ISO 9001:2015 Quality Assured Company

### Young Professionals Committee

The Pacific Northwest Young Professionals (YPs) are a dedicated group of young professionals and students who are excited to engage with all that AWWA offers. Check Facebook (see below) for the latest events providing powerful leadership skills and technical information to enhance your career, as well as network with professionals and students in the water industry.

#### 2019 Vancouver Conference

We had our second ever full YP track at the 2019 PNWS AWWA Conference in Vancouver, WA! Our track was focused on soft skills for young professionals in the water industry. Next spring you can look forward to learning more about leadership skills, strengths in the workplace, resume building, networking tips and much more.

#### Fresh Ideas Poster Competition

This annual competition is a unique opportunity for all YPs, not just students, to present their water and wastewater research to a diverse audience of professionals. Thank you to the many conference attendees who stopped by to see the great research and projects of our YPs. Congratulations to our 2019 winner, Tessora Young, who went on to represent us at the AWWA Annual Conference and Exhibition (ACE19) in Colorado.

#### Pioneer Award

Chris is truly a pioneer in the water industry, connecting people to the resources they need, and is always up for taking on a new task in service to others. Chris is the type of person who steps up when there is a need, and gets things done, and is well known within the section as a role model for others. A mentor of his spoke to Chris's character well when he said "As you know, it is hard to say enough great things about Chris. He is always there to lend a helping hand, keeps a great attitude under all circumstances, and he knows just about everyone under the sun." Over this past year, Chris has brought a new vision to membership, and has tied those efforts with the 2020 Vision



and YP Committees as the committees' transition beyond 2020. Through Chris's vision, the membership committee has transitioned to the Membership Engagement and Development Committee (MEDC) to promote a focus on developing existing members as well as growth. Chris is a visionary for the MEDC and 2020 Vision and exhibits exemplary service to the water industry. During the day, when not leading AWWA, Chris is a client service manager at Murraysmith, in Portland Oregon, providing client services for the firm's Oregon and southwest Washington interests.



#### PNWS YP Events

##### 6th Annual YP Summit

Our fourth annual PNWS-AWWA YP Summit will be held on September 27, 2019 in Yakima, WA in series with our first ever PNWS Leadership Symposium. This year's theme is "Soft Skills." The full-day event will be brought

together by our PNWS's YPs day of career-building interactive workshops in communication, leadership, diversity and networking. Get registered today at [www.pnws-awwa.org/pnws-events/leadership-symposium](http://www.pnws-awwa.org/pnws-events/leadership-symposium).

#### PNWS Student Outreach, Career Fairs and Mentorship

Planning a career fair event or student outreach? Also, interested in connecting with any other industry professional through the PNWS Mentorship program? See the 2020 Committee website for more details here: <https://sites.google.com/a/pnws-awwa.org/2020-vision-initiative-committee/home>.

#### Participate and Stay Connected!

- **Monthly YP Calls:** Email YP Chair, Erica Rodriguez at [erica.rodriguez@murraysmith.us](mailto:erica.rodriguez@murraysmith.us) to get on the listserv.
- **Follow us on Social Media:**
- **Events calendar** on the PNWS website for information on upcoming YP and Student events at [www.pnws-awwa.org](http://www.pnws-awwa.org).
- **Join the YP Committee:** There are lots of ways you can help, event planning, leadership roles, career fairs and beyond! Contact YP Committee Chair Erica Rodriguez for more information [erica.rodriguez@murraysmith.us](mailto:erica.rodriguez@murraysmith.us).



### 2020 Vision Committee

The 2020 Vision Committee, in partnership with the YP Committee and Membership Committee is gearing up for the busiest season of the PNWS calendar with the upcoming conference in Vancouver, Washington!

With the spring conference behind us, the 2020 Committee is gearing up for another year of career fairs, student outreach, and getting ready for the third year of the PNWS mentorship program.

**2020 Vision:** To align with AWWA's strategic initiative for a sustainable future by bridging young talent with the water industry.

**2020 Mission:** To seamlessly unite multiple generations of water industry professionals by helping employers attract and retain talent and to support students and YPs in finding fulfilling work.

#### Hosting a Career Fair and Need more AWWA SWAG?

- Reach out to [jstultz@brwncaid.com](mailto:jstultz@brwncaid.com) and we can ship you supplies for your next event. Giveaways help leave students with something to hold onto and remember AWWA as they consider future opportunities.
- PNWS Event Toolbox with "how-to" instructions and resources for event planning: (<https://sites.google.com/a/pnws-awwa.org/2020-vision-initiative-committee/events>).
- Membership Video to share the PNWS story ([www.pnws-awwa.org/member-groups/awwa-membership](http://www.pnws-awwa.org/member-groups/awwa-membership)).

#### Mentorship Program

The 2019-2020 mentorship application is LIVE. You can fill out the application anytime between now and the start of November, when the mentor and protégé pairs will be matched. To learn about the program and find the

application, please see the Mentorship Guide at [pnws-awwa.org/mentorship](http://pnws-awwa.org/mentorship). Don't hesitate to reach out to our mentorship program coordinator Kevin Wykoff with questions, [kwyckoff@pnws-awwa.org](mailto:kwyckoff@pnws-awwa.org).

#### YP Summit and Leadership Symposium

Becoming a lead or supervisor – what skills do you need to manage your peers? Want to network with YP, and SPs to share experiences and make connections, while gaining leadership skills? Join us for a two-day Summit and Training Symposium in Yakima, Washington, September 26 and 27. We have full days planned with workshops focused on key topics like communication, diversity and inclusion, and negotiation.

Stay Connected on YP and 2020 activities by attending the monthly YP Committee calls: Email YP Co-Chair, Erica Rodriguez at [erica.rodriguez@murraysmith.us](mailto:erica.rodriguez@murraysmith.us) to get on the listserv. 



LARGE LEAK DETECTED

With Automated Meter Reading (AMR) and Advanced Metering Infrastructure (AMI) products from Ferguson Waterworks, utilities can develop a better understanding of actionable data collected from water systems, assist customers in water conservation efforts and increase revenue by curtailing water loss.

For more information, email [meters@ferguson.com](mailto:meters@ferguson.com)

## YOUR PARTNER IN ADVANCED METERING TECHNOLOGY.

Partner with Ferguson Waterworks to provide utilities with a streamlined, reliable experience with advanced metering technology.

With Automated Meter Reading (AMR) and Advanced Metering Infrastructure (AMI) products from Ferguson Waterworks, utilities can develop a better understanding of actionable data collected from water systems, assist customers in water conservation efforts and increase revenue by curtailing water loss.

For more information, email [meters@ferguson.com](mailto:meters@ferguson.com)

 **FERGUSON**  
WATERWORKS

[FERGUSON.COM/METERS](http://FERGUSON.COM/METERS)

©2019 Ferguson Enterprises, Inc.

0519 1129156

## Change

By Dan Kegley

You have probably heard the cliché that the only constant is change. There are many mantras or approaches to change, change management, change leadership or perhaps you have been to a recent training that provided all the enlightenment you need. The question I have is that if there are all these tools and change is constant then why are we all not experts dealing with change? I have had previous supervisors whose belief is that change is healthy and therefore do it. Not the most effective approach and one that never addressed that during change things happen you receive new inputs, new developments or new twists that alter your process. The key, I feel, is that how we lead change and how we adapt through the process is what may lead to success or failure.

There have been thousands of classes, webinars, podcasts and papers written on how to address change and lead through change but what I have gathered over the years is that the process to lead change cannot be wrapped up in a neat package and delivered to your doorstep. It takes work. Each situation is unique and different and in most cases you need to lead the process or get out of the way of one who can. We know all of the key elements or buzz words buy in, integrate, create culture... but at the end of it all do we have a team that will embrace it and accept it? We often get so preoccupied with leading or directing or managing change we forget to pause to embrace or recognize our success along the way. We can get so swept up by the process that we lose sight that our team members need affirmation and appreciation for the work that they do throughout the process not just at the end of the process.

I see change as an opportunity and it is important that your team has a similar mindset. There will always be some that may not share your opinion and that's okay, in fact



it is healthy. I have often heard that if you have 10 people constantly saying yes that nine of those people are replaceable. Having someone with a different opinion or point of view keeps us grounded and in the present. If you want to make people feel more comfortable and build trust start by being open, honest and transparent. Share what you know, avoid decisions made in a vacuum. Your team is strongest when everyone knows the facts. The better informed they are the better input you receive. Be sure that everyone is up to speed and in the moment. Some people may grab facts or concepts at a quicker rate than others, it doesn't mean they don't or won't understand they may just process the information at a different rate than those around them. Make time at each meeting for questions and answers. I am that person that will stop a meeting and ask what I feel may be a silly question but more often than not there are others with the same question or would benefit from a refresher. Acronyms are a great example – please don't assume that everyone knows what they mean.

I mentioned before not to expect that change can be well-packaged, scripted and delivered. I have been dragged through the 8 Principles of Change; create the plan, understand the goal, communicate, identify key players, delegate tasks, set objectives, manage expectations and hold people accountable – I wanted out by step 4. People want to engage, people want to build, create and belong. Take the time to listen, educate and appreciate your team and you may find that they will listen, educate and appreciate you as well. Be ready for the curve ball. Change is adapting. If we never had to adapt or change, then this article would have been very brief. People would not be getting rich on change management seminars, webinars, and Ted Talks. You should be prepared for a new direction or consequences as a result and deal with them as they come. My sports analogy would be if you are fed a steady dose of fast balls get ready for the curve or change up. Keep your team informed, provide them with support, celebrate the small successes and add a little coaching when needed and they will hit the curve out of the park.

# THINK IT. TEST IT. DO IT.



Filtration Pilot Module  
F40610-SAP-2PC-4CF

**CHANGING  
WATER QUALITY?**

**INCREASED DEMAND  
ON EXISTING SYSTEM?**

**NEED TO OPTIMIZE YOUR SYSTEM TO  
REDUCE COSTS OR MEET REGULATIONS?**

## **COMPARE**

Compare conventional or alternative water treatment technologies for new plant construction or existing plant expansion

## **VALIDATE**

Validate groundbreaking and innovative water treatment technologies

## **ESTABLISH**

Establish design criteria with confidence to ensure the best technical and economic treatment choice

## **TEST**

Test for compliance with local, national and international regulatory standards

## **OPTIMIZE**

Optimize existing water treatment processes

## **EXPERIMENT**

Experiment safely without the worry of potentially hazardous effluent water going to the public

## **TRAIN**

Train water treatment plant operators and provide public demonstration and education

**STANDARD FLOC/SED, FILTRATION,**

**AND OZONE PILOTS**

**AVAILABLE FOR LEASE OR PURCHASE**

**INTUITECH.COM | SALES@INTUITECH.COM**

**801-487-9255 EXT. 1**

### Inland Empire Subsection

Inland Empire Subsection (IESS) has transitioned to its newest president, Michelle Johnson from J-U-B Engineers. She brings on board our newest Director, Branden Rose, from Hayden Lake Irrigation District. Branden started at Hayden as a field operator, and transitioned into position of Field Supervisor in 2015. In 2017 he was appointed as District Administrator. He is also a member of 811, Call Before you Dig, and Idaho Washington Aquifer Collaborative (IWAC). Michelle is also vice president for the Small Systems Committee. Her goal this coming year is to involve small systems and show them what we're about by visiting and holding meetings in regions within our Subsection boundary. She specializes in helping various small systems throughout the region on a regular basis through her engineering work.

Truck Rodeo almost doubled in size this year with the help of last year's newest Board Director, Sara Broderius, who came up with the idea of doing classes for office help and public officials. It was a huge success. Sara also took the Best Tasting Water Award at the Vancouver Section Conference

for her utility, Vera Water and Power located in Spokane Valley.

IESS is gearing up for its 4th Annual Golf Tournament promoting scholarships in the water and wastewater industry. The goal this year is to raise the current IESS Scholarship to \$20,000. They've a strong foothold at Indian Canyon Golf Course, and have already received several attendees that have participated in the past. Word is getting out that it's a great time.

Board Director, Seth McIntosh from the City of Spokane, is chairing our No Water No Beer Event again – and he's hoping to have the event in September. Seth was very successful in chairing the event last year (his first year doing so!). He doubled the amount of funds raised, and people in attendance. He basically hit a home run, and we can't wait to see what he does with it this year.

Young Professionals is really taking off with some networking events being put together by some active young members of IESS. Several area utilities and engineering firms are working together to provide a fun and safe networking environment. They're realizing they'll one day replace those that are retiring, so they're starting to foster those valuable

business relationships now. They're doing a great job at erasing prior stigmas and perceptions by inviting field workers and engineers with the emphasis that one day those field workers will be management. They're seeing the friendships at the bigger tables, and realizing the collaboration and value of starting these business relationships early on.

We have some First Aid classes that have been requested to be scheduled in the fall, along with some DOH regulation classes, and a possible sand filtration class.

Our current past President, Loren Searl, was recipient this year of the Section Activity Award. He will be chairing the Truck Rodeo next year in March.

We are proud of all of our members, and their contributions. Also contributing to our ongoing success are our current Board of Directors; Bijay Adams, Liberty Lake Sewer and Water, Dion Holton, Coeur D'Alene Water Department, and Bob Cunningham of Irwin Water District.

Reach out to Michelle Johnson [mjohnson@jub.com](mailto:mjohnson@jub.com) for contact with IESS. 

## Made in the USA!

Look to Ford Meter Box for U.S. Manufactured Products



[www.fordmeterbox.com/usa](http://www.fordmeterbox.com/usa)

260-563-3171

Contact Ford Meter Box for AIS and Buy America compliant products

**Do you know who's been to your water sites lately?**



**CyberLock®**

- Sets employee access schedules
- Tracks access to each area
- Keeps management informed
- Increases accountability

206-686-8463 • [sales@sybissolution.com](mailto:sales@sybissolution.com)  
[www.sybissolution.com](http://www.sybissolution.com)

### King County Subsection

The King County Subsection of PNWS-AWWA is actively looking for ways to serve our members. From socials to educational opportunities, we encourage folks to get out there, meet the amazing people who make up this industry and get involved! If you are interested in volunteering or have any questions, please reach out to Charlie Sovacool at [charlie.sovacool@consolidatedsupply.com](mailto:charlie.sovacool@consolidatedsupply.com) or Sally Mohr at [sally.mohr@covingtonwater.com](mailto:sally.mohr@covingtonwater.com).

#### Competitions

The King County Water Olympics was held on March 14th at the Brightwater Facility in Woodinville, WA. The winners of each contest moved on to the PNWS-AWWA Section Conference held in Vancouver, WA in early May. They are highlighted below!

#### Meter Madness

In its fourth year, Meter Madness continued to add excitement during the water-judging event. It was the dexterity skill set from years of knitting that prevailed when nine people stepped up to the table to see who the quickest and most nimble water professional would be! Runner up was Tom Bagley with Northshore Utility District and first place was Brinlee Finzel, Brown and Caldwell, with 43.16 seconds! Thank you Brinlee for representing King County at the Vancouver Regional Conference!

#### Best Tasting Water

We had eight contestants submit water samples. Seattle Public Utilities, represented by Lynn Kirby, took home the Best Tasting Water for Treated Systems! Lake Forest Park Water District, represented by Alan Kerley and Commissioner Eli Zehner, took home the prize for Best Tasting Water for Untreated Systems! Lake Forest Park Water District moved on to represent the King County subsection at the PNWS-AWWA Regional Conference in Vancouver, WA, where they were awarded the Third Place Finish! Denny Clouse, North City Water District, Cheryl Capron, Chair of



Lynn Kirby (SPU) with Commissioner Eli Zehner and Alan Kerley (LFPWD) at the KC Water Olympics.



Meter Madness frenzy at the KC Water Olympics.



CWD's Jeff Greer, Steve Butcher, Tyler Howard with King County Subsection Chair, Charlie Sovacool at the KC Water Olympics in Woodinville, WA.

the Conference Program Committee, and Dave Griner with Mac & Jack's Brewery, were our esteemed judges who represented various parts of the water industry, judged samples of water from each contestant's distribution system.

#### Hydrant Hysteria

The Hydrant Hysteria competition closed out the evening. Three teams competed, one from the Northshore Utility District and two from the

Covington Water District (CWD). CWD folks advanced to the section conference! CWD's first place team had a time of 1.35.42 and the second place team, with a time of 1.46.20. The Covington Water District team placed second at the regional conference in Vancouver, made up of Jeff Greer, Steve Butcher and Tyler Howard went on to represent the PNWS-AWWA at ACE Denver.

This is the one event a year that is free to our membership because

of the amazing sponsors we have in our Subsection. We had more than 110+ people register for the event, however, approximately 70+ attended. We're chalking this up to the new location but would like your feedback. If you registered, why you didn't show up and if you didn't sign up, what would make you register and show up?

Thank you all for participating and attending! Thank you to all of our sponsors who made the event possible. They wouldn't happen without your support. For questions related to King County Subsection competitions, please contact Ted Stonebridge at [ted@sallal.com](mailto:ted@sallal.com) or 425-888-3650.

### Events

#### Summer Sipping

The Second Annual Summer Sipping event was held at Flatstick Pub in Pioneer Square on June 22nd, 2019! Summer Sipping was the summer kickoff to prepare our membership for the season of fun and sun. With golf tournament season just around the corner, this was an opportunity to brush up on putting skills. Attendees who showed up enjoyed appetizers, two drink tickets, and a full night of entertainment while they worked their way around Seattle through putts on a 9-hole mini-golf course. Net proceeds will go to the Philanthropic Advisory Committee (PAC) to benefit Water For People, Education and Training fund (E&T) and the Water Equation.

#### YP Site Tour: 2MG Tank Seismic Improvement Project at Sammamish Plateau Water

On Friday afternoon, March 15, 2019, Sammamish Plateau Water hosted a tour of their 2MG Tank Improvement Project. Their 43-year old 2MG Tank is a 62-ft diameter, 89-ft tall steel reservoir with a combined inlet/outlet that has caused stratification issues within the tank, and required structural improvement to its seismic resiliency. Reid Middleton, the design consultant, prepared a design that raised the inlet to improve the water quality and installed a 4-ft thick

concrete mat above the existing steel floor to mitigate seismic deficiencies from a seismic event with a 975-year return period. The tour began with a short discussion by Reid Middleton on the seismic design issues and the selection of the proposed improvements after which a tour of the construction site was provided. A post-tour social was hosted by Reid Middleton at the Pine Lake Ale House.

#### YP Summer Social

King County Subsection and PNWCA partnered to host their summer YP social June 12th at the Optimism Brewery in Capitol Hill. The event was a great opportunity for YPs to network and share experiences from working in the water and wastewater industries. Drinks and food were sponsored by the KC Subsection and PNCWA.

#### Upcoming Events

To sponsor an event, suggest future educational/networking offerings or to sign up for email notification for any upcoming King County Subsection events, please contact, King County Subsection's Program Director, Jim Konigsfeld at [jim.konigsfeld@spwater.org](mailto:jim.konigsfeld@spwater.org). Check the website, <https://sites.google.com/a/pnws-awwa.org/king-county-subsection/events>, for current and future event offerings.

#### Annual King County Charity Golf Tournament September 13th, 2019 at Druid's Glen, Covington, WA

Last year, every hole was sponsored (eighteen) and every registered play spot (25 teams) was accounted for on the day of the tournament! We also had 100% participation! What does this mean? Every registered spot was accounted for the day of the event! What a great achievement! Join us again this year for a fun-filled event that will raise monies for great causes! Interested in playing? Would you like to be a sponsor? Register at <https://conta.cc/2E8s5QQ> or contact Bill Reynolds at 425-827-2014 or [billr@paceengrs.com](mailto:billr@paceengrs.com) with questions!

#### Save the Date for Classes

For 2019, the Subsection plans on offering classes to help our members

meet their CEU requirements. Below are some classes we plan on providing this upcoming year. Please visit <https://sites.google.com/a/pnws-awwa.org/king-county-subsection/events/training> to register for either class. For questions related to classes, please contact Jim Konigsfeld at [jim.konigsfeld@spwater.org](mailto:jim.konigsfeld@spwater.org) or 425-295-3217.

- Day with Department of Health (DOH) – September 18, Seattle, WA
- Water Loss Control Training Workshop – November 7, Issaquah, WA

#### Transitions

Spring brought with it some transformation to the KCSS leadership. Thank you to those whose efforts brought in participation, value and excitement to the competitions, events and classes. We look forward to seeing you at future King County PNWS-AWWA events! Please welcome our new volunteers/slate of officers:

- President – Charlie Sovacool, Consolidated Supply Co.
- Vice President – Sally Mohr, Covington Water District
- Treasurer – Caren Gallion, Covington Water District
- Secretary – Joanie Stultz, Brown and Caldwell
- Program Director – Jim Konigsfeld, Sammamish Plateau Water
- Program Director 1 – Tammy Whipple, Sammamish Plateau Water
- Program Director 2 – Michael Norton, Seattle Public Utilities
- Young Professionals and Student Liaison – Steven Neubauer, Northeast Sammamish Sewer and Water District
- 1-Year Director (Water For People) – Brinlee Finzel, Brown and Caldwell
- 2-Year Director (Competitions) – Ted Stonebridge, Sallal Water Association
- 3-Year Director (Golf Chair) – Bill Reynolds, PACE Engineers, Inc.
- Past President – Thomas Keown, Covington Water District

#### Membership Kudos

##### Subsection Advisory Council Award

Our very own Vice-Chair Sally Mohr was awarded the Subsection Advisory Council Subsection Activity Award for outstanding service to the King County Subsection. In the words of her nominee (which everyone would



Sally Mohr, King County Subsection Vice-Chair with her SAC Award.

echo) "Sally is the glue that holds our subsection together." She leads with energy and enthusiasm. Under her

leadership she has helped to attract a new generation of YP officers from throughout the Section and inspires the officers to perform at a high level of service to benefit our subsection and the PNWS. Congratulations Sally! We're so grateful for your service and proud of your accomplishment as the outstanding PNWS's awardee of 2019.

### Water For People

#### Kenneth J Miller Award

Our very own Water For People Liaison, Brinlee Finzel with Brown and Caldwell (BC), was awarded the Workplace Giving nominee for the Kenneth J. Miller Award for her work to get people involved through BC, as well as for her service within AWWA on the WFP section committee. She is the WFP community of practice leader for Brown and Caldwell, providing education and opportunities to promote WFP, and is

passionate about providing safe and clean drinking water to communities around the world.

### P.E. Licensing

Our very own Secretary, Joanie Stultz, also with Brown and Caldwell, passed the Washington State licensure exam for the Professional Engineer Licensure. A Professional Engineer (PE) is an engineer licensed by a state board of registration to practice engineering. The PE license is the engineering profession's highest standard of competence, a symbol of achievement and assurance of quality. You rock, Joanie!

If you'd like to provide membership accomplishments to be highlighted or have any questions, please reach out to Charlie Sovacool at [charlie.sovacool@consolidatedsupply.com](mailto:charlie.sovacool@consolidatedsupply.com) or Sally Mohr at [sally.mohr@covingtonwater.com](mailto:sally.mohr@covingtonwater.com). 

## Lower Columbia Subsection

### 2019 Beer for Water

On May 17th we held our 6th Annual Beer for Water event at Heathen Brewing in Vancouver, WA. This year's event was very well attended, with over 50 attendees. We offered beer, wine and spirits to go along with a spread of fantastic pizza, provided by Heathen. There were several raffle prizes donated by sponsors that included a weekend getaway to Skamania Lodge, remote airplane, a variety of alcohol and wine, gift cards, camping equipment and adventure passes.

Our event sponsors included: Jacobs, Murray Smith, HD Fowler, Ferguson, Romac, Armorcast, DN Tanks, RH2, GSI Water Solutions & Brown and Caldwell. Together they helped to ensure the event was a success in support of Water For People.

This event was chaired by our new Vice Chair, Ken Portlock. Together with the help of the rest of the Lower Columbia subsection board we hope to expand this event and make it a must attend event next year and into the future.

### 2019 Lower Columbia Golf Tournament

We are in the process of planning our golf tournament as we start our search for sponsors and attendees. The tournament will once again be at the Tri Mountain Golf Course in Ridgefield, WA. The golf tournament will take place on September 6th, with an 8:00am shotgun start. We will be offering a small breakfast bar, lunch, door and raffle prizes plus 18 holes of golf. Check out our website for more details.

### Training Opportunities

#### September and October

We normally offer a training class in June but have decided it would be better in early fall, to avoid conflicts with the Section and ACE Conferences. Look for this training advertisement near the end of August.

#### December 12

December brings our annual holiday training. We of course offer training; including CEU's, but in addition we

have a holiday feast and some door prizes during this training. This class is usually attended very well and has been held at Lacamas Lake Lodge in Camas, WA. Look for more information on this at the end of October.

### Board Member Opportunities

In November, we have our planning meeting for next year's events and trainings. We also discuss possible open board positions and evaluate people interested in filling those roles. We then take the nominees to the December training where we have the attending membership vote in the open positions. If you are interested or would like to be involved at any level please contact us and we can get you connected to our email list and answer questions. We meet once a month in different locations around the Subsection and would be happy to offer that information if you would like to attend. 

Thank You  
Lower Columbia Subsection Board

### South Sound Subsection

The South Sound Subsection started off the year with careful planning for a series of events and trainings throughout the year.

#### 2019 Spring Events

##### Best Tasting Water Competition and Meter Madness

We held our Subsection's **Best Tasting Water and Meter Madness** competition on March 22nd in Puyallup, hosted by Parametrix (big thank you to the Parametrix team for their hospitality!). Everyone had a great time networking and as always, the food and venue were awesome.

Winners of the Best Tasting Water Competition are:

1st Place: **City of Puyallup**



2nd Place:  
**Mountview Edgewood Water Company**



3rd Place:  
**Lake Josephine Riviera Water**



The winner for Meter Madness is **Carlos Camacho** from Tacoma Water:



We also nominated **Jacki Masters** for our Water Drop Award:



##### Waterworks 101 Training

Our Waterworks 101 class was held on April 24th and had a great turnout despite having the class a week prior to the section conference. Those that attended learned everything they needed to know about the water infrastructure and what it takes to succeed in this industry. A great wealth of knowledge and experience presented by the following speakers:

- Dave Roberts from Parametrix
  - Ted Hardiman from Fruitland Mutual Water Company
  - Chris McMeen from Tacoma Water
- Thank you to the speakers for sharing their knowledge and experience in the water industry.

##### Spring Social

This year's annual spring social was held on May 17th at the Rhein Haus located in Tacoma, WA. The social included bocce ball and a few cold ones on us to say "Thank You." Over 25 folks attended, enjoying

good conversation and a fun Friday afternoon of networking. It was great to see many new faces and returning members!

#### 2019 Summer Plans

##### Golf Tournament

This year's **LASA Charity Golf Tournament** registration is open! Come join us for golf at the Oakbrook Golf Club in Lakewood, WA on July 19th. If you're wondering about LASA, it's a community supported agency committed to the prevention of both homelessness and recurrent homelessness by providing assistance to families in need with anything from medical emergencies to helping keep the water running at the tap.

It's not too late to come and join us! Sign up right after you read this article by going to our Subsection's webpage and you'll find the registration for golf link under "Events" on the left side – you won't miss it. Sign up as a solo player, or make up a group of four.

## Subsection Updates

This year we'll be sporting our newly designed "South Sound Sunnies."

Hope to see you there!

### YP Summer Social and Plant Tour

This summer's YP Social will be held in August, exact date pending. We will be touring the Bremerton Plant and possibly meeting up afterwards in a nearby pub. Keep an eye out for the announcement.

### Trainings

Our goal as a Subsection is to provide meaningful training that will benefit every water professionals in the industry. With that in mind, we always plan and tailor our training accordingly. Currently, we are planning for at least two more trainings:

- "Corrosion Control Class" in October
- "21st Century Tools for Water Districts" in November

Another training that is under



development is a DOH Regulatory Roundup, which will happen in 2020. Be on the lookout as we finalize these trainings and put together materials.

### Board Meetings

Our Subsection holds board meetings

every 3rd Wednesday of the month. We welcome everyone to join us and to grow our Subsection together. 

Michael Lubovich  
Subsection President  
[michaellubovich@kennedyjenks.com](mailto:michaellubovich@kennedyjenks.com)



## IN 1929, AMERICAN INVENTED THE MECHANICAL JOINT. TODAY WE BRING YOU ALPHA™.

Few things in the waterworks industry have been as innovative as the Mechanical Joint. Times have changed. And so has AMERICAN. Introducing the AMERICAN Flow Control Series 2500 with ALPHA™ restrained joint ends. Now, you can use the same valve for ductile iron, HDPE, PVC, and even cast iron pipe. Unlike MJ, the restraint accessories come attached, leaving only one bolt on each end to tighten. That saves you time and money.

The AMERICAN Series 2500 with ALPHA™ restrained joint ends – it's the only gate valve you'll ever need.

ALMOST ANY MATERIAL.  
NO TIME AT ALL.



AMERICAN  
FLOW CONTROL  
THE RIGHT WAY

[www.american-usa.com](http://www.american-usa.com)  
PO Box 2727, Birmingham, AL 35207 • Ph: 1-800-326-8051 • Fx: 1-800-610-3569

EOE/Vets/Disabilities  
ALPHA™ is a licensed trademark of Romac Industries Inc. (U.S. Patent 8,894,100)

DUCTILE IRON PIPE FLOW CONTROL INTERNATIONAL SPIRALWELD PIPE STEEL PIPE



## Subsection Advisory Council

Howdy! So many exciting activities this Quarter for your Subsection Advisory Council (SAC) to report on- and that's the way we like it! From the Section Conference competitions to SAC Activity Award Winners to the final subsection officer-only training we have a tremendous amount of momentum carrying our new committee leadership into the next year.

### Conference Competitions – Vancouver Washington 2019

The competitions were an exciting kick-off to the Conference Fun Night and a fitting conclusion to the Friday's sessions. Our emcee extraordinaire was Bryan St. Clair (he knows everybody!) assisted by Pat Van Duser recording the official times.

#### Meter Madness Competition

There were seven contestants who battled for the title of Meter Madness Champion: Chad Peterson, Jack Armstrong, Ryan Treffry, Brinlee Finzal, Denver Taylor Matthew Walker and Carlos Camacho.

Thanks for all of our competitors. However, there can only be one winner!

In the end with a blazing fast time of 33.86 seconds congratulations to **Carlos Camacho** who won the contest. He went on to Denver to represent the PNWS in June at our Annual AWWA Conference (ACE). Many thanks to Gerald Arredondo, City of Salem for coordinating the competition.

#### Hydrant Hysteria

We had a record turn out to compete for the Hydrant Hysteria competition this year in Vancouver with nine teams competing. The winner his year was the **City of Hillsboro** with a time of 1:25.13! The team included Coach Victor Fujinami, Competitors Brady Steinmetz and Kody King. They will be heading to Denver to represent the PNWS-AWWA section well. The other eight teams were the City of Spokane,



Hydrant Hysteria

The City of Tacoma, Skagit PUD, Clark PUD, Nob Hill Water, Covington Water "Blue Team," Covington Water "Wet Bandits" and Suez. All teams fought gallantly and we look forward to an even larger turn out next year! Thank you to all the competitors and the spectators that made this a great event. Many thanks to Pat Everham, City of Richland for coordinating the competition.

#### Tapping

This year we had great weather, good food, and a lot of excited guests to watch five teams compete in the tapping competition.

We had three men's teams, Tacoma, Suez, and Spokane. **Tacoma** had a winning time of 1:21.35 and will be

attending ACE to represent the PNWS. Congratulations to **Coach, Ken Young – Setter, Robert Maurer – Cranker, CJ Blanchard – Copper, Phil Gause.**

We also had two women's teams, Tacoma and Spokane. **Tacoma** had a winning time of 2:25.90 and will be attending ACE to represent PNWS. Congratulations to **Coach, Julie LaVergne – Setter, Jennifer Roth – Cranker, Kim Edwards – Copper, Shantel Shepard.** Many thanks to Loren Searl, City of Spokane for coordinating the competition.

#### Top Ops

Two teams competed in the 2019 PNWS Top Ops competition at the Pacific Northwest Section conference



Tapping



Top Ops



Gimmicks and Gadgets

in Vancouver, Washington. The two teams were from the Northwest Washington Subsection and Northwest Oregon Subsection.

The Northwest Washington team members were Gary Tollefson, Emilia Blake, and Riley Smith. The Northwest Oregon team members were DJ Ezell and Brian Faist.

After a round of twenty-five questions and hard fought battle, the team from **Northwest Washington** won the competition with a final score of Northwest Washington 28 – Northwest Oregon 22.

Thank you to all of our competitors. And many thanks to Doug Priest, City of Salem for coordinating the competition.

### Gimmicks and Gadgets

Gimmicks and Gadgets was over-the-top dramatic. We had one official entry and one other just for the enjoyment of the attendees. **Mike Blake** presented his self-winding spool for locate wire, nicknamed

the 'LZH.' The device is elegantly useful and will improve the efficiency of those who use it! Many thanks to Mike McClenathan, City of Central Point for coordinating the competition.

### Best Tasting Water

Nine regional utilities participated in the 2019 PNWS AWWA Best Tasting Water Competition. Participating utilities were previous winners at their respective subsection competitions. These included Alderwood, Lake Forest Park, Medford, Oak Lodge, Pasco, Puyallup, Springfield Utility Board, Vancouver, and Vera Water and Power. And the winner was... **Vera Water and Power!** Second and third place winners were Puyallup and Lake Forest Park – all within a very tight point spread.

A special thank you to our discerning judges: Brenda Lennox, past president AWWA; Theresa O'Grady, visiting dignitary from Illinois; and Ty Stober, Council



Best Tasting Water

Member, Vancouver, Washington. Thank you to Thomas Bell Games, HDR for coordinating the competition.

### Subsection Activity Awards

Each year, the SAC recognizes one member from each of the three geographic areas within the Section for their extraordinary service to AWWA at the Subsection level. A sincere thanks to all of the nominees for their dedication and congratulations to our 2019 winners. The nominations for those selected are posted on the PNWS SAC website where you can also find applications to nominate someone in your Subsection for recognition at the 2020 conference.

- Chandra Hingston – Joint Water Commission – Northwest Oregon Subsection
- Sally Mohr – Covington Water District – King County Subsection
- Loren Searl – City of Spokane – Inland Empire Subsection



### Winter Trustees

#### Subsection Officer Training

The last Winter Trustees training for Subsection Officers was held on February 21, 2019 at the Heathman Lodge in Vancouver, Washington. The day was filled with informative presentations and interactive activities ranging from Chris Young on the new Membership Engagement initiative, to Kristen Kihs and Rhonda Farmer touting the fundraising coordination of the Philanthropic Advisory Committee, and Jeremay Djajadi showing us how to stay in Constant Contact. Congratulations to the winners of the egg drop competition – which was everyone except for the team voted as Most Artistic. It turns out achieving form and function isn't as easy as it looks!

The Board has elected to combine this training with Section Committee Officer training in 2020. This will promote Section Committee and Subsection Officer cross-pollination and more opportunities for all members. Look for more information in the coming year!

### SAC Area Coordinators

Your SAC has enlisted gregarious Area Coordinators to re-invigorate SAC outreach to the Subsections. Subsection Leaders – look for information soon from your Area Coordinator to facilitate bringing Section resources to you and listening to your ideas and needs to make the entire Section better. This is a vital conversation and we invite you to contact any of the SAC committee members or Area Coordinators with your thoughts.

Elizabeth Edgars  
Sunrise Water Authority –  
Western Oregon Coordinator  
[eedgar@sunrisewater.com](mailto:eedgar@sunrisewater.com)

Tom Keown  
Covington Water District –  
Western Washington Coordinator  
[thomas.keown@covingtonwater.com](mailto:thomas.keown@covingtonwater.com)

Tonya Reiss  
City of Spokane – Idaho +  
Eastern OR/WA Coordinator  
[treiss@spokanecity.org](mailto:treiss@spokanecity.org)

### Leadership Transitions

Your new SAC chair/webmaster is Brian Wilson, supported by Loren Searl as vice-chair/secretary. I can tell you personally from excellent coordination over the past six months that these are savvy leaders with a bias toward action in delivering better involvement in AWWA for all Section members. If you have an interest in participating in this dynamic committee, drop any of us a note.

Brian Wilson  
City of Vancouver – Chair/Webmaster  
[brian.e.wilson@cityofvancouver.us](mailto:brian.e.wilson@cityofvancouver.us)

Loren Searl  
City of Spokane – Vice-Chair/Secretary  
[lsearl@spokanecity.org](mailto:lsearl@spokanecity.org)

Pat Van Duser  
Jacobs Engineering – Past-Chair  
[pat.vanduser@jacobs.com](mailto:pat.vanduser@jacobs.com)

Life is good – get out there and enjoy it! ☀️

Pat Van Duser

## Our concern for the environment is more than just talk

This publication is printed on Forest Stewardship Council® (FSC®) certified paper with vegetable oil-based inks. Please do your part for the environment by reusing and recycling.



## LAC

# A River Runs Through It

**2019 PNWS Conference Recap May 1-3**

A huge thank you goes out to everyone that contributed to the PNWS-AWWA Conference in Vancouver, Washington. Everyone, including the volunteers, speakers, attendees, and vendors made this conference a huge success. The conference was held May 1-3 and all of the sun dancing that everyone did prior to the conference paid off with some great weather for attendees!

## Wednesday

The conference opened on Wednesday with five concurrent preconference sessions sponsored by the Engineering, Water Information Technology, Distribution, Training Coordination and Water Treatment Committees. One seminar included tours of the Clark Public Utilities Carol J. Curtis Wellfield and the City of Vancouver Water Station 1.

For those that chose to hit the links instead of the classroom on Wednesday, Camas Meadows didn't disappoint with great views that came along with the clear, sunny weather. Approximately 120 golfers turned out to test their skills and vie for bragging rights. The team from Core and Main earned the right to brag as the 2019 Champions.

Wednesday night the social festivities kicked off with the tapping contest, meter madness and hydrant hysteria. The Tacoma men's and women's teams won both competitions with times of 1:21.35 and 2:25.90 respectively. The meter madness competition title went to Carlos Camacho of Tacoma Water with a time of 33.86. Top honors in the hydrant hysteria competition went to the City of Hillsboro with a time of 1:25.13. All top finishers went on to represent the PNWS at ACE in Denver, Colorado.

Competitions took place across the street from the convention center in historic Esther Short Park. An open air market theme greeted attendees where beer was provided from two local Vancouver breweries, Heathen Brewing and Loowit Brewing. Food was provided by four local food trucks including a

double decker bus serving barbecue. For those that were able to sample food from all four food trucks congratulations on what was sure to be a full stomach.

## Thursday

Thursday morning kicked off with some early bird sessions followed by opening ceremonies. The award winning Battle Ground Jazz Band performed several songs as attendees entered the opening ceremony. James Dean kicked things off for the conference along with visiting dignitary Theresa O'Grady.

Steven Eberlein of Tipping Point Resilience presented as the keynote speaker and gave a great presentation on earthquake hazard and preparedness in the northwest. Technical sessions followed opening ceremonies throughout the remainder of the day on Thursday.

## Friday

Technical sessions continued throughout the day Friday as well as the Gimmicks and Gadgets and Top Ops competitions. Attendees continued to visit with the 107 vendors in the vendor hall learning about innovative technologies and services available to the water industry.

The Water For People Champagne reception on Friday evening was held with music entertainment provided by the Ukoladies out of Portland. The auction offered conference attendees the opportunity to bid on a wide selection of items, with all proceeds supporting Water For People.

The best tasting water contest was also held during the champagne reception. This year's winner is Vera Water & Power who represented our Section at ACE.

Following the reception, the banquet provided an award-filled dinner presided over by Chair Mel Damewood. Mel passed the gavel to Incoming Chair James Dean who will lead us through the next year as chair of the section. Thank you to Mel for all your work over the last year.

Thank you to all the board members



and their supportive organizations for your service to the Section.

We'll see you all in Spokane next year! 🎉

Tyler Clary  
tyler.clary@cityofVancouver.us

## 2019 Award Winners

### Best Tasting Water:

Vera Water & Power

**Tapping Men:** Tacoma Men – Coach, Ken Young • Setter, Robert Maurer • Cranker, CJ Blanchard • Copper, Phil Gause (1:21.35)

**Tapping Women:** Tacoma Women – Coach, Julie LaVergne • Setter, Jennifer Routh • Cranker, Kim Edwards • Copper, Shantel Shepard (2:25.90)

**Meter Madness:** Carlos Camacho, Tacoma Water (33.86)

**Hydrant Hysteria:** Brady Steinmetz, Victor Fujinami and Kody King – City of Hillsboro (1:25.13)

**Gimmicks and Gadgets:** Mike Blake – Central Point

**Top Ops:** Emilia Blake, Riley Smith and Gary Tollefson – Skagit PUD, NW Washington Subsection

### Subsection Advisory Council

**Awards:** Oregon – Chandra Hingston, Washington – Sally Mohr, Idaho – Loren Searl

**Kenneth J. Miller Award:**  
Erin Nishikawa

**Heart and Soul Award:** Jacki Masters

**Pioneer Award:** Chris Young

**Powell Lindsay Award:**  
Cheryl Capron

**George Warren Fuller Award:**  
Bob Ward

**Outstanding Service to AWWA Award:** Mark Knudson



**TIGG**  
Subsidiary of Spencer Turbine



Dual vessel activated carbon adsorption systems are ideal for municipal water purification. TIGG provides bulk media sales and spent carbon exchange services.

[www.TIGG.com](http://www.TIGG.com)  
sales@TIGG.com

**Branom Instrument Co.**

Since 1947

**BRANOM**  
INSTRUMENTATION

We are a manufacturer's representative that understands solutions for water/waste water applications and have a wide variety of products and solutions to meet your water/waste water needs.

**Process Instrumentation for Control & Monitoring of:**

- Flow
- Level
- Pressure
- Temperature
- Liquid Analytics

**SALES • REPAIR • CALIBRATION • ON-SITE SERVICE • START-UP**

**WWW.branom.com**  
**800-767-6051**

Serving Washington, Oregon, Idaho, Alaska and Montana



Utility Design  
Structural Engineering  
Road Design  
Planning  
Survey  
Stormwater Design  
NPDES Compliance  
Stream Restoration  
Pump Stations  
LID Designs  
Bridge Construction  
Retaining Wall Design  
Water Treatment Facilities  
Water Main Replacements  
Trenchless Pipe Replacements

Kirkland | Wenatchee | Lake Oswego  
[www.paceengrs.com](http://www.paceengrs.com)



## **LOST WATER MEANS LOST REVENUE**

### Municipal Services

#### Comprehensive Leak Surveys

Proactive water conservation and water loss prevention

#### Leak Correlation and Locating

Reduce repair costs & digging dry holes  
GIS mapping to improve system management

#### Experienced Technicians

Local Northwest offices with experienced technicians  
Seattle, Spokane, Portland, Medford, Boise,  
North Idaho and Montana

#### Your Solution to Save Water and Save Revenue



LEAK DETECTION  
WITHOUT DESTRUCTION

**AMERICAN LEAK DETECTION**  
THE ORIGINAL LEAK SPECIALISTS™

**Toll Free Nationwide:  
855.730.5325**

**Saving water and resources since 1974.**

Each office independently owned and operated.

**[www.AmericanLeakDetection.com](http://www.AmericanLeakDetection.com)**

# Frustrated by EPA, States Blaze Ahead on PFAS

EPA's action plan on toxic chemicals found in drinking water did not satisfy several states that plan to push forward with their own policies.

The per- and polyfluoroalkyl substances, or PFAS, plan announced last month promised a decision from the agency within the year on maximum contaminant level regulations for two chemicals, PFOA and PFOS.

Some experts say the regulatory process could take as long as 10 years before a rule is finalized.

And while EPA Administrator Andrew Wheeler said he has "every intention" to set a limit, the agency could come back in a year and decide it won't regulate the chemicals, which have been linked to cancer and thyroid problems.

That is why states should "press on," said Betsy Southerland, the former director of science and technology in EPA's Office of Water.

So far, only New Jersey has a maximum contaminant level, or MCL, for a chemical in the PFAS family.

Citing federal inaction, however, several states have stepped up with their own plans to regulate types of PFAS, including PFOA and PFOS.

At least seven states have policies or have indicated they are pursuing policies stricter than EPA's current health advisory of 70 parts per trillion (ppt) for PFOA and PFOS. They include Alaska, California, Minnesota, New Hampshire, New Jersey, New York and Vermont.



States unsatisfied with EPA's action plan on PFAS in drinking water are pushing ahead with their own policies. Senior Airman Daniel Brosam/Air Force

"I have never seen anything this big happen this quickly, and I attribute this to the ability of communities to organize," said Wendy Heiger-Bernays, a clinical professor of environmental health at Boston University.

"I think the states should be running with it," Heiger-Bernays continued. "By waiting, we are exposing people unnecessarily."

At least eight states have adopted 11 bills related to PFAS, according to Safer States.

"EPA's plan only increases the need for state policies that ensure safe drinking water and healthy communities," said Sarah Doll, the National Director of Safer States. "The bottom line is that we need to stop the use of these harmful chemicals and states are stepping up to do that."

## 'Disappointed but not surprised'

Many states said the action plan overall fell short of expectations and pledged to continue their own efforts to regulate the chemicals.

New York State Department of Health Deputy Commissioner Brad Hutton said he was "disappointed but not surprised at the continual lack of federal leadership to move forward aggressively."

An advisory council last year recommended the state set a maximum contaminant level for PFOS and PFOA at 10 ppt, which would be the toughest standard proposed yet. Hutton said he anticipates a final rule implementing those levels by the end of the year.

When asked if EPA's action plan has any effect on the state's work to regulate the chemicals, Hutton said: "I would say there is no change in the plans at all."

PFOA was discovered in water sources in New York's Hoosick Falls in 2015, according to a map of contaminated sites by the Environmental Working Group and Northeastern University's Social Science Environmental Health Research Institute.

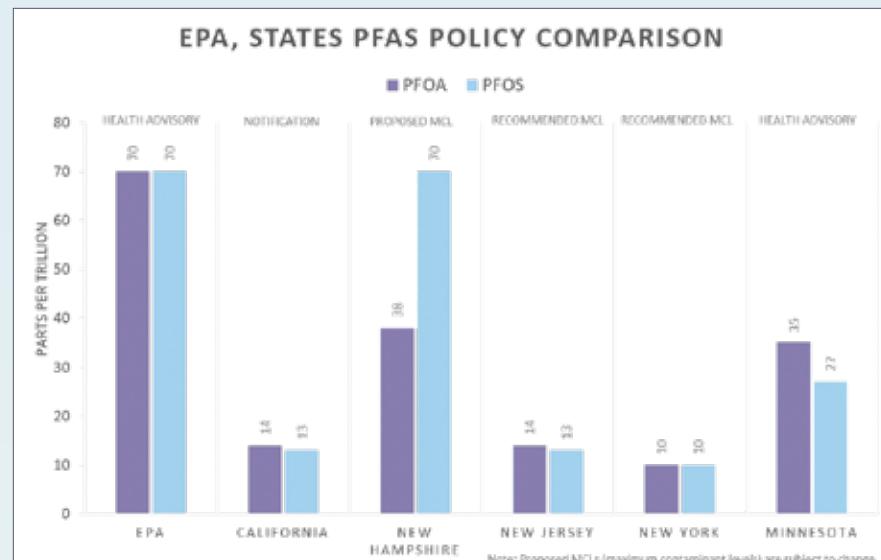
Hoosick Falls Mayor Robert Allen called EPA's action plan "high on rhetoric, low on action."

"The Village of Hoosick Falls stands ready to offer its experience on the issue to advance awareness and promote policy that leads to real action," Allen said in a statement.

Still, some people don't think New York is acting fast enough.

"Despite starting nearly a year and a half ago, New York state has yet to follow through on the promise made by Gov. [Andrew] Cuomo and the Department of Health, in the face of federal inaction, to set drinking water standards for PFOA and PFOS," said Liz Moran, the environmental policy director for New York Public Interest Research Group.

"EPA's repeated inaction underscores the urgency for New York to lead," Moran continued.



*Several states are moving forward with policies stricter than EPA's health advisory for PFOA and PFOS. Claudine Hellmuth/E&E News (graphic); EPA and state agencies (data)*

Next door in New Jersey, officials expect this spring to propose maximum contaminant levels for PFOA and PFOS at 14 and 13 ppt, respectively. Those numbers were recommended by the New Jersey Drinking Water Quality Institute.

The Garden State already has an MCL for perfluorooctanoic acid (PFNA) at 13 ppt.

*Reprinted from Greenwire with permission from E&E News. Copyright 2019. E&E provides essential news for energy and environment professionals at www.eenews.net.*



On average, there are roughly four magnitude-7 or greater earthquakes in the United States each decade, claiming lives, personal property and infrastructure. Loss of life can be minimized through emergency planning and preparedness. So can loss of water pipelines and running water, with AMERICAN's Earthquake Joint System. The system, made of ductile iron pipe - the strongest, most dependable pipe material - is designed to move up and down and side to side to withstand the tremendous underground forces exerted by an earthquake. After an earthquake, you have enough things to worry about. Destroyed water pipelines shouldn't be one of them. Rely on AMERICAN's earthquake pipe system for clean, safe drinking water and dependable fire protection - before, during and after an earthquake.



To learn more, visit: [www.american-usa.com](http://www.american-usa.com) • EOE/Minority/Female/Veterans/Disability



Producer of Quality Sodium Hypochlorite



## Low Salt and Filtered to Outperform Other Sodium Hypochlorite

**DESALT** - Unique centrifugal process removes approximately 64% of the salt

**FILTER** - Filtered to submicron level to eliminate impurities, clogged lines and tank residue

- More Active Product per Gallon
- Lower Usage Cost
- Less Oxygen Formation
- Up to 70% Longer Shelf Life
- Up to 39% Less Chlorate Formation
- Up to 64% Less Perchlorate Formation
- Certified to NSF 60 Standard (Multi-Chlor)

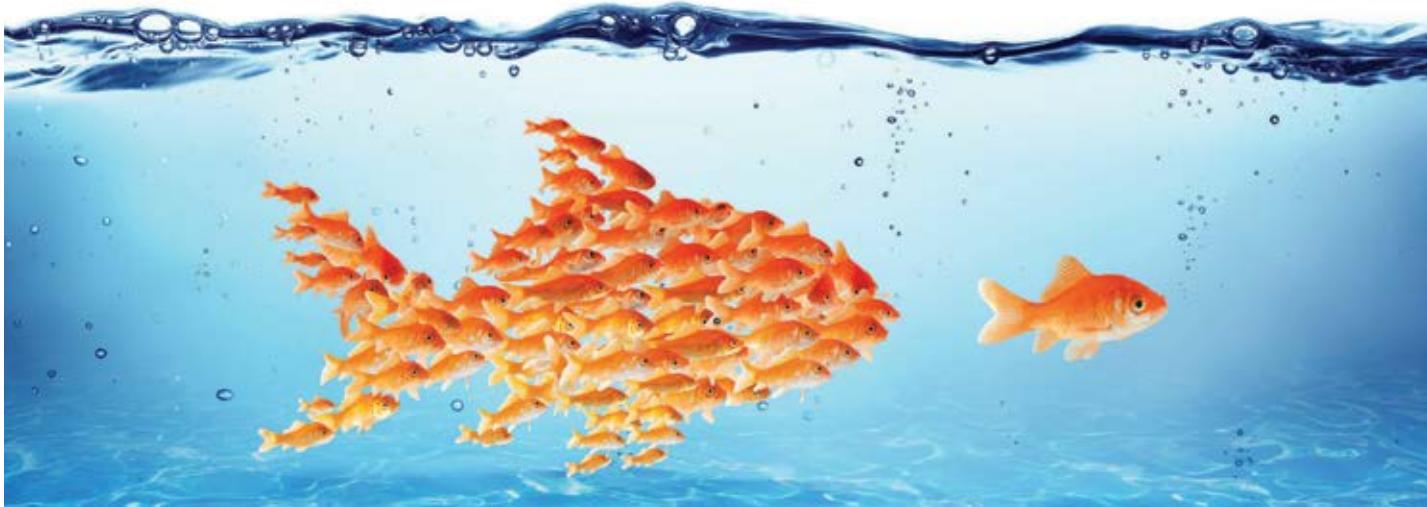


# LEADERSHIP ANNUAL SYMPOSIUM 2019

# Mark Your Calendars

Date: September 26-27, 2019

Location: Yakima Convention Center



## What You Can Expect

### Daily Keynote Speakers

including:



**George Hawkins**

Former CEO and General Manager of D.C. Water



**Sam Davidson**

Founder of Batch and Cool People Care

### Plus...

- **Annual Young Professional Summit**
- **Panel discussions with managers from innovative utilities—**  
*Find out what your peers are doing differently*
- **Daily tracks for:**
  - First-time supervisors
  - Middle managers
  - General managers and public officials

Check out the website for more information and registration:

[www.pnws-awwa.org/pnws-events/leadership-symposium/](http://www.pnws-awwa.org/pnws-events/leadership-symposium/)



# Innovation and Optimization

By Jay MacPherson, Region 2 Plan Review Coordinator,  
Oregon Health Authority, Public Health Division, Drinking Water Services

Hopefully this summer finds us with our systems and coworkers fully functioning on a progressively smoother path. Maybe the warm breezes will bring unseasonable rainfall to make up for the waning snowpack... though without a big bump in raw water turbidity?!

In pursuit of that progressively smoother path, a good number of operators in the Pacific Northwest have applied innovation or optimization to their operations and equipment. These innovations and optimizations have occurred at treatment plants and within distribution systems at facilities scattered about the Northwest.

Innovation seems like a straightforward concept: *modify an existing process or device to perform better*. Innovation could be to come up with a wholly new method or tool that helps do our work faster, at lower cost, with greater safety, and/or improved accuracy. But a lot of us wonder about "optimization."

Optimization is about doing better than regulatory requirements. Take turbidity for example. Conventional and direct filter plants have a regulatory

requirement to keep combined filter effluent below 0.30 NTU 95% of the time. What about keeping turbidity below 0.2 NTU 95% of the time? How about 0.1 NTU 95% of the time?

Organizations that excel are those that develop a culture based on classical virtues: trust, compassion, courage, justice, wisdom, temperance, and hope.

This concept of "doing even better than the standard metric" reminds me of a relatively new book titled *Exception to the Rule: The Surprising Science of Character-Based Culture, Engagement, and Performance* by Rea, Stoller, and Kolp (2017). The authors scoured the world for information about differences between organizations that excel and those that languish. They found a notable difference, in every country they researched... organizations that

excel are those that develop a culture based on classical virtues: trust, compassion, courage, justice, wisdom, temperance, and hope. Organizations that neglect their culture or promote lesser goals do not do as well in the long-run.

If you are interested in innovating and optimizing, think beyond just the mechanical functions and meter readings of making water. Also think about what our people need to be optimized.

To quote Kari Duncan, "Thank you for your commitment to AWWA and to making a better world through better water! Enjoy the season and thank you for reading!" 



Delivering clean water  
reliably for generations  
to come means getting  
creative.

1Water: that's essential.  
That's Brown and Caldwell

BrownandCaldwell.com



Thinking  
of water  
in new ways

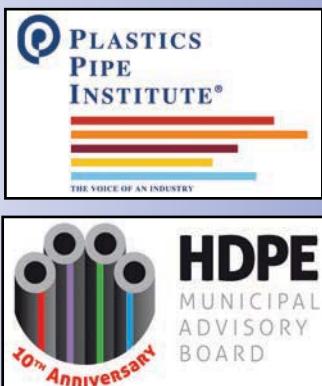
# **HDPE:**

## **The No. 1 Pipe for Seismic Resistance and Trenchless Projects**



With superior seismic resistance, HDPE piping systems are also the material of choice for trenchless installations due to fused joints, flexibility, high ductility, qualified contractors, and many other features and benefits.

Worldwide standards recognize the full benefits of HDPE pipe, and the AWWA and ANSI approved standards now do too!



### **Here are just ten of the many reasons HDPE Pipe is #1**

- Properly designed and installed High Performance Polyethylene (PE4710) provides:
- 1. Safety Factor  $\geq 2$  per AWWA**
  - 2. 100-year design life**
  - 3. Corrosion resistance**
  - 4. Zero-leakage allowance per AWWA M55**
  - 5. Largest internal diameter and largest flow capacity per PPI PACE**
  - 6. C coefficient of 150 (up to 50% higher C than other products)**
  - 7. Improved surge capacity and fatigue life per PPI PACE**
  - 8. DIPS and IPS sizes up to 65 inches**
  - 9. Superior seismic resistance**
  - 10. Lowest life cycle cost per CSIRO**

© 2019 Plastics Pipe Institute, Inc.

For more details, visit PPI and MAB websites [https://plasticpipe.org/municipal\\_pipe/](https://plasticpipe.org/municipal_pipe/)  
**PE4710 Pipe: The Best Solution for Water Systems**

## NEWS RELEASE



# New HDPE Pipeline Provides Potable Water to the North Pole



Nearly 35 miles of HDPE pipe was used to construct the new potable water pipeline for North Pole, Alaska.

**NORTH POLE**, Alaska – May 31, 2019 – The discovery of Sulfolane and PFAS in the local drinking water wells of North Pole, Alaska led to the digging of two new wells outside of the contaminated two by three-mile underground plume. To deliver the fresh water to the nearly 2,200 inhabitants of the city 14 miles southeast of Fairbanks, a high-density polyethylene (HDPE) potable water pipeline was installed. The 181,000 feet of HDPE pipe in various diameters from Pipeline Plastics, LLC (Westlake, TX), provided a leak-free, seismic-resistant supply line. To ensure uninterrupted water service even during Alaska's harsh winters, the HDPE pipe was pre-insulated with polyurethane foam. In all, the \$52.1 million project consists of 35 miles of HDPE pipe, expansion

of the North Pole water treatment plant and a 750,000-gallon potable water reservoir. Service connections will be added once the system becomes operational.

"The integrity of the fused joint is critical in a situation where groundwater contamination is present and has shaken the confidence of the city's inhabitants," explained Camille George Rubeiz, P.E., F. ASCE, senior director of engineering, Municipal and Industrial Division for the Plastics Pipe Institute, Inc. (PPI). "The harshness of the weather with temperatures as low as 40 degrees (F) below zero required a material that could provide a long service life even in this rugged Alaskan environment. The pipe is PE 4710, which is the

highest performance classification of HDPE piping material for water applications. It is tough, durable, ductile, flexible and cost-effective, plus it meets AWWA C906 and NSF-61 standards. Per AWWA M55, fused HDPE pipes provide zero-leakage, conserving water and preventing infiltration of contaminated water as was found at the North Pole." PPI is the major North American trade association representing all segments of the plastic pipe industry.

The continuous and highly ductile HDPE heat-fused joint system helps to protect the entire pipeline from natural disasters, and even earthquakes. During the past 365 days, the area has had 232 earthquakes. "With nearly 34 miles of pipe being installed, it was

imperative that each and every foot be able to withstand any seismic shift at the North Pole."

Matt Theilken of Thermacor Process, Inc. (Ft. Worth, TX), the pre-insulator of the HDPE pipe, stated, "The North Pole water distribution project went through a few iterations prior to the formal tender. We looked at a range of carrier pipe materials, but in the end, HDPE made the most sense for the project. When looking at the life expectancy of a system, HDPE provides the best value and the longevity one would expect from such a large capital expenditure." The pipe diameters were six, eight, ten, twelve and sixteen inches.

The North Pole project team also included, Wolseley Industrial Group/Ferguson (Distributor), Stantec (Design Engineer), Arctic Insulation (Fittings, Accessories) and Exclusive Paving of Fairbanks (Contractor).

Due to the success of the initial installation, an additional 36,000-plus feet of HDPE pipe is being added to the project, which won the Project of the Year Award for PPI's Municipal and Industrial Division. Submissions in each of the association's five divisions are reviewed, evaluated and voted upon by PPI members.

For additional information, go to the Plastics Pipe Institute's website at: [https://plasticpipe.org/municipal\\_pipe](https://plasticpipe.org/municipal_pipe).

### About PPI:

The Plastics Pipe Institute, Inc. (PPI) is the major North American trade association representing all segments of the plastic pipe industry and is dedicated to promoting plastic as the materials of choice for pipe and conduit applications. PPI is the premier technical, engineering and industry knowledge resource publishing data for use in the development and design of plastic pipe and conduit



Plastics Pipe Institute President, Tony Radoszewski, CAE, presents the PPI Municipal and Industrial Division Project of the Year Award for the North Pole water pipeline to Mary Houston of Pipeline Plastics.

systems. Additionally, PPI collaborates with industry organizations that set standards for manufacturing practices and installation methods. 

# Helping Our Community Prosper

We are a public infrastructure engineering firm crafting the communities we live in.

Oregon / Washington / Idaho

[www.murraysmith.us](http://www.murraysmith.us)



Water



Wastewater



Stormwater



Transportation

**murraysmith**



## CELEBRATING 100 YEARS of SERVICE, PURPOSE, and TRUST

### Water Resources

- Water Master Planning
- Surface and Groundwater Supply Development
- Indirect Potable Water Reuse
- Well Siting and Design
- Well Evaluation and Rehab
- Aquifer Storage and Recovery
- Groundwater Modeling
- Pump Station Design and Retrofit
- Reservoir Design and Rehab
- Pipeline Design and Rehab

### Treatment

- Iron and Manganese
- Arsenic
- Hydrogen Sulfide
- Ammonia
- Volatile Organic Compounds
- PFAS
- Surface Water Treatment
- Groundwater Treatment
- Corrosion and Scale Control
- Disinfection
- Taste and Odor Evaluations/Control

Federal Way, WA | Seattle, WA | Portland, OR | Eugene, OR | Nationwide  
253.835.6459 | [kennedyjenks.com](http://kennedyjenks.com)

### FCS GROUP:

Effective public sector financial, management and economic solutions

For more information go to

[www.fcsgroup.com](http://www.fcsgroup.com)

(425) 867-1802



Utility Rate and Fee Consulting



Asset Management Consulting



Financial Planning and Analysis



Economic Services

**FCS GROUP**  
Solutions-Oriented Consulting

# WATERmatters

To reach water industry professionals in Washington, Oregon and Idaho through *Water Matters* magazine and its targeted readership, please contact me at:

**DARRELL HARRIS**

1-877-985-9793

[darrell@kelman.ca](mailto:darrell@kelman.ca)



**SHANNON & WILSON, INC.**  
GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS



### INTEGRATED SERVICES FOR PUBLIC WORKS PROJECTS

Geotechnical Engineering

Seismic Engineering

Hydrogeology

Tunneling

Instrumentation

Geologic Hazard Evaluations

Construction Dewatering

Environmental Remediation

Natural Resources

Surface Water

Seattle (HQ) | Tri-Cities | Portland | Anchorage | Fairbanks | Sacramento | Los Angeles | Denver | Salt Lake City | Saint Louis | Madison | Jacksonville  
206/632-8020 | [www.shannonwilson.com](http://www.shannonwilson.com)

## Reach our Advertisers

<b>Company</b>	<b>Page</b>	<b>Phone number</b>	<b>Web address</b>
AMERICAN Ductile Iron Pipe	38	205-325-7701	<a href="http://www.american-usa.com">www.american-usa.com</a>
AMERICAN Flow Control	31	205-325-7701	<a href="http://www.american-usa.com">www.american-usa.com</a>
American Leak Detection	36	888-777-5325	<a href="http://www.americanleakdetection.com">www.americanleakdetection.com</a>
Badger Meter, Inc.	13	800-876-3837	<a href="http://www.badgermeter.com">www.badgermeter.com</a>
Blue-White Industries, Ltd.	47	714-893-8529	<a href="http://www.blue-white.com">www.blue-white.com</a>
Branom Instrument Co.	36	206-762-6050	<a href="http://www.branom.com">www.branom.com</a>
Brown and Caldwell	41	206-624-0100	<a href="http://www.brownandcaldwell.com">www.brownandcaldwell.com</a>
Canyon Hydro	3	360-592-5552	<a href="http://www.canyonhydro.com">www.canyonhydro.com</a>
Carollo Engineers	8	800-523-5826	<a href="http://www.carollo.com">www.carollo.com</a>
FCS GROUP	45	425-867-1802	<a href="http://www.fcsgroup.com">www.fcsgroup.com</a>
Ferguson Waterworks	23	800-283-8803	<a href="http://www.ferguson.com/waterworks">www.ferguson.com/waterworks</a>
Force Flow	16	800-893-6723	<a href="http://www.forceflow.com">www.forceflow.com</a>
GSI Water Solutions, Inc.	14	503-239-8799	<a href="http://www.gsiws.com">www.gsiws.com</a>
HASA, Inc.	39	661-259-5848	<a href="http://www.hasapool.com">www.hasapool.com</a>
Intuitech, Inc.	25	801-487-9255	<a href="http://www.intuitech.com">www.intuitech.com</a>
IPEX USA LLC	12	800-463-9572	<a href="http://www.ipexna.com">www.ipexna.com</a>
Kennedy/Jenks Consultants, Inc.	45	206-753-3400	<a href="http://www.kennedyjenks.com">www.kennedyjenks.com</a>
Murraysmith	44	425-252-9003	<a href="http://www.murraysmith.us">www.murraysmith.us</a>
Neptune Technology Group	4	800-633-8754	<a href="http://www.neptunetg.com">www.neptunetg.com</a>
NO-DES, Inc.	7	559-799-8461	<a href="http://www.no-des.com">www.no-des.com</a>
Owen Equipment Company	20	503-255-9055	<a href="http://www.owenequipment.com">www.owenequipment.com</a>
PACE	36	425-827-2014	<a href="http://www.paceengrs.com">www.paceengrs.com</a>
Parametrix	14	360-850-5307	<a href="http://www.parametrix.com">www.parametrix.com</a>
Pittsburg Tank & Tower Company Inc.	13	270-826-9000	<a href="http://www.pttg.com">www.pttg.com</a>
Plastics Pipe Institute	42	469-499-1055	<a href="http://www.plasticpipe.org">www.plasticpipe.org</a>
Sensus	9	206-331-1228	<a href="http://www.sensus.com">www.sensus.com</a>
Shannon & Wilson, Inc.	45	206-632-8020	<a href="http://www.shannonwilson.com">www.shannonwilson.com</a>
SUEZ Water Advanced Soltions (Utility Service Co.)	21	855-526-4413	<a href="http://www.utilityservice.com">www.utilityservice.com</a>
SYBIS	26	206-686-8463	<a href="http://www.sybissolution.com">www.sybissolution.com</a>
Tesco Controls, Inc.	48	916-395-8800	<a href="http://www.tescocontrols.com">www.tescocontrols.com</a>
The Ford Meter Box Company, Inc.	26	260-563-3171	<a href="http://www.fordmeterbox.com">www.fordmeterbox.com</a>
TIGG, LLC	36	724-703-3020	<a href="http://www.tigg.com">www.tigg.com</a>
Tri-State Seminar	11		<a href="http://www.tristateseminar.com">www.tristateseminar.com</a>
Washington Water Service	2	877-408-4060	<a href="http://www.wawater.com">www.wawater.com</a>

# ProSeries-M®

QUALITY • PERFORMANCE • INNOVATION



## M-3 PERISTALTIC METERING PUMP

BUILT RUGGED  
ENOUGH TO HANDLE  
THE MOST DEMANDING  
MUNICIPAL WATER AND  
WASTEWATER TREATMENT  
ENVIRONMENTS.



## THE ALL NEW **MS-6** ULTIMATE CHEMICAL FEED SENSOR

MEASURING CHEMICAL FEED IS A  
CRITICAL FACTOR IN WATER AND  
WASTEWATER TREATMENT.

Blue-White is  
ISO 9001:2015  
Certified

PRECISION CHEMICAL METERING FOR OVER 60 YEARS  
**Blue-White®** [www.proseries-m.com](http://www.proseries-m.com) • [www.blue-white.com](http://www.blue-white.com)  
5300 Business Dr., Huntington Beach, CA 92649 USA • 714-893-8529 • [sales@blue-white.com](mailto:sales@blue-white.com)



## At TESCO it's about building trust, reliable systems, and long-term relationships.

---

End-to-End **System Integration Solutions** Tailored to Your Needs

Our complete suite of vertically-integrated professional services, manufacturing, and installation capabilities helps you to manage schedule, quality, performance risk, and final outcomes.

- ✓ Control System Architecture / Engineering
- ✓ Custom Fabrication & OEM for I&C / MCC / Power
- ✓ Secure Network & Communication Infrastructure
- ✓ PLC Programming
- ✓ SCADA-HMI System Design
- ✓ Commissioning & Start-up
- ✓ 24/7/365 Technical Support

**Tesco<sup>®</sup>**  
**CONTROLS, INC.**



To Find Out More About TESCO Products and Services:  
<https://tescocontrols.com>    (916) 395-8800