



American Water Works Association
Pacific Northwest Section

WINTER 2023

WATER *matters*

The Official Magazine of the
Pacific Northwest Section – AWWA

PNWS-AWWA

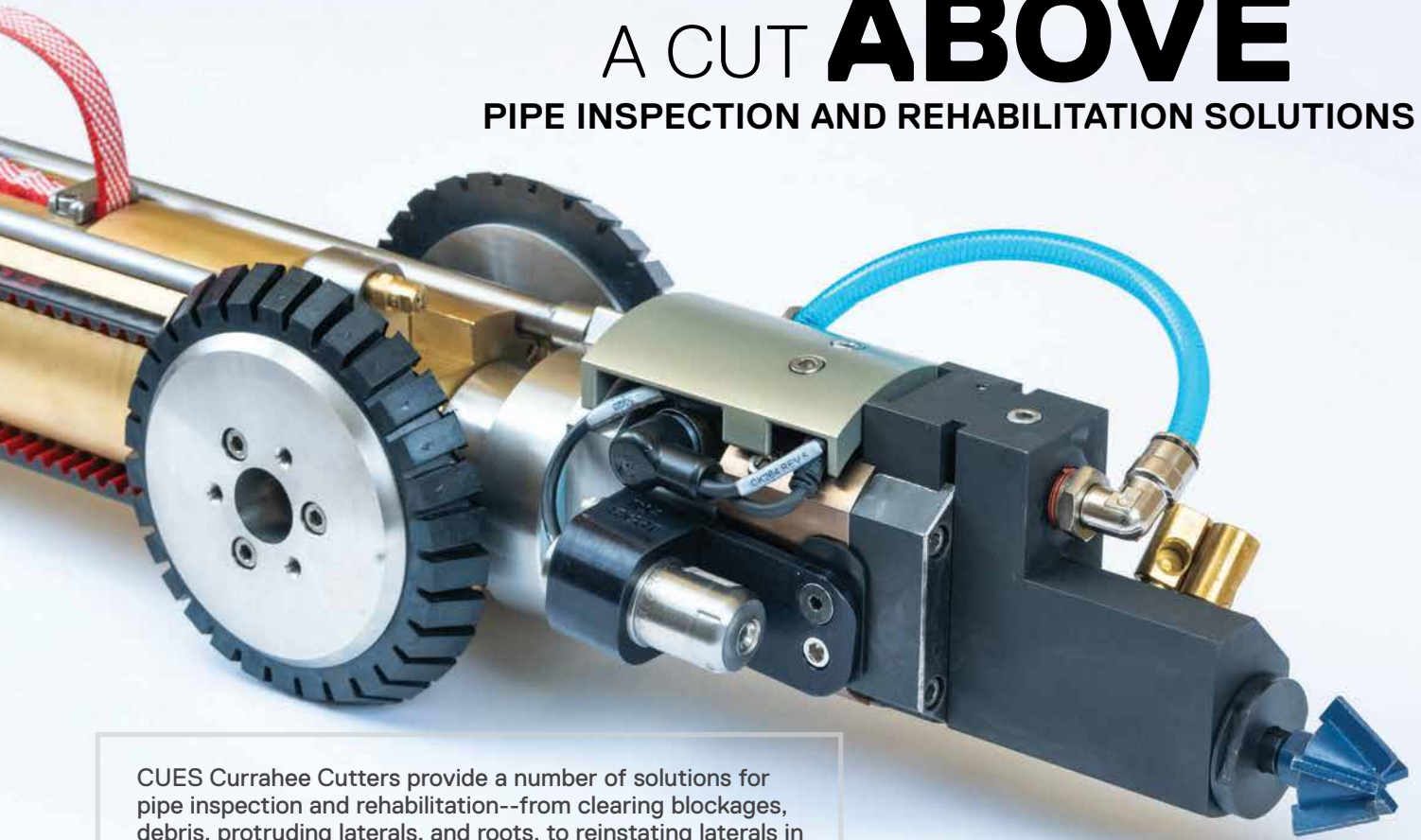
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- ▶ Committee Reports
- ▶ Subsection Updates

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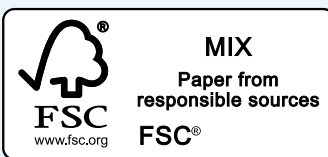
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Reflecting on a Successful Year

As we find ourselves in the holiday season, I thought it would be appropriate to reflect on all the things we have to be thankful for. Looking back at 2023, PNWS-AWWA has many things to be grateful for, and the first thing would be a record-setting Spring Conference. The 2023 Spring Conference held in Kennewick, WA, was an overwhelming success, and with that success came the ability to focus on member value moving into 2024. Our 2024 budget reflects that member value stance and is supported by your Board as well as your incoming Chair-Elect, Nick Belmont.

Summer brought the Board Workshop in Union, WA. Beautiful days and serene nights were the incredible setting as our Board worked on communication styles and skills that will help us develop the next generation of leaders for our Section. This was highlighted throughout the training and was delivered by improvisational comedian Pat Dwyer. Pat's innovative style was well received and proved to be quite engaging for our Board.

Fall brought us to Lake Chelan, WA, for the Fall Training and Trustee Meeting, which I am happy to report was a great success. That success was largely due to the amazing session led by Jude Grounds and Cole Benak. Focusing on Water 2050, Jude and Cole led robust discussions about the



future of our industry and the long-term issues and direction of the American Water Works Association. Our Section is most certainly in good hands moving forward into 2024 and beyond.

Finally, I would like to wish all of you a wonderful holiday season filled with peace, joy, and well-deserved rest. Your dedication to providing clean, safe, and reliable water is invaluable to our communities. Thank you to all PNWS-AWWA members and volunteers for the vital work throughout the year. Looking forward to all that 2024 has to offer, including the 2024 Spring Conference in Spokane, WA. 📅

Dan Sleeth
PNWS-AWWA Section Chair

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Greetings from the Association

As 2023 rapidly winds down, the Association convened the 2023 Council Summit in Denver, CO. The guest speaker for the summit this year was Gigi Karmous-Edwards; she delivered a very detailed and informative presentation on the attributes of a 'Smart City' and how technology and artificial intelligence can be used to help shape and guide the future of the water industry. Gigi's presentation ties in with the Water 2050 theme of exploring new ideas for a sustainable water industry in the future. Several of the thoughts presented will be at the forefront of this initiative as it continues to move forward and is more clearly defined.

One of the other topics discussed at the Council Summit was the Association's 2030 Strategic Plan. Strategic Planning Committee Co-Chairs David Rager and Keisha Thorpe held sessions with each of the Councils to discuss concerns and thoughts concerning the plan. The Committee will develop a draft plan in November and share the plan with the rest of the Board of Directors at the upcoming Winter Board Meeting held January 11-13, 2024, in Sedona, AZ.

In my last article, I spoke briefly about the reformation of the New England Section, and I can share that the efforts to rebuild the Section are going well, and the Association has appointed Chi Ho Sham as the Chair of the New England Section on an interim basis to get everything reestablished.

The Association's finances remain strong and are currently expected to end about \$400,000 above the year-end estimate. This is reflected in attendance at Association events and conferences, being 103% above the year-end target number of 35,000 attendees, illustrating the value of membership AWWA offers. Membership numbers are slightly below the year-end target of 50,500 but are holding steady, with only a small decline in membership since the end of August.

On the Section level, I encourage you all to get involved through your local Subsection or one of the many committees in the Section and be sure to vote for the next slate of candidates that will lead this Section in new and exciting directions over the next couple of years.

Lastly, although the deadline will have passed for 2023, consider nominating one of your fellow PNWS-AWWA members for one of the many awards, such as the Operators Meritorious Service, the Heroism, or the Diversity Equity and Inclusion Award, that are offered through the Association. There is no better way to honor and show your appreciation for a colleague than a nomination for one of these awards.

For a complete list of available awards, please reach out to me or anyone on the Section Nominating Committee.

Have a blessed and happy holiday season. 🙏

James Dean
PNWS-AWWA Association Director

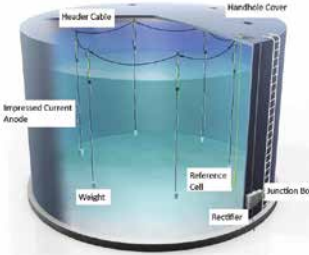
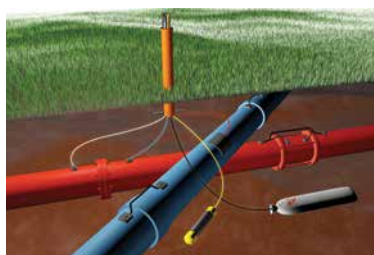


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Conference Program Committee

The draft technical session for Spokane 2024 is now posted on the Conference Program Committee webpage.

Continuing education units (CEUs) applications are being processed. We expect 2.0 Water Operator/Treatment CEUs from Oregon and Washington. This year, we expect to have at least nine hours of Wastewater Operator/Treatment CEUs, including a pre-conference site tour.



Use the QR Code to visit the Conference Program Committee webpage. Then click 'Meetings' to view the Spokane 2024 Draft Technical Session Schedule.


Volunteers are Still Needed

Many volunteers will be needed in addition to speakers.

- The Program Committee is actively seeking room assistants to make sure that all session attendees are checked in and out so that attendance is recorded for the CEU certificates. Training for this task is provided at the conference. If you are interested in volunteering as a room assistant, please contact Ray Foster at rfoster@spokanecity.org.

Complimentary Registration Spokane 2024 Conference

Registration opens in the first week of January 2024. Speakers, moderators, and room assistants are eligible for complimentary registration on the day that they volunteer.

We look forward to seeing you in Spokane next year! 


Diversity & Inclusion (D&I) Committee

Committee Mission: *To foster a welcoming and inclusive AWWA culture that champions meaningful institutional and individual change regarding diversity and equity in the water industry. The Committee is supported by the National AWWA Diversity & Inclusion Committee, which provides support nationally for Sections.*

At the PNWS Fall Officer Training, Tim Loosier and Joanie Stultz co-presented some of the work done by the D&I Committee. Their presentation focused on the D&I Committee's:

- Macro and Micro Goals;
- 2023-2024 Focus Areas; and
- Call to Action – invitation to Section communications/events coordinators.

Join Us for Our Monthly D&I Call

The D&I Committee meets monthly on the first Wednesday of every month from 11 am to 12 pm on Microsoft Teams. These meetings start with introductions and an icebreaker question to help us know one another better. All are welcome to join. Contact Chair Gina Hortillosa for meeting information at ghortillosa@pnws-awwa.org. 



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Education & Training Fund Committee

Education and Training Fund Update – Please Consider Donating

The Education and Training Endowment Fund includes many donations in the name of an individual or subsection. In order to begin paying out annual scholarships, donations must reach or exceed \$10,000.

Several dedicated funds are short of the \$10,000 level! Would you or your subsection like to donate to increase a named fund to \$10,000? Here is a list of named funds short of the minimum amount to pay out an annual scholarship:

- **Subsections**
 - o Northwest Oregon
 - o South Sound
 - o Blue Mountain
 - o Central Washington
 - o Cascade to Coast
 - o Eastern Oregon
- **Individual/Family/Others**
 - o Bob Willis
 - o Glen Yake & Joe Custer
 - o Greg Kirmeyer
 - o Dan Bradley
 - o Water System Consultants

If you'd like more information or would like to donate, please contact Heather Pennington at hpenning@cityoftacoma.org, Tom Keown at thomas.keown@covingtonwater.com, or Jeff Lundt at jeff.lundt@kingcounty.gov.

New PNWS Operator Certification Scholarship

The PNWS Education & Training Fund Committee is pleased to announce a new scholarship dedicated to operator training and certification. The purpose of this scholarship is to provide financial assistance to people within the geographic area of the Pacific Northwest Section of AWWA who are studying for or seeking to obtain, renew, or upgrade certification as an operator in the drinking water industry.

Many utilities or employers will cover the cost of training required to maintain mandatory certifications for their employees. However, the number of CEUs required to maintain certification

is usually far less than what is required to upgrade to higher certifications, and employers may choose not to pay for additional non-mandatory training. Traditional scholarships to accredited post-secondary schools often don't meet operator continuing education needs or models. This scholarship is intended to fill that gap to help operators obtain the incremental education they need to maintain and advance their careers by upgrading or obtaining additional water industry certifications.

Certification areas eligible for scholarship assistance include water treatment, water distribution, small water systems, cross-connection control, and backflow assembly tester.

Eligible expenses for the Operator Certification Scholarship Fund include:

- Coursework at accredited colleges, vocational schools, or apprenticeship programs that meets waterworks relevancy continuing education criteria in the state where the school/program is located.
- Initial certification application/exam fees for individuals acquiring their first water industry certification when such fees are not covered by an employer or included in a training or apprenticeship program. Funds will be awarded on a reimbursement basis following proof of payment of certification application and exam fees. Reimbursement will be limited to one per individual, regardless of pass/fail exam status. Certification re-application, additional certification,

certification upgrade, or renewal fees are not eligible for reimbursement.

Continuing education training that meets the waterworks relevancy criteria in the state(s) in which the operator holds certification when an employer does not pay for training. Such training may include classes, short-schools, conference technical programs (at the field operator rate where available), or online training offered by industry associations (e.g., AWWA, Rural Water, Rural Community Assistance Partnership, Inter-tribal Councils, Association of State Drinking Water Administrators). Funds for training sponsored by other organizations will be reimbursed following proof of payment of registration fees and a copy of the certificate of completion.

The Operator Certification Scholarship Committee is currently finalizing the processes and application form and working on an outreach plan and intends to have it in place by the first of the year. Funding for this program will be from a large, earmarked donation to the E&T Fund. Anyone wishing to contribute to the Operator Certification Scholarship Program and boost its outreach should contact the E&T Committee.

We're also seeking 4-6 people to help review scholarship applications, including at least one member from each state in the PNWS. If you're interested in volunteering or would like more information, please contact Cheryl Capron at ccapron.po@gmail.com or Jeff Lundt at jeff.lundt@kingcounty.gov.

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Engineering Committee

Willamette Water Supply Program Treatment Plant Site

In September, the Engineering Committee organized a tour of the Willamette Water Supply Program's (WWSP) Water Treatment Plant Site. WWSP and its contractor's staff provided an informative tour of in-process structures and staging areas. Over 15 AWWA members attended the tour, and many stayed afterwards for a happy hour nearby. Thank you again to the WWSP for coordinating this amazing event!

Excellence in Engineering Call for Entries

The PNWS Engineering Committee has opened the call for entries for the 2024 Excellence in Engineering Awards. These awards recognize excellence in engineering for water

supply, treatment, conveyance, and planning projects. Persons, agencies, consultants, contractors, and water utilities who have recently completed a water project for a water supply utility or agency in Idaho, Oregon, or Washington are encouraged to apply.

Categories

Projects may be submitted in the 'Large Project' (>\$5 million construction), 'Small Project' (<\$5 million construction), or 'Engineering Planning' project categories.

Streamlined Application Process

Electronic nominations will be limited to a three-page project narrative providing a brief description of the project and why it demonstrates 'Excellence in Engineering,' with the opportunity

to submit additional supporting material as applicants see fit.

To be considered for the 2024 Excellence in Engineering Awards, the Committee will be looking for outstanding water-related engineering projects which have shown:

- Innovative technologies or approaches
- Overcoming difficult challenges
- Sustainability elements (includes resource sustainability or cost-effectiveness)
- System resiliency considerations (seismic, flood, system redundancy, etc.)

The entry deadline for the 2024 Excellence in Engineering Awards is January 6, 2024.

The nomination form and submission requirements can be obtained by contacting Cameron Lee at cameron.lee@greshamoregon.gov. Please nominate one of your projects or someone else's that you feel is deserving of an award.

Committee Meeting Activities

The Engineering Committee is wrapping up key planning tasks in preparation for the Annual Conference. We covered last year's lessons learned, reviewed abstracts, and identified moderators. Looking ahead, the Committee is evaluating topics for a spring training event. This year, we've set aside time during our meetings for a new informal portion of the agenda where industry professionals and vendors can share technical updates or information. To date, the Committee has hosted presentations on corrosion protection and earthquake-resilient ductile iron pipe. Come and attend our next meeting for more!

Committee Meeting Schedule

Engineering Committee meetings are held from 12 pm to 1 pm (PT) on the first Wednesday of each month. If you'd like to join the Committee, please get in touch with Dan Shafar at dan.shafar@jacobs.com. 



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Member Engagement and Development Committee (MEDC)

MEDC Purpose: To support the Pacific Northwest Section of AWWA (PNWS) in the engagement, retention, and growth of membership

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

Membership Challenge – We Need You!

We are approaching the end of the year and are looking for your help in meeting our Section membership goal! If the Association ends the year with a positive net growth of 1% or greater, then each Section that achieved a 1% positive net growth within their own Section shares the payout of the remainder of \$25,000. PNWS's growth goals are as follows:

- Membership need by December 31 for 1% growth: 30 members
- Membership need by December 31 for 3% growth: 80 members

Mentorship Program Update

We're excited to officially kick off the 6th Annual Mentorship Program. Building on the program last year with 17 mentor/protege pairs, we're excited to share we have met our goal with 25 mentor/protege pairs, for a total of 50 new participants. We are in the process of determining the best match for all the mentor/protege pairs. Thank you to all who responded, and we look forward to kicking off the 2023-2024 program, where we will develop relationships with fellow AWWA members and network and provide invaluable job and leadership skills. Mentor pairs will meet about once a month over the next six months, with sessions on various career development topics. If you are interested in learning more about this program, feel free to contact our Mentorship Program team – Kyle Wong at kyle.wong@spwater.org or Doug Schlepp at dschlepp@rh2.com with any questions.



Honoring our 50-year members!

In 1973, the Miami Dolphins defeated the Washington Redskins in Super Bowl VII to complete the only perfect season in the NFL, Richard Nixon was sworn in for a second term and ended the participation in the Vietnam War, the World Trade Center was officially opened, Secretariat won the Triple Crown, and three people became members of the AWWA. While some things change, others do not. These three have been awarded **AWWA's Golden Drop** for continuous membership over the past 50 years: **Robert Walker** of Boise, ID, **Mark Spahr** of Anacortes, WA, and **Richard Melton** of Redmond, WA. We were able to reach the latter two and now present both their journeys to membership and career summary to celebrate their contribution to our Section. Please join us in celebrating all three. If you know Robert, please send him our best.

Mark Spahr, PE, studied at the



University of Washington (Go Dawgs!) and received a BS (1970) and MS (1972) in environmental engineering. He became a member while working as a Regional Engineer under

Bob Wubbena at the Washington State Department of Social and Health Services, where he was the first administrator of the State's Mandatory Certification Program for Water Works Operators. Subsequently, he became the General Manager and Operator of Water District 82 (now the Sammamish Plateau Water and Sewer District), while it grew from 1,000 to 4,000 customers.

Responsible for all aspects, including operations, construction, emergency response, engineering, planning, and personnel. He served for over a decade and still maintains his WDM4 operator certification! He moved a bit south and down the hill to serve as the Public Works Director in the adjacent City of Issaquah for a couple of years. He was responsible for water, sewer, streets/bridges, traffic, development review/construction, and storm drainage/flood control. In the early 1990s, Mark moved north to become the Director of Public Works and County Engineer for Snohomish County, with a staff of 150 people. A couple of years later, he began work for the PUD No. 1 of Snohomish County, where he served in four positions, including Manager of Planning and Special Projects, Manager of the Water Utility, Senior Manager of

Kudos to Robert, Mark, and Richard for their contributions to the water industry, the communities in which they served.

Water and Hydro Engineering, and Senior Manager of Water and Hydro Maintenance/Operations. The utility served 14,500 customers and provided wholesale service to two other cities. Under his leadership, a \$5.5 million regional water supply project was conceived, designed, and completed, which also involved forming over a dozen local utility districts providing safe drinking water to adjacent communities. In 2002, he retired for the first time, but he also became a FEMA

Disaster Assistant reservist, where he was deployed to over eighty major disasters/emergencies nationwide in twenty-two states. In addition to restoring public infrastructure damaged by hurricanes, floods, wildfires, and other natural disasters, Mark spent a few summers back at Snohomish County PUD No. 1 as a field inspector. In 2003, he returned to his roots and to work when he became the Water System Manager and Operator of the Holiday Hideaway Water System on Guemes Island in the San Juans of the Puget Sound. He developed a comprehensive water system plan for the community of 160 homes. In 2005, he hung up his PUD hard hat and boots; in 2010, he left the Holiday Hideaway homeowners in much better shape than when he started. In 2018, he truly retired from FEMA. Over thirty-five years in public works management, design, engineering, planning, permitting, contract administration, construction, inspection, operations, and regulations, he was actively involved in water, wastewater, hydropower, storm drainage, flood control, roads/streets/bridges, ferry operations, development review, and solid waste at the federal, state, county, city, and utility district levels.

During his service, Mark was certified as a WDM4 – Water Treatment Operator and Cross Connection Control Specialist. He has held numerous elected and appointed positions in several professional organizations, including the AWWA.

Mark has been married for over fifty years! He has two sons; Shane works for WSDOT, and Scott, who received a PNWS-AWWA



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Scholarship, works in Mark's old stomping grounds at the Snohomish County PUD No. 1 within the hydroelectric program.

AWWA has always been important to Mark, and he says, "Water People are Good People" - sounds like a great title for a movie!

Richard Melton, PE, received his BS



(1972) in civil engineering from Cal-Poly Pomona, CA, and an MS (1975) in environmental engineering from Colorado State University. At Cal-Poly, his

Water and Wastewater Engineering professor, Dr. Morales, introduced Richard and other interested students to AWWA. During the late 60s and early 70s, the Vietnam military draft played a key role in Richard's life decisions. His draft number was 15, which meant he would be drafted without a 2S deferment from a college or a university. While at school, he attended the funerals of three buddies returning from Vietnam. Richard wanted to find another way to serve his country and avoid the same fate. He discovered that working in the US Public Health Service, PHS (1 of 8 uniform services in the US) would satisfy his draft requirements and allow him to apply his engineering skills. On a Thursday in 1972, during finals week, he accepted a position in the PHS in Barrow, Alaska (the northernmost tip in the US and now known as Utiqigvik). He was commissioned as an Ensign Officer over the phone from the PHS in Washington, DC. On Friday, the following day, he skipped his mandatory draft physical date. On Monday, he presented his Western Union telegram from the PHS to the draft office, relieving him of his draft obligations. Within three weeks of

graduation, he arrived in Barrow via the main PHS Engineering office in Anchorage. Within a few months, he was detailed to Wainwright, a small Eskimo village West of Barrow, and was tasked to complete the village's first water supply system before winter freeze-up. Richard had to overcome material shipping issues with no telephone communication, except for a ham radio, no water or sewer infrastructure, and no restaurants or hotel accommodations. The ink on his diploma was still wet, as he was challenged to purchase and fly in a number of gas-powered pumps, liquid chlorine supplies, and hire local laborers with snow machines to fill and put into operation a newly installed water reservoir. He completed his task in Wainwright and the preliminary field engineering work in Barrow for a community water system. He was then transferred for a three-year assignment in Kotzebue, located just above the Arctic Circle. At the same time, he convinced his lovely California-born soon-to-be wife that life in Alaska was a wonderful way to begin their journey together. In Kotzebue, he managed the installation of pumps/controls for the city's dam intake structure, a 1.5-mile water transmission pipeline to the city's reservoir, Alaska's first arctic suspension bridge for a water transmission main, a water filtration plant, and various water/sewer mains and pump stations throughout the city. He also managed the installation of water/wastewater facilities in several villages around the Kotzebue region, negotiated with Inuit elders, dealt with extreme weather conditions, and used his AWWA connections to better understand the best methods of water supply and the latest available materials. He applied and received a partial EPA stipend to complete a master's program at Colorado State University, where he designed and installed a working pilot filter for the city of Fort Collins Water Treatment Plant. After graduation he accepted

a consulting job in LaGrande, OR, which was short-lived due to an economic recession. Richard decided to return to the PHS, now in Minot, ND. For the next three years, he managed the installation of a number of community and individual home water/wastewater systems under the Aberdeen Indian Health Service (IHS) home office, employing the planning, design, and construction motto "Get it done." Richard next accepted a transfer to the Seattle area under the Portland IHS home office and designed and installed community water/wastewater facilities for the communities of Lummi, Nooksack, Upper Skagit, Swinomish, and PortGamble Reservations along with a number of individual home sites. About six years later, Richard transferred to the Seattle Division of Engineering Services (DES-a division of PHS), constructing health clinics, hospitals, homes, and schools in Alaska and many Central States.

This was the first time he worked with a team rather than alone, designing and managing projects. He rose to a Branch Chief position

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in charge of a ten-member team of engineers and architects. During his last few years with DES, he managed a \$85 million design/construction renovation project for the National Institutes of Health in Hamilton, MT. Richard retired from DES in 2005. In 2011, he was encouraged to run for the Union Hill Water Association Board of Trustees. Shortly after becoming elected, the General Manager's (GM) position became vacant, and he assumed the GM role and also became their in-house engineer. In 2016, he retired for the second and last time.

Kudos to Robert, Mark, and Richard for their contributions to the water industry, the communities in which they served, and their commitment to the AWWA over these past 50 years.

Need help with reaching your Subsection members? Let us know! We can pull member lists that are specific to your Subsection and renewal date to outreach specific members. Please reach out to the MEDC Chair, Joanie Stultz, at jstultz@brwnncald.com or visit us at www.pnws-awwa.org/member-groups/committees/membership-committee.

Thanks also to our current MEDC Committee members: **Chris Young, Joanie Stultz, Kyle Wong, Natalie Reilly, Doug Schlepp, Randy Black, DeEtta Fosbury** and **Mehrin Selimgir**, and supported by our Trustee Liaison to the Membership Division **Chandra Hingston**.

Are you interested in learning more about the MEDC? Attend our next monthly call. We meet on the second Friday of the month from 12 pm to 1 pm. Contact jstultz@brwnncald.com for the meeting invite. 



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Taking PFAS from Pretty Freaky and Scary to Perfectly Feasible and Acceptable Solutions

PFAS and other perfluorinated substances seem to be everywhere. Physically, it is all around us in common consumer products like cookware, waterproof coats, stain-resistant furniture, and food packaging. Metaphysically, it is the topic of news reports, consumer concern, and public anxiety. Even within the water industry, we face a long list of unknowns, including developing analytical methods for thousands of unique compounds, evolving public health studies, new rule-making approaches and shifting regulations, evaluating water supply options, and implementing infrastructure where needed to manage these challenges.

Since many of us throughout the Pacific Northwest Section (PNWS) are currently grappling with challenges on perfluorinated compounds, it was the perfect topic for a regional workshop. The **Water Treatment Committee** and **Water Research Committee** joined forces to bring together knowledge from industry experts who are helping us find answers to the big questions out there, as well as experience from those who are already implementing solutions to continue to provide safe and reliable water.

On September 7, 2023, over 80 professionals gathered in person (plus another 20 virtually) at the City of Vancouver's Water Resources Education Center on the banks of the Columbia River for the PFAS Workshop. Ten speakers shared expertise across four sessions, including a break for a hosted box lunch. The strong attendance demonstrates the degree of interest in the topic as well as the thirst for in-person networking and education opportunities that the PNWS provides. Summaries of the four sessions are below.

Overall, participants came away from the workshop with increased knowledge of the status of PFAS in the drinking water industry, new implementable ideas on managing this challenge, and increased hope that we can overcome the challenges our region faces to continue to provide clean and safe water to customers throughout the Pacific Northwest.

Publicly Forcible Accurate Standards

The first session focused on the current state of regulations around PFAS. This included a unique opportunity to hear from regulators from all three states represented by the PNWS.



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Mike Means (Washington Department of Health) first gave an overview of PFAS regulations. Washington implemented state action levels (SALs) for five specific perfluorinated compounds in 2021. Approximately 2% of public water systems tested so far in the state exceed these levels for one or more compounds. EPA's proposed maximum contaminant levels are mostly more stringent, so closer to 5% of systems may be affected.



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Tyler Fortunati (Idaho Department of Environmental Quality) next reviewed federal regulations and occurrences throughout the nation and state of Idaho. Idaho defers to federal regulations, and the EPA's proposed rule includes a hazard index as a way of regulating compounds as a group. Data from UCMR5 includes 12 Idaho systems, one of which has detections. A more comprehensive state monitoring program is finding around 15% of systems with some level of detection.

Gregg Baird (Oregon Health Authority) finished the regulatory session discussing PFAS in Oregon's public systems. Oregon established health advisory levels for four perfluorinated compounds in 2021. UCMR3 and an initial statewide sampling program found very few detections, with none that exceeded the advisory levels. UCMR5 and a refined statewide sampling program with lower detection limits found increased detections, including two systems exceeding the state HALs and 20 systems that exceed the EPA's proposed MCLs.

Proliferated, Found, and Subdued

The second session focused on treatment techniques for PFAS, including proven removal options that can be implemented at the utility-scale and novel destruction techniques that are being developed.

Professor **Feng Xiao** (University of Missouri) discussed the decomposition of PFAS during thermal regeneration of spent GAC. Some perfluorinated compounds, including PFOA, are degraded around 150°C, while others, including PFOS, require temperatures around 450°C. Degrading the PFAS while incorporated into other materials, such as sorbed to GAC or part of aqueous firefighting foams, can decrease the required temperatures.



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Joanie Stultz (Brown & Caldwell) shared process selection and design considerations for drinking water utilities to manage PFAS. The best available treatment technologies are GAC adsorption, anion exchange adsorption, and membrane (reverse osmosis or nanofiltration) removal. GAC is widely used and removes many co-contaminants, but it has high media change-out costs. Ion exchange better removes short-chain compounds and fits into a smaller footprint but has higher pumping costs and risks of fouling. The City of Vancouver, WA and Sammamish Plateau Water have recently completed PFAS management plans, including treatment validation studies and are now on the path to implementation.

Charlie Liu (Kennedy Jenks) completed the treatment session, giving an overview of PFAS destruction technologies. PFAS are very stable compounds that require high energy inputs to destroy. PFAS are best destroyed in high concentrations, such as in reverse osmosis reject and IX regeneration brines. Longer chains are generally more amenable to destruction than shorter chains, and PFOA (carboxylic) is more amenable than PFOS (sulfonic). Supercritical water oxidation and reductive defluorination are examples of destruction technologies proven at laboratory scale and being developed for full-scale applications.

Professionally Fighting and Surmounting

The next session focused on case studies and the lessons learned by utilities implementing PFAS management plans and treatment facilities operational.

Marshall Meyer (Lakewood Water District) reviewed Lakewood's PFAS mitigation strategy and operational lessons learned. They first found PFAS in their shallow groundwater aquifers in 2016. After an extensive review of options, including drilling new wells, purchasing water, or building treatment, construction of GAC treatment for some wells was completed in 2019, and additional wells were added in 2022. They have since overcome challenges with arsenic buildup, finding adequate sampling locations, and providing freeze protection. Under Washington's current SALs, they are finding media can last more than five years. Under the EPA's proposed MCLs, the media may only last half as long before needing reactivation or replacement.



Pierre Kwan (HDR) reviewed the experience of the City of Issaquah, WA, after a public outcry in 2016 led to rushing a GAC treatment facility into service within three months. Bituminous coal has been found to have a much longer service life than coconut-based GAC and has been treating finished water to non-detect PFAS levels. Iron oxidizing bacteria were causing biofouling and premature headloss development, which has been well mitigated by periodic backwashing. Another challenge is that the GAC has been found to accumulate radioactivity, though the source water has only extremely low levels of it. Operators have been resourceful in overcoming these challenges in a space-constrained site with no sewer outlet.

Publicizing, Financing, Advancing Science

For the final session, we reviewed other important considerations required for successfully implementing PFAS management and treatment programs, specifically public outreach and financing.

Libby Barg Bakke (Consort) led a wonderfully interactive session on communicating about PFAS while maintaining public trust. Americans report polluted drinking water as one of the top ten fears, and the most vulnerable customers are often the least trusting and require the most outreach. Messaging should follow the pattern of 'Caring, Action, and Perspective.' Communications should be proactive for elective officials, staff, regulators, and the public.

Kim Pugel (Stantec) completed the workshop reviewing funding considerations for PFAS management. Federal grants and low-interest loans typically fund 40% of capital infrastructure spending. The EPA can apportion funds for PFAS treatment through the Emerging Contaminants in Small or Disadvantaged Communities Program, the State Revolving Fund for Emerging Contaminants, or the State Revolving Fund for Infrastructure. Funding often prioritizes small and disadvantaged communities. Applications for and staying compliant with funding requirements require time and resources.

Acknowledgements

Mac Gifford (Portland Water Bureau) and **Andrew Nishihara** (Stantec) are the Water Treatment Committee and Water Research Committee chairs and led the PFAS workshop planning committee. **Mehrin Selimgir** (City of Vancouver) moderated the virtual workshop, and **Ben Goecke** (Calgon Carbon) moderated the in-person workshop, including administering CEU accreditation. The Planning Committee included **Stephen Timko** (Kennedy Jenks), **Brian Rowbotham** (Stantec), **Aaron Gress** (Hoch Consulting), **Xue Jin** (Oregon State University), **Kim Reid** (Veolia), and **Chris McMeen** (Confluence Engineering). Great work, team! 🙌



Utility Management Committee

Join Us for Asset Management+ on January 24

The Utility Management Committee (UMC) is planning a day-long **Asset Management+** training workshop on January 24, 2024, at Green River College at Kent Station.


Topics will include asset management fundamentals, culture, and challenges; asset management financial planning and community involvement; CMMS program succession and implementation; and asset remaining lives assessment.

0.60 CEUs are expected to be approved for WA and OR water operators.

Speakers include staff from Covington Water District, City of Enumclaw, Veolia at Wilsonville Water Treatment Plant,

SRT Consultants, Sammamish Plateau Water & Sewer District, the WA Public Works Board, and the WA Department of Commerce.

The training will include a tabletop exercise, 'Optimize your Asset Management System.' A light breakfast and a boxed lunch are included. Registration is open. For more information, please contact Diane Pottinger with North City Water at dianep@northcitywater.org.

To inquire about the Utility Management Committee, please reach out to the Committee Chair, Ann Hajnosz, at ann.hajnosz@weareharris.com. 

Water Conservation Committee


The Water Conservation Committee held its annual Summer Meeting in Bend, OR, on August 25, 2023. The 'Source to Brewer to Sewer Tour' meeting focused on the journey water takes through the City of Bend. Attendees started the day at Tumalo Falls, viewing the Heidi Lansdowne Surface Water Intake Facility, followed by a tour of Bend's Water Filtration Facility, led by the Water Operations Team: Rod Mingus, Corey Mastrud, and Chris Wood. Following lunch at Worthy Brewing, Rick Martinson gave a tour of the Worthy Environmental Organic Farm, located onsite at the brewery and providing sustainably grown produce for the Worthy kitchen! The day concluded with a tour of the City's Water Reclamation Facility, led by George McConnell and Erynne Fore, completing the journey of water through Bend. Special thanks to the City of Bend for planning and hosting this year's Summer Meeting, notably Daniel Denning and Matt Ziebel for coordinating and chauffeuring the event!

Water Conservation Committee members also reviewed and discussed abstracts submitted for the 2024 PNWS Section Conference. The Conservation track at the 2024 PNWS Section Conference will include a three-hour technical session, with presentations from five water conservation professionals, as well as a pre-conference session focused on 'Water Efficiency Solutions for Commercial Properties.'

The Committee planned our Winter Meeting for Monday, November 13, 2023, where we welcomed guest speaker Laura Allen, a founding member of Greywater Action, a collaborative of educators who teach residents and tradespeople about affordable and simple household water systems that dramatically reduce water use. Laura has spent the past 20 years exploring simple and ecological water solutions. She is the lead author of the *San Francisco Graywater Design Guidelines for Outdoor Irrigation* and



has additionally authored *The Water-Wise Home: How to Conserve and Reuse Water in Your Home and Landscape* (Storey Press, 2015) and *Greywater, Green Landscape* (2017). We were very excited to welcome Laura to our Winter Meeting and learn from her vast knowledge of sustainable greywater systems! We also shared member updates at the Winter Meeting and discussed the future meeting schedule.

For more information about the PNWS Conservation Committee, please contact Chair Cody Scoggins at cody.scoggins@medfordwater.gov, Vice-Chair Brittany Contreras at brittany.contreras@hillsboro-oregon.gov, or Secretary Amy Meaut at amy.meaut@hillsboro-oregon.gov. 

Young Professionals Committee

The Young Professionals Committee hosts events that foster valuable leadership skills, provide opportunities to grow technical knowledge to enhance careers in the water industry, and encourage networking between seasoned professionals and YPs. Young Professionals are those who have been in the water industry for less than ten years.

What the YP Committee is Up To

Planning the Hunt

In May 2024, the YP Committee will host their annual PNWS Conference Scavenger Hunt in Spokane, WA. The Committee is ramping up efforts to partner with sponsors, secure different venues that YPs will visit during the hunt, and develop networking opportunities for hunters. If you are interested in learning more or sponsoring this wonderful event, please contact annabeli@sagegeotechnical.com.



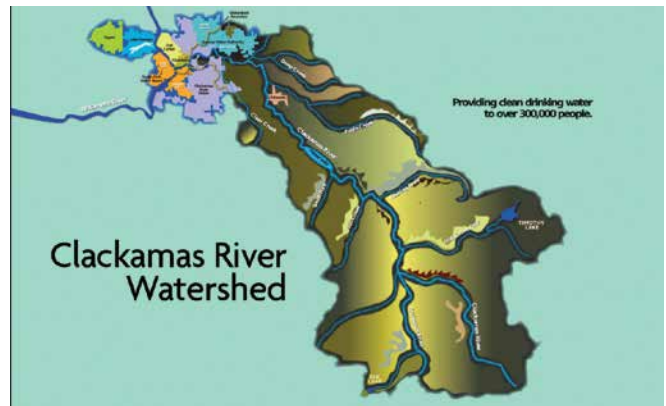
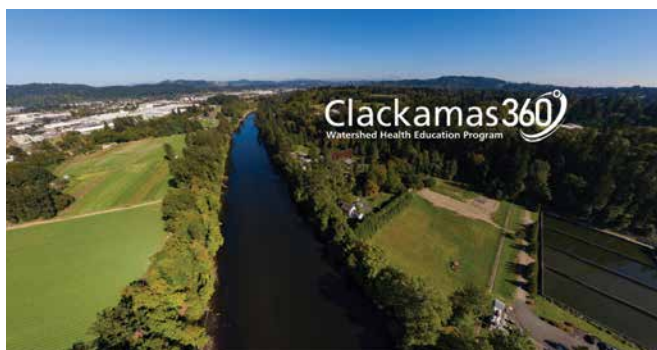
The Childhood Express, located in downtown Spokane. Photo courtesy of SpareFoot.

Cornholers Unite

Cody Scoggins from the Southern Oregon Subsection organized a cornhole tourney for YPs. The tourney was a smashing success, with over 30 participants demonstrating their cornhole prowess! Cornholers chatted in between rounds over pizza and drinks. A big thanks to Jacobs and HDR for sponsoring the tourney!

Watershed Tours – Going Virtual

The Chair of the Northwest Oregon Subsection, Emma Martin, organized a virtual tour of the Clackamas River watershed this past September. Clackamas River Water



Providers (CRWP) talked to YPs about the watershed, the economy and recreation it supports, challenges to water quality, and the important work CRWP does to ensure a resilient water source for over 300,000 people in Clackamas and Washington counties. Virtual tours present great opportunities for professionals across the PNWS to learn about and discuss challenges facing the water industry.

Upcoming Events

2024 YP Summit: the Summit will be hosted in Portland, OR, from February 11-13, 2024. This AWWA and WEF (Water Environment Federation) event is a skills development and networking workshop for emerging water and wastewater professionals. Registration opens in November. More information is coming soon!

Participate and Stay Connected!

The YP Committee meets virtually every month, so it couldn't be easier to stop in and see what we're up to! Please send an email to Claire Litsky at clitsky@cityoftacoma.org or Annabel Irwin at annabeli@sagegeotechnical.com for questions or to be added to our contact list. 📧



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King County Subsection

It's getting chilly – and winter is here! The King County Subsection is looking for new ways to serve our members this year and to continue getting people involved in our amazing Subsection. We encourage you to get involved and meet the awesome people who make up our industry!

Events

27th Annual KCSS Golf Tournament a Success

On behalf of the King County Subsection, PNWS-AWWA membership and officers, we would like this opportunity to express our sincerest appreciation to our sponsors for the 2023 PNWS-AWWA Charity Golf Tournament at the Auburn Course, in Auburn, WA. We are so grateful for the presence and support of our membership for a great cause. We had such a blast this year, and because of the support received from our sponsors, we were able to donate over **\$7,000 to the Section's philanthropic efforts within the water industry, including Water For People, the Water Equation, and the PNWS E&T Fund.** We are already anticipating what is in store for next year and can't wait!

Officer Training Recap

The Pacific Northwest Section of the American Water Works Association provides all the Association training and activities within the states of Oregon, Washington, and a portion of Idaho. The Section Board of Trustees has created 12 Subsections within this geographic area to provide more grassroots opportunities for members. These 12 Subsections have their own officers who manage the day-to-day activities of their regional area while reporting to the Section Board of Trustees.

Every year, officers from the Subsections, Section Committees, and Section Board of Trustees get together to learn how to operate, collaborate, and continue to provide for our members. This year, the officer training was in Chelan, WA. King County Subsection members enjoyed learning, sharing,



and collaborating with other professionals in the Section, in addition to participating in the National AWWA Water 2050 'Think Tank.'

Water 2050 is a collaborative initiative led by AWWA to envision the future of water and chart a course for success and sustainability. To bring together diverse voices to explore the water community's long-term challenges and opportunities, AWWA is hosting a series of 'Think Tanks' with influential thinkers from within and outside the water sector to examine water's future through the prism of five core drivers: sustainability, technology, economics, governance, and social/demographics. Check out more information at www.awwa.org/resources-tools/water-2050/water-2050-reports.

What We Are Looking Forward To 2024 Water Olympics

Planning is underway for the 2024 KCSS Water Olympics and member appreciation event. If you've been to our competitions in the past, you'll know that this event is a blast. With more than 70+ competition participants, sponsors, and audience showing up to support their colleagues, you're guaranteed to have a good time. If you're interested in a practice hydrant or meter, or if you're interested in sponsoring the event, let us know. Contact King County's PNWS-AWWA's Competitions Coordinator, Ted Stonebridge, at tstonebridge@northbendwa.gov. We look forward to seeing you there!




New Members

Welcome new members! If you are a new member of the King County Subsection, we would love to get you connected and learn more about your interests. Join us at one of our quarterly in-person lunch meetings to learn more. If you are interested in attending any of these meetings, contact the Subsection's Secretary, Beth Mende, at emende@kingcounty.gov.

Future Training

The Subsection is committed to offering classes to help our members meet their CEU requirements. The goal of the Board is to offer at least four classes within the calendar year. Planning is underway for the 2024 Technical Program, with classes with P&ID training being next on the list! Look out for further announcements and registration information. For questions related to classes, whether it's an idea for a class, suggestions for speakers, or general information about training and CEUs, please contact our Program Director, Chris Guest, at chris.guest@covingtonwater.com or 253-867-0947.

KCSS Board Transitions and Recruitment

This season brought with it some transitions to the KCSS leadership. Please welcome Grace Crowe as our new Philanthropic Activity Committee (PAC) Liaison. Grace works for Kimley-Horn and will be helping to plan events and fundraisers to support the important work AWWA is doing with Water For People, Water Equation, Education and Training Fund, and other philanthropic programs. 

Northwest Washington Subsection

Happy Holidays from all of us at the Northwest Washington (NWWA) Subsection PNWS-AWWA! As we enter this busy holiday season, we want to take a moment to pause and reflect on all we were able to accomplish this year, thanks to the ongoing support of our volunteers and members. Thank you to everyone who helped organize or participated in our workshops and events in 2023. We hope to see you again in the New Year!

Training

Recap

In 2023, the NWWA Subsection hosted six workshops and the Western Washington Short School and Trade Show, which is co-hosted with PNCWA. Workshop offerings this year included Math for Operators and P&ID, the Day with Department of Health (DOH), Basic Waterworks, Emergency Preparedness, Water Storage Basics, and Pump Station O&M.

Upcoming

We have a full slate of training opportunities already planned or in development for 2024, including:

- Math for Operators and P&ID – Spring 2024
- Day with DOH – Spring 2024
- Western Washington Short School – June 4-5, 2024
- Groundwater Basics – Spring 2024
- Basic Waterworks
- Water Distribution
- Chemistry for Operators
- Water Quality Basics
- Chemical Storage and Feed
- Emergency Preparedness

The NWWA Subsection is committed to bringing you high-quality, affordable training. The complete training schedule will be posted to the PNWS Section website at www.pnws-awwa.org/training/training-opportunities and shared via Constant Contact. For training-related questions, please contact our Program Co-Chairs, Jeff Lundt and Eric Schey, at jeff.lundt@kingcounty.gov and eschey@kingcounty.gov.



Events

Recap

The NWWA Subsection hosted the first annual 'Waves for Water' fundraiser on September 7, 2023. Thirty attendees enjoyed breathtaking views of the Swinomish Channel and Deception Pass aboard the M/V Rosario, along with a delicious, freshly prepared cracked crab and roast chicken dinner and a selection of Northwest beer, wine, and spirits. This year's Waves for Water was sponsored by the NWWA Subsection, Associated Earth Sciences, Carollo, HDR, and GeoEngineers. **Thanks to our generous sponsors and attendees, Waves for Water raised over \$2,000 for the One AWWA Water Operator Scholarship.** We look forward to hosting this event next fall to help support continuing education, certification, training, and conference attendance for our region's water and wastewater operators. The NWWA Subsection fall 'Meet-and-Greet' was held on November 16, 2023, at Terracotta Red in Everett, WA.

Upcoming

NWWA will host our annual Meter Challenge and Hydrant Hysteria event in March 2024, following the Day with DOH workshop. More information will be available in early 2024. Please check



our website for details at www.pnws-awwa.org/member-groups/subsections/northwest-washington-subsection. For event-related questions, please contact our Subsection Secretary, Bridget August, at baugust@geoengineers.com.


New Members

If you are a new member of the NWWA Subsection, we would love to connect with you! Please reach out to our President and New Member Chair, Dave Price, at dprice@carollo.com.

In addition to Dave, we encourage new and existing members to contact any of our Subsection officers to learn more about the Subsection and get involved. We would love to have you join us! Our current Board is:

- President and New Member Chair: Dave Price, Carollo
- Vice-President: Nick Leininger, City of Bellingham
- Treasurer: Mark Semrau, Skagit PUD
- Secretary and Philanthropic Advisory Council Liaison: Bridget August, GeoEngineers
- Director: Don Ranger, Alderwood Water & Wastewater District
- Past President: Kenneth Packard, HDR
- Program Co-Chair: Jeff Lundt, King County Wastewater Treatment Division
- Program Co-Chair: Eric Schey, King County Wastewater Treatment Division

Monthly Meetings

The NWWA Subsection holds monthly virtual meetings, and we would love to 'see' you there. To be added to the monthly meeting invite, please contact our Subsection Secretary, Bridget August, at baugust@geoengineers.com. 

South Sound Subsection

Update

This fall, the South Sound Subsection hosted a hybrid training in partnership with DIPRA, Ductile Iron Pipe Research Association, covering the design, installation, and maintenance of ductile iron pipe. There was strong participation, both in-person and online, and the Subsection looks forward to continuing to offer online/in-person hybrid trainings for you.

Upcoming Trainings

We are starting to prep and plan for our 2024 trainings. Next spring, keep your eyes open for our annual Waterworks 101 workshop. This is a great introductory class for new hires to gain familiarity with the water industry or for seasoned professionals to continue their education.

Monthly Board Meetings

Are you in the South Sound and in one of these counties: Kitsap, Pierce, Mason, Thurston, Grays Harbor, or Pacific (except some portion lying south of the east/west line through the mouth



of the Nema River excluding the Long Beach Peninsula)? We would love for you to join us, either on the Board, as a volunteer, or just to listen in at our monthly board meetings. Please reach

out to our Subsection President Shantel Broussard, sbroussard@cityoftacoma.org, for an invite to our meetings (third Wednesday of every month), which are held via Zoom. [FA](#)

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Southern Oregon Subsection

The biennial PNWS-AWWA Southern Oregon Subsection Short School was a big success this year, thanks in part to our generous sponsors: Carollo Engineers, Neilson Research Corporation, RH2 Engineering, and Stantec Engineering. We would also like to thank the presenters, vendors, and our members for taking part and making the Short School a success.



Organized by the PNWS-AWWA Southern Oregon Subsection, partnering with RCC, UBOS, and PNCWA. The event was held September 19-21, 2023, at the Rogue Community College Campus in Grants Pass, OR, and drew 65 attendees representing every county in the Subsection.

Attendees had the opportunity to choose from coursework organized into a water, wastewater, or combination track. In addition to the coursework, attendees also participated in tours of the Grants Pass Water Filtration Plant and Water Reclamation Plant. Attendees also had the opportunity to network with other professionals at a dinner/vendor social




on the RCC campus and a Young Professionals cornhole tournament at Weekend Beer Company in Grants Pass.

The Short School was the Subsection's first in-person Short School since COVID-19. All in all, the event was able to net \$17,088. The majority of the balance will contribute to the Southern Oregon Scholarship, which helps to support local students pursuing a career in the water industry.

At the YP event, the competition heated up, with 30 participants from all over the Subsection putting

their cornhole skills to the test. The tournament was sponsored by Jacobs and West Yost, and the winners received a variety of prizes. The real prize was the opportunity to network with other young professionals in the water industry and have some fun!

Once again, we would like to thank everyone for their efforts in making this a great Short School. The Subsection is looking forward to an even better Short School in 2025!

For more information, please get in touch with Adam Smith at asmith@pnws-awwa.org. 





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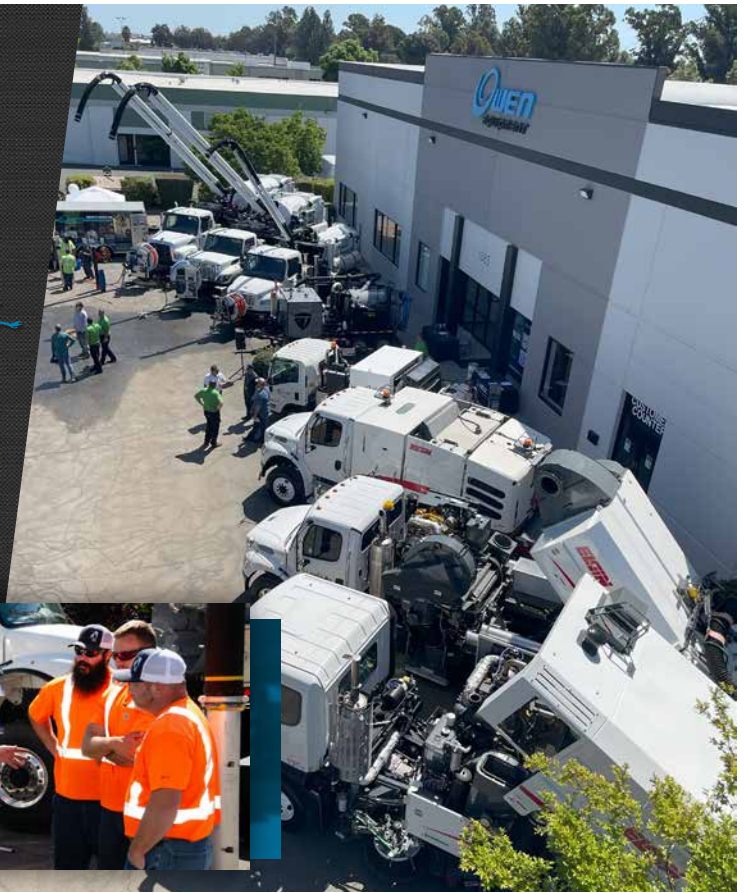
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PNWS-AWWA 2024 Buyers' Guide

Welcome to the annual *Water Matters* Buyers' Guide.

When making purchasing decisions about products and services in the water industry throughout Washington, Oregon, Idaho, and beyond, please support the companies whose advertising makes *Water Matters* possible. You will find them quickly with our convenient, easy-to-use Buyers' Guide.

On these pages, you will find information that will help you meet your purchasing requirements throughout the year ahead. The initial section of this Buyers' Guide lists categories of products and services along with the various companies that can provide them to you. The following section provides an alphabetical listing of those companies and the contact information you will need to reach them.

Categories

Access

Control & Security
SYBIS LLC

Activated Carbon

CEI – Carbon
Enterprises, Inc.

AMR Systems & Meters/AMI Solutions

Neptune Technology
Group, Inc.

Asset Management & Rehabilitation

CUES
SYBIS LLC

Biosolids

Synagro Technologies, Inc.
Veolia Water Technologies

Brass Valves & Fittings

The Ford Meter Box
Company, Inc.

Chemical Dosing Pumps

Blue-White Industries

Chemical Feed Pumps

Blue-White Industries

Chemical Processing & Feed Systems

Blue-White Industries

Continuing Education

Backflow Management Inc.

Contractors

Garney Construction
SYBIS LLC

Corrosion Control

Norton Corrosion
Limited LLC

CSO/SSO Controls, Water Resources, Distribution & Collection

Brown and Caldwell
Veolia Water Technologies

Design-Build Contractor

Brown and Caldwell
Garney Construction
Synagro Technologies, Inc.

Disinfection

Force Flow

Electrical

Instrumentation/Controls/Generators
VEGA Americas, Inc.

Engineers/Consultants

Backflow Management Inc.
BHC Consultants, LLC
Brown and Caldwell
Carollo Engineers
Conсор
Gray & Osborne, Inc.
GSI Water Solutions, Inc.
PACE Engineers, Inc.
RH2 Engineering
Shannon & Wilson
Wilson Engineering, LLC

Environmental Contaminant Treatment

Veolia Water Technologies

Filter Media

CEI – Carbon Enterprises, Inc.
Orthos Liquid Systems, Inc.

Filtration

CEI – Carbon Enterprises, Inc.
Orthos Liquid Systems, Inc.
Veolia Water Technologies

Flow Sensors

Blue-White Industries

GIS Services

BHC Consultants, LLC
GSI Water Solutions, Inc.
PACE Engineers, Inc.

Information Technology

SYBIS LLC

Inspectors/Locators

Owen Equipment Company

Land Surveying

PACE Engineers, Inc.
Wilson Engineering, LLC

Level Instrumentation

VEGA Americas, Inc.

Manhole Rehabilitation

CUES

Meter Data Management

Neptune Technology
Group, Inc.

Meter Reading Systems

Neptune Technology
Group, Inc.

Meters/Meter Testing

Neptune Technology
Group, Inc.

Nutrient Removal

Orthos Liquid Systems, Inc.

Odor Control

Owen Equipment Company

Operation Services

Backflow Management Inc.
SYBIS LLC
Synagro Technologies, Inc.

Pipe & Appurtenances

AMERICAN Ductile
Iron Pipe
Garney Construction
U.S. Pipe

Pipe Repair Products

The Ford Meter Box
Company, Inc.

Pipe Restraint

The Ford Meter Box
Company, Inc.
U.S. Pipe

Pipeline Couplings & Clamps

The Ford Meter Box
Company, Inc.

Pipeline Inspection, Equipment & Vehicles

CUES

Pipelines (Steel/Concrete)

AMERICAN Ductile Iron Pipe
Gray & Osborne, Inc.
U.S. Pipe

Pump Stations & Meter Vaults

VEGA Americas, Inc.

Pumps/Pump Systems

Blue-White Industries

Residuals/ Waste Management

Synagro Technologies, Inc.

SCADA – Control System Design

Parametrix

RH2 Engineering

Sewer Cleaning Equipment & Accessories

Bucher Municipal

CUES

Owen Equipment Company

VEGA Americas, Inc.

Sewer Flow Monitoring (Sanitary, Storm & CSO)

VEGA Americas, Inc.

Storage Tanks/ Reservoir Systems

BHC Consultants, LLC

Conсор

Garney Construction

Gray & Osborne, Inc.

PACE Engineers, Inc.

RH2 Engineering

Stormwater Management

CUES

Gray & Osborne, Inc.

GSI Water Solutions, Inc.

Parametrix

Wilson Engineering, LLC

Tank Inspection & Maintenance

Pittsburgh Tank & Tower

Maintenance Co.

Tools & Equipment

Backflow Management Inc.

Training

Backflow Management Inc.

Ultrasonic Flowmeters

Blue-White Industries

Neptune Technology Group, Inc.

Valves

AMERICAN Ductile Iron Pipe

Variable Area Flowmeters

Blue-White Industries

Water Quality

Owen Equipment Company

Shannon & Wilson

Water Treatment Chemicals

Hasa, Inc.

Water Treatment Instrumentation

Blue-White Industries

Water Utilities Products Manufacturer

Hasa, Inc.

Water Wells & Intakes

Conсор

GSI Water Solutions, Inc.

Hasa, Inc.

Parametrix

Shannon & Wilson

Water Works Brass

The Ford Meter Box

Company, Inc.

Water/Stormwater Planning

BHC Consultants, LLC

Brown and Caldwell

Conсор

GSI Water Solutions, Inc.

PACE Engineers, Inc.

Parametrix

RH2 Engineering

Shannon & Wilson

U.S. Pipe

Wilson Engineering, LLC

Water/Wastewater Treatment Systems

BHC Consultants, LLC

Blue-White Industries

Brown and Caldwell

Carollo Engineers

Conсор

Garney Construction

Gray & Osborne, Inc.

Hasa, Inc.

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Systems, Inc.

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- Water rights strategy
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AMERICAN Ductile Iron Pipe

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Brush Prairie, WA 98606
Phone: 503-577-4194
johnkitchen@american-usa.com
www.american-usa.com

B



Backflow Management, Inc.

17752 NE San Rafael Street
Portland, OR 97230
Phone: 800-841-7689
bmi@bmibackflow.com
www.bmi-backflow.com

BHC Consultants, LLC

1601 Fifth Avenue, Suite 500
Seattle, WA 98101
Phone: 206-505-3400
jon.davies@bhconsultants.com
www.bhconsultants.com

Blue-White

Blue-White Industries

5300 Business Drive
Huntington Beach, CA 92649
Phone: 714-893-8529
info@blue-white.com
www.blue-white.com

Brown and Caldwell

701 Pike Street, Suite 1300
Seattle, WA 98101
Phone: 206-624-0100
bcmarketingseattle@brwnncald.com
<https://brownandcaldwell.com>

BUCHER municipal

Bucher Municipal

105 Motorsports Road
 Mooresville, NC 28115
Phone: 704-658-1333
info.us@buchermunicipal.com
www.buchermunicipal.com

C

Carollo Engineers

720 SW Washington Street, Suite 550
Portland, OR 97205
Phone: 503-227-1885
lkammereck@carollo.com
www.carollo.com

CEI – Carbon Enterprises, Inc.

28205 Scippo Creek Road
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Phone: 800-344-5770
ryan@ceifiltration.com
www.ceifiltration.com



Conсор

1 SW Columbia Street, Suite 1700
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erin.reed@consoreng.com
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Core & Main

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salesinfo@cuesinc.com
www.cuesinc.com

F

Force Flow

2430 Stanwell Drive
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Phone: 925-686-6700
info@forceflow.com
www.forceflowscales.com

The Ford Meter Box Company, Inc.

775 Manchester Avenue, PO Box 443
Wabash, IN 46992
Phone: 260-563-3171
bhuntley@fordmeterbox.com
www.fordmeterbox.com

G



Garney Construction

17510 W Bethany Road
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info@garney.com
www.garney.com

Gray & Osborne, Inc.

1130 Rainier Avenue S, Suite 300
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marketing@g-o.com
www.g-o.com



GSI Water Solutions, Inc.
55 SW Yamhill Street, Suite 300
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info@gsiws.com
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H



Hasa, Inc.
23119 Drayton Street
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info@hasapool.com
www.hasapool.com

N



Neptune Technology Group
1600 Alabama Highway 229
Tallassee, AL 36078
Phone: 800-633-8754
marketing@neptunetg.com
www.neptunetg.com

Norton Corrosion Limited, LLC
8820 222nd Street SE
Woodinville, WA 98077
Phone: 425-483-1616
pgoodwin@nortoncorrosion.com
www.nortoncorrosion.com

O



Orthos Liquid Systems, Inc.
PO Box 1970
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www.orthosfilters.com



Owen Equipment Company
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gpearson@owenequipment.com
<https://owenequipment.com>

P

PACE Engineers, Inc.
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Kirkland, WA 98033
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www.parametrix.com

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www.pttg.com

R



RH2 Engineering
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Bothell, WA 98021
Phone: 425-951-5400
info@rh2.com
www.rh2.com

S

Shannon & Wilson
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Seattle, WA 98103
Phone: 206-632-6931
shannon.galas@shanwil.com
www.shannonwilson.com

SYBIS, LLC

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Kirkland, WA 98034
Phone: 206-686-8463
sales@sybissolution.com
www.sybissolution.com

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Phone: 919-677-8310
usmunicipal@veolia.com
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bhc consultants	10	206-505-3400	www.bhcconsultants.com
Blue-White Industries, Ltd.	43	714-893-8529	www.blue-white.com
Brown and Caldwell	7	206-624-0100	www.browncaldwell.com
Carollo Engineers	11	800-523-5826	www.carollo.com
CEI Carbon Enterprises, Inc.	15	800-344-5770	www.ceifiltration.com
Conсор	17	425-252-9003	www.consoreng.com
Core & Main	16	509-893-1055	www.coreandmain.com
CUES, Inc.	2	503-622-3248	www.cuesinc.com
Force Flow/Halogen Valve Systems	12	925-686-6700	www.forceflowscales.com
Ford Meter Box Company	26	260-563-3171	www.fordmeterbox.com
Garney Construction	23	303-791-3600	www.garney.com
Gray & Osborne, Inc.	37	206-284-0860	www.g-o.com
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Parametrix	18	360-850-5307	www.parametrix.com
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U.S. Pipe	44	866-347-7473	www.uspipe.com
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