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Pacific Northwest Section

FALL 2015

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Pacific Northwest Section – AWWA

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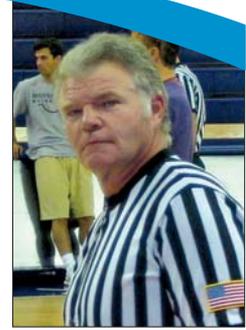


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Cover Photo: Native species and grasses were planted at the Bonita Pump Station as part of their green design features.





A summer for the ages

I can't remember a more challenging summer for utilities in our Section than this one. All three states are dealing with record-breaking dry weather and higher-than-normal temperatures. Seattle, Washington had record highs of 90 degrees or more on 12 days (and still counting) this summer; normally the average is two to three days. Portland, Oregon set a daily record high of 96 degrees and saw 95-plus-degree heat the first five days of July. Dalles, Oregon tied a daily record high of

103 degrees, and Yakima, Washington set daily record highs, one of which reached 107 degrees. Boise, Idaho tied its all-time record streak of nine straight days of 100-plus-degree highs on July 4.

You may be aware of a neighboring utility and/or your own utility that has had to request its customers to voluntarily reduce water consumption, while others have had to impose water restrictions on their customers. And if that wasn't enough, throw in wild fires in all three states. In Idaho, fire has

covered 304,686 acres in the northwest and southeast corners of the state. Washington fires have destroyed over 280,000 acres, and Oregon is at 45,000 acres devastated by state fires. I know all of you join me in our appreciation and heartfelt gratitude for the men and women who have been tirelessly battling our region's wild fires and think about those who have lost their lives in containing and putting out these fires.

Sometimes I think we have a tendency to forget about the important

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role we as water professionals and operators play when trying to do our job to the best of our abilities, especially when complicated with the conditions this summer has dealt us. I want to thank each of you for your hard work and dedication, given whatever circumstances your utility has had to deal with to ensure safe, potable drinking water to all.

Your Board of Trustees convened at the Fall Trustees' Meeting on October 7-9 where we listened to budget presentations from the Section's committees and ultimately adopted this year's annual budget. We also conducted Committee Officer training. This training is made available to committee officers to provide them with education and understanding in order to help them meet the expectations of the Section in their roles, as well as to make sure they have the tools available to them as they look to engage in activities that will benefit their committee which, in turn, will benefit the Section.

During this training, we provided an update on our progress as it relates

to this year's membership goals and the 20/20 Vision. Subsections will be receiving information prepared by the Membership Committee to help them reach out to utilities and organizations that aren't members of AWWA and those who don't frequent events or trainings hosted by subsections or committees. Our goal is to increase membership by 5 percent in the 2015-2016 year.

The 20/20 Vision plan has really made some progress, thanks to the drive and dedication of the Young Professionals Committee. I can't give enough credit to this committee for their passion in bring into reality a career dashboard that will be hosted on our Section's website. This will help seamlessly unite multiple generations of water industry professionals by helping employers attract and retain talent and to support students and YP's in finding fulfilling work. We've begun to form the 20/20 Vision Subcommittee and establish contacts with subsections. Our biggest need is to find two YP's and one Seasoned Professional for each subsection. If

you are interested in participating on the 20/20 Vision Subcommittee, or you'd like to get involved with this program at your subsection, please contact me or Meredith Noble at meredith.noble@stantec.com; we would welcome your assistance.

Finally, I wanted to share with you or remind all of you of the important role your Board of Trustees plays in serving our Section and on its behalf. Your Board of Trustees is comprised of two trustees from Washington, two from Oregon/Idaho, two trustees At-Large, a Treasurer, AWWA Director, Chair-Elect, Chair, and past Chair. Trustees each serve a two-year term on a staggered schedule, so that each year there are veterans as well as newcomers that make up the Board. The Treasurer serves four years, and the AWWA Director serves three years.

When you have elected officers and trustees to the Board, each member is making the commitment to work in concert with AWWA and the rules and by-laws that govern the Pacific Northwest Section. To do

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so, each person running for trustee must have their employer send a letter to the Section to support and allow for the time and expenses for that employee to attend the obligated functions in order to serve as a trustee. In turn, each trustee agrees to work cohesively and cooperatively with one another in pursuit of the best interests of the Section. In May of every year at the annual conference, a new board is sworn in. Each trustee serves a two-year term unless they choose to run after their first year for Chair-Elect. If elected, he or she will serve as Chair-Elect in their second year, Chair in the third year, and Past Chair in the fourth year.

Each trustee serves as a liaison between the Board/Section and the committees they have been assigned each year by the Chair. The trustees are to ensure each committee is connected to the Section and has the tools and the means by which they can operate as outlined by the committee's goals and objectives. Each trustee is assigned to help with

his or her committees, arranging to ensure a budget may or may not be necessary to meet the needs of that committee. In the fall of each year, the Board of Trustees meets to hear reports from the committees as well as adopt the next year's financial budget for the Section. In the winter, the Board of Trustees meets to discuss the upcoming conference and reviews the outlined conference program and helps with any issues or needs for that conference. It also deals with any other issues or needs to ensure the smooth operation of the Section. The Board also participates in a day set aside for Subsection Training. In the spring at the annual Pacific Northwest Section Conference, the Board convenes two days before to again hear reports from committees.

By now, you may be asking yourself, "Why is Randy going through all this information?" Well, it is very important to all of the trustees that you understand all the opportunities you have before you to share with us any concerns or issues you might have or

any recommendations or changes you would like to share that you think would benefit and be in the best interests of our Section. The Board greatly values the importance of what each member is to this organization, and your thoughts and concerns or issues are vital for us to hear. This also includes your feedback as to the direction of the Section and whether or not you are happy with the organization, its Board of Trustees, and its Executive Director. I can tell you that you are very fortunate to have the board you have this year, because every individual on the Board is dedicated, conscientious, and always looking to the best interests of this organization. We hope you are commensurately satisfied and proud of your Board and the way this organization is cooperatively run and the direction in which it is heading. 🇺🇸

Randy Black
Chair
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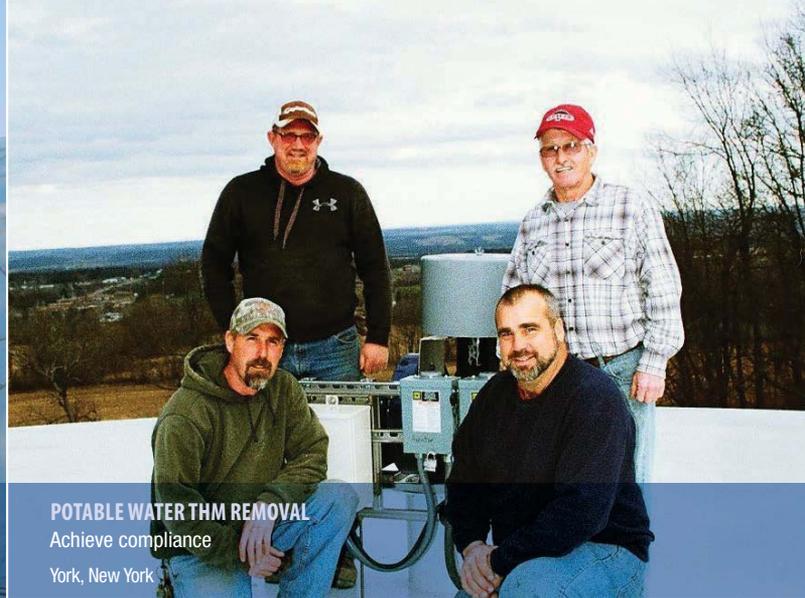
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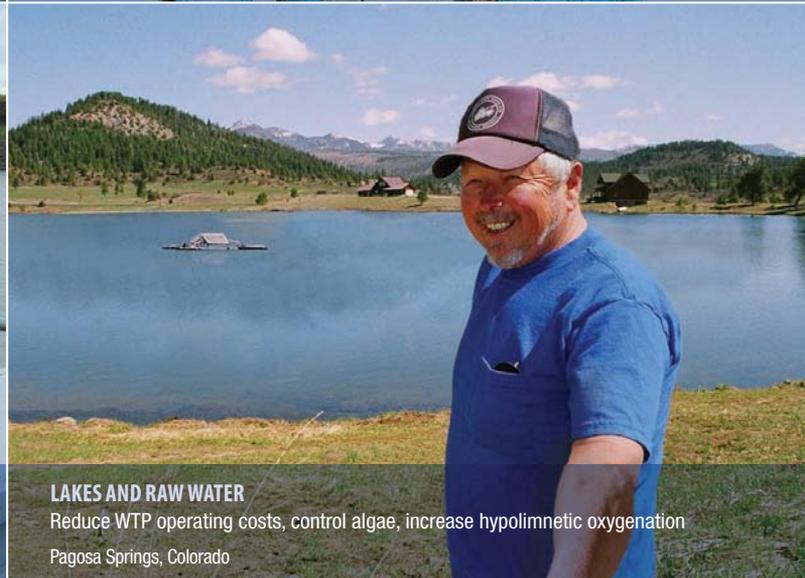
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Busy summer, busier fall

As many of you know, the Pacific Northwest Section of AWWA is one of the largest Section's in our association. We have 12 regional subsections and 40 plus committees that function on a daily basis providing training and networking opportunities for our 2,600 members. These subsections and committees are all run by volunteer officers whose responsibility is to provide leadership and direction to our membership. These volunteer leaders meet annually with our Board of Directors and I to get educated on the latest association news and to complete their own training on the communication tools, financial responsibilities and leadership skills needed to complete their term as either a subsection or committee officer in our Section.

To that end, we just completed our annual Committee Officer Training in beautiful Sunriver, Oregon on October 7-9. Seventy plus members were in attendance for a half day officer training followed by two days of Trustee Meetings where we developed our Section's 2016 budget. Training topics included:

- The new reimbursement process from the Section office
- Proper use of the Section and subsection logos
- Using our technology tools to make communication and training registration easy
- A new association training catalog was shared
- The Value of Water Coalition advertising that is available for free
- The first ever Young Professional Summit

A ton of material was communicated in a half a day but the objective was clear: give the committee officers the tools to make their jobs easier and energize them for the year ahead. Anyone can be a committee officer and I encourage everyone to jump in and become involved. You meet some great people, expand your network of experts who are always willing to assist you in your daily job, and have a fun time helping others in your profession. Give me a call in the Section office or reach out to one of our committee chairs for more information.

Section conference planning is just getting underway and not for the conference you think. While the Boise Conference is less than a year away, I am actually referring to the 2017 Kennewick Section Conference. The Kennewick Local Arrangements Committee is just about ready to kick off and is looking

for volunteers to help out. We need a 20-25 person committee to spend the next year and a half planning and implementing the Kennewick conference. Every aspect of the conference from golf, Fun Night, signage to technical content is managed by our members. You don't even have to be local to Kennewick to volunteer as we have a conference phone line for every meeting and you can call in. If you are interested or would like to know more about the opportunities give me a call at the Section office or reach out to our Kennewick Local Arrangements Committee Chair Pat Everham. Pat's contact information can be found on our website under the Central Washington Subsection.

It wouldn't be fall without an election but don't let your apathy for the national candidates detour you from voting in our Section election this year. Help us select the future leaders of our Section by returning the ballots that will be hitting your mailbox soon. We have a great list of candidates, all of whom have been

We need a 20-25 person committee to spend the next year and a half planning and implementing the Kennewick conference.

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"You can plan on a great day of training and networking as we go over the fundamentals of leading a subsection.

leaders at various levels of our Section, who are looking to volunteer once again and become a member of our Section Board of Trustees. Candidates this year include:

- **Chair Elect**
 - Dan Kegley – City of Spokane
 - Jacki Masters – Mt. View-Edgewood Water Company
 - Brad Taylor – Eugene Water and Electric Board
- **Oregon/Idaho Trustee**
 - Pat Van Duser – Black & Veatch
 - Max Woody – City of Central Point
 - Chris Young – DN Tanks
- **Washington Trustee**
 - James Dean – City of Yakima
 - Ronda Farmer – Spanaway Water Company
 - Pierre Kwan – HDR
- **Trustee At Large**
 - Kevin Boggs – CH2M
 - Stephanie Raddatz – United Water Boise

Subsection officers – mark your calendars for the Winter Subsection Training and Trustee Meeting in Vancouver, WA at the Heathman Lodge, February 3-5. You can plan on a great day of training and networking as we go over the fundamentals of leading a subsection. If you are a current subsection officer or have desires to become one, plan on attending. If you stay throughout the two days we will even reimburse your hotel and travel. Stay tuned for more information from the Max Woody and the Subsection Advisory Council (SAC). If you don't know what the SAC

does, I encourage you to read Max's article in this edition of Water Matters to find out the important role the SAC plays in the well-being of our Section.

Finally, I would be remiss if I did not mention that the 2016 Section Conference in Boise registration goes live next year on January 4. If you are a

vendor you will want to register early to get your booth of choice. Look for more information about the registration process and deadlines in the monthly Section E-newsletter.

Enjoy your fall! 🍂

Kyle Kihs, Executive Director

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AWWA updates

What would a day without water be like? No drinking, flushing, or bathing. No water to cook dinner, wash clothes or brush your teeth. No water to douse fires, water crops or manufacture products.

To help utilities and others raise awareness about water infrastructure and resource challenges, the Value of Water Coalition is sponsoring a campaign called "Imagine a Day Without Water" from Oct. 6 through 8. The coalition recently released a free (for utility members) toolkit to help water professionals and organizations promote value of water messages. The ads, fact sheet and other items can be used during the campaign and at other times.

Another AWWA member value is tool kits developed by the Diversity and Member Inclusion Committee for use in Special Observances Months. AWWA and our members pay tribute to the many contributions the Hispanic/Latino community has made to our industry, country and the world during Hispanic Heritage Month will be September 15 – October 15. Join AWWA and our members in reflecting upon the rich Hispanic/Latino history within our water community. If you would like more information about this and other Special Emphasis Observances Months material, give me a call.

I recently read a Zig Ziglar article that laid out a road map for success. Given the profession we've chosen (or chose us) it clicked for me!

ACTIVATE your motivators. My motivator is to contribute to our Pacific Northwest Section and American Water Works Association to fulfill our mission to provide safe water for our families and communities. We proudly serve day in and day out to this noble service profession to make safe water a daily reality.

ANALYZE what you need to do. As AWWA members, we plan at

the Association and Section level. As committee members, we are preparing work plans and budgets for 2016. The upcoming Fall Trustee meeting will complete the budget process in preparation for a successful upcoming year.

Take ACTION! Develop your strength and passion and apply it. Pursue the opportunity that is the best fit for your skillset to promote our mission. No matter what your background is, it is essential for our water profession to succeed.

Association Updates

It has been a productive and busy year. In recap, we launched The Water Equation philanthropic program to raise scholarship funds. Tom Curtis retired after a 42 year career as Director of Government Affairs in the AWWA DC office and G. Tracy Mehan III has been hired to fill the vacancy. AWWA 2020 efforts continue and have resulted in consistent branding in many of the 43 Sections. Gaurav Sood, AWWAIndia's Executive Manager is located in our new office in Mumbai, India. CE Corps has approved ten new project applications in 2015: of these, five are water projects. The Environmental Protection Agency (EPA) project team continues to coordinate with Sections and will deliver 91 workshops by the end of 2015. These are just a few of our successes.

Looking forward, development of a 21st Century Membership Model continues and is scheduled to be voted on at the AWWA Board meeting in January. Water Training & Education Resource Exchange (WaTER-X) efforts continue.

WaTER-X is live and ready for Sections to use at www.awwa.org/WATERX. The catalog will be updated as Sections submit more products. Initial offerings include classroom-based learning, eLearning courses, webinars, and a

No matter what your background is, it is essential for our water profession to succeed.

free outreach video. Check out the new AWWA Connections newsletter, a member benefit by email, featuring water community news, colleague profiles, career tips and opportunities to engage with AWWA in fun ways. Look for it in your inbox every other Friday.

On a personal reflection, I can't believe this is my 3rd year to enjoy the privilege of serving as your Association Director. In less than a year, my three year term will conclude in June at the close of the ACE Conference in Chicago. I have great confidence in my successor Kari Duncan. I look forward to the opportunity to serve with her during my next role with AWWA as a Presidential officer. I am honored to represent our Pacific Northwest, and serving with Kari Duncan as a fellow Board member will make it that much more memorable.

It is hard to believe the holidays are only months away. I hope you all enjoy a healthy and safe season and I look forward to a sharing a successful 2016 with you! 🇺🇸

Brenda Lennox
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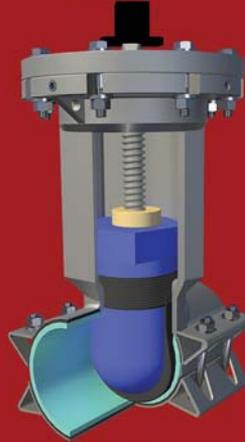
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Personal Leadership Committee

The Personal Leadership Committee is comprised of several subcommittees that sponsor events in local areas. The mission is to provide individuals with the tools to thrive both personally and professionally within the water industry.

Portland

Aqua Athenas hosted its summer quarterly networking event on August 19, 2015 at On Deck Sports Bar & Grill. The latest event's discussion focused on the topic of imposter syndrome, and included a conversation about people's experiences and strategies for

overcoming feeling like an imposter. Aqua Athenas' events typically alternate between a breakfast and happy hour, and are always a great, informal way to meet other women working in the water industry. The Aqua Athenas planning committee will be meeting soon to plan our next event, so keep an eye out for an event invite in the next couple months.

Finally, Aqua Athenas is launching a mentoring program. If you are interested in signing up as a mentor, or looking for a mentor, please contact the planning committee. If you have any questions about

Aqua Athenas, would like to be added to our contact list, or would like to get more information on our upcoming events, please contact either Sarah Betz at sjbe@deainc.com or Lisa Snowden at lisa.snowden@hdrinc.com.

If you are interested in getting involved or have ideas for future events or topics, please contact our leadership team:

- Jim Meierotto (Chair) – jim.meierotto@tvwd.org
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- Kristel Fesler (Vice-chair) – Kristel.fesler@hillsboro-oregon.gov
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Scholarship Committee

The American Water Works Association and specifically our Pacific Northwest Section is built on the foundations of volunteerism and education. The most substantial investment we can make in the future of our water industry remains the recruitment and training of qualified operators, engineers and administrators.

The PNWS-AWWA Scholarship Committee has awarded nearly 200 scholarships to deserving students over the past twenty years to students from 18 different northwest educational institutions. Scholarships are generally awarded to individuals working on a two-year program, the third or fourth year of a Bachelor's degree, or coursework taken toward a Master's degree or PhD.



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For the current (2015-2016) academic year, a total of \$24,500 was awarded to eight individuals. Funding for these scholarships came from multiple sources:

- *Ameron International* (an annual \$4,000 scholarship to the top applicant since 1995);
- *The Education and Training Endowment Fund* (The E & T Fund's earnings are used to fund scholarships for deserving students as selected by the Scholarship Committee);
- *Contributions from Manufacturer's and Suppliers Conference* Registrations;
- *Contributions from Kelman & Assoc* (our publishers of *Water Matters*), and the *NW Washington Subsection*;
- *Annual contributions from the Section's general fund* approved by the Board; and
- *Direct contributions from Subsections and vendors*

Donations to the E&T Fund can be designated to create perpetual scholarships in someone's name after the size of the donations exceeds \$10,000. There are currently twelve named Perpetual Scholarships each year:

- The **Archie Rice Scholarship** honors a man from CH2M Hill Engineers who served as Section Chair, received the George Warren Fuller Award and earned the Golden Water Drop Award for 50 years membership in the AWWA.
- The **Alan H. Jones Scholarship** honors the long-time manager of the McMinnville Water Utility. Alan also won the George Warren Fuller award and served as Section Chair. In 1987, he became a Life Member of the AWWA.
- The **Ray Pettie / Bob Stiles Scholarship** honors two men who were central to the development of cross-connection control in the Pacific Northwest.
- The **Cynthia Driscoll Scholarship** honors a woman who served the Section as Chair during the last courageous year of her life.
- The **Doane Family Scholarship** established by Jim Doane, a long

time PNWS member and engineer serving in both public utility and consulting practices.

- The **Wubbena Family** scholarship established this year by Bob Wubbena, another long time PNWS member and engineer serving in water supply consulting practice.
- The **NW Washington Subsection Scholarship**.
- The **Past Chairs Scholarship** honors past Chairs of the Section.
- The **RH2 Engineering Scholarship**.
- The **Southern Oregon Subsection Scholarship**.
- The **Al Alsing Scholarship, new this past year**, honors the public works director of the City of Ashland who served as AWWA National Director
- The **Legacy Scholarship** collectively honors individuals who not yet reached the "endowed" status for a separately identified Scholarship.

So what's in it for YOU? You can:

- *Donate to the E & T Fund.* It is a great tax-deductible way to help the next generation of leaders enter our field. Remember the Board-established matching funds for any donations over two years, and this opportunity is still available!
- **Support and encourage co-workers, friends and friends of friends to apply for one of the scholarships. Applications for the 2016-17 academic year will be available in January on the Scholarship Committee webpage.**
- *Convince your Sub-Section to support the E & T Fund or establish a scholarship program within your Sub-Section.*
- *Sponsor a scholarship of your own, or*
- **Apply for a scholarship and continue your own education.** 

Dave Leland
david.e.leland@state.or.us

Water Conservation Committee

Summer Committee Meeting

The Water Conservation Committee held a one-day summer meeting in Bend, Oregon on Thursday, August 27. The topic of the day was drought management through water conservation innovation and technology.

We kicked off the meeting with a great presentation on recent product advancements in irrigation efficiency from Jon Luoma, the national irrigation product manager for Ewing Irrigation.

This was followed by an informative discussion on drought in the Pacific Northwest. We had a roundtable discussion on how drought has impacted each of the communities we represent. After lunch, we listened to a presentation on the science behind the Turfgrass Water Conservation Alliance (TWCA) and their water conservation efforts by Jack Karlin, the Program Administrator for the TWCA.

We then drove to one of Bends local parks and participated in a tour of their Baseline irrigation system. Bend Parks & Recreation Landscape Manager, Clay Pendergrass demonstrated how the Parks utilize the Baseline system and how it has saved water and money for the district.

After the meeting and training, committee members met up to have food and drinks at the Crux Fermentation Project. This was a great chance to relax and enjoy good conversation with fellow water conservation professionals and friends.

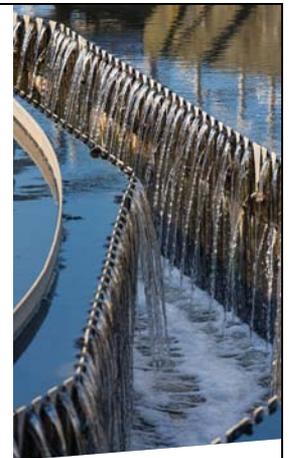
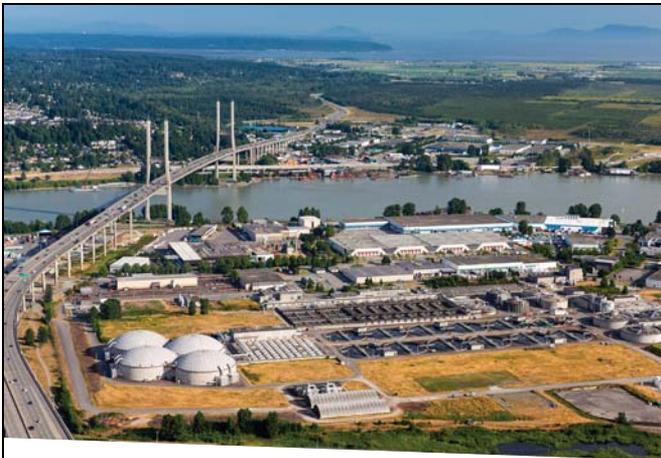
Topics Discussed

During the meeting we discussed the next year's budget, holding commercial water audit training, the abstracts that were submitted for next year's conference in Boise, training options using webinars and how to create more member involvement in the water conservation committee.



Stay Connected and Informed!

Want to join the Conservation Committee or receive emails about upcoming meetings and events? Please contact Committee Chair, Julie Smitherman for more information smithermanj@ashland.or.us or Vice Chair Mike Buettner at mbuettner@bendoregon.gov. 



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Water Resources Committee

The PNWS-AWWA Water Resources Committee (WRC) is focused strongly on our mission to: *“Provide a forum for information exchange about water resources issues for drinking water supply in the Pacific Northwest.”*

The WRC was hard at work this summer developing forums for Fall 2015 to Spring 2016. Our programming objective is to share experiences and expertise, and discover innovative solutions together. The WRC is actively engaged with other PNWS Committees to develop these forums around the themes of *‘Drinking Water Supply Resiliency’* and *‘Building a Resilient Water Utility.’* The Boise Conference theme of **‘May the Source Be With You’** feels like a

great fit with the WRC’s current themes and we are excited to work forward on it. We hope to have completed a Pre-Conference Seminar on Drought Planning and Climate Change for Boise along with two or more Technical Sessions on Non-Traditional Approaches to Supply Resiliency, Managing a Water Supply Portfolio, and Water Quality Issues for Water Supply Sources.

We are targeting a noon time webinar for mid October on a topic of water supply resiliency and sources in the near term and longer term view. Be sure to check our website for Announcement of this upcoming webinar as you read this. Plans will be finalized in late September.

How to Get Involved with the Water Resources Committee:

- **Monthly Water Resource Committee Meeting:**
We meet every third Thursday of the month from 3:30 to 4:30 pm, via the Internet, phone, and in-person. The monthly meetings are where topics of interest are discussed and explored for development into webinars, technical sessions and workshops.
- **Quarterly Networking Socials:**
The socials are opportunities to network and discuss personal perspectives around contemporary water resource issues. Our next one will be in January 2016.
- **Lunch-n-Learn Webinars or Workshops:**
Water resource professionals are invited to share their experience and expertise with PNWS-AWWA through our Water Resources Committee and its network. Webinar technology allows us to bring the experts to your office. In some cases the topic is too broad or too complex for an on-line presentation and a workshop is organized. Past events and some presentations are posted under Workshops and Webinars on the Water Resource Committee website.
- **Annual Conference Technical Sessions:**
For many years the Water Resource Committee has assembled panels of regional and national experts to share challenges common to many of us and the unique solutions they discovered. All interested parties are encouraged to join us, listen in, and provide input on water resource planning issues of interest to the region and its water purveyors. For more information on WRC events please visit the website <https://sites.google.com/a/pnws-awwa.org/water-resources-committee/home/announcements>. To join into the WRC or get onto our e-mail distribution list please contact John Lambie, Committee Chair, at E-PUR 503-954-2096 or jlambie@e-purwater.com. 

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Young Professionals Committee

Engage Your Local Young Professionals.

The Pacific Northwest Young Professionals (YPs) have organized several fun networking and educational activities this past summer and are continuing to plan for the upcoming fall. Now that school is back in session, there is a fresh opportunity to reach out to college students in your area about PNWS-AWWA and careers in the water industry. YP events are a great chance to learn powerful skills to enhance your career and network with other like-minded professionals and students. Think about what you could do in your area to increase YP participation.

Career Fairs At a Career Fair Near You!



Young professionals are ramping up their presence at career fairs across the section. Last year several of our YPs partnered with their local subsections and tabled career fairs at Universities and Colleges across the Pacific Northwest. Now that school is back in session it's time to start preparing for events in the coming year. Job fairs are great opportunities to provide information to students on the types of jobs that are available in the water industry. It's also a good time to talk about how to get involved in the Young Professionals Committee, how to start a Student Chapter, and how to participate in the AWWA Fresh Ideas Poster Competition at the PNWS Annual Conference. For more information on how you can participate in career fairs in your area please contact Kevin Wyckoff, at Kevinwyckoff@gmail.com.

PNWS YP Sub-Section Events The City of Gresham and Murray Smith and Associates Cedarville Pump Station Tour & Happy Hour



On Thursday July 9th the City of Gresham and Murray, Smith & Associates (MSA) generously sponsored a tour of the Cedarville Pump Station followed by happy hour at McMenamins Highland Pub. The City of Gresham and MSA hosted a technical presentation and tour of the new Cedarville Pump Station and 16-inch diameter waterline bridge crossing. Approximately twenty people attended the event with several local YPs. This facility provides needed additional capacity to efficiently move ground water into the upper service areas of the City.

Northwest OR Subsection Willamette River Water Treatment Plant (WTP) Tour



There was a strong turnout for the Willamette River WTP Tour on July 10th in Northwest Oregon. More than 40 people attended for a GREAT presentation about the operation, history, and future of the plant by Mike Greene, WRWTP Manager, Jude Grounds, WTP Design Engineer and Jenn Minton Project Engineer. A tour of the facilities followed with group discussions on "engineering and water quality" and "treatment and operators." All in all, a huge success!

Northwest Oregon Subsection Weeknight Water Walk (WWW): Networking on Foot...



Walking and Talking on Our Water-Cooled Volcano on July 23rd- You have to enjoy water-cooled volcanoes while they still exist. Maybe that is why the view of Portland across the top of Mt. Tabor's reservoirs feels like such a treat. What a cool volcano on a sunny weeknight walk. People came by bike, on foot and from Hillsboro to enjoy the park and conversations about everything from Peace Corps water projects to Intel's ultra pure water. Also, don't forget that summiting a volcano is the best low-impact exercise in town. Most walked the few blocks afterwards to enjoy Pizzacato pizza and arugula pear salad. Thanks for the hosting, PNWS section. Wonderful Weeknight Water Walk it was. Watch for the next WWW event... Contact Taylor Stockton for more information on future events, at taylor.stockton@puralytics.com.

Northwest OR Subsection Annual Summer BBQ



The YPs of the Northwest Oregon Subsection hosted their Annual Summer BBQ on Thursday August 13th at Laurelhurst Park in Portland. About 15 people came to mingle with a great network of local Young Professionals and to have delicious food catered

by Hog Wild BBQ. The event was generously sponsored by Century West Engineering and PNWS YPs.

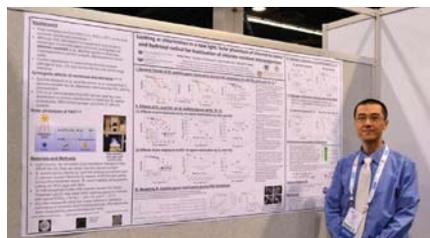
PNWS Upcoming Events Young Professionals Summit, Vancouver, WA November 6, 2015

The Pacific Northwest Young Professionals have decided to host our very own mini YP Summit right here in the Pacific Northwest. The event will be held on November 6, 2015 at the Water Resources Education Center in Vancouver, WA. This will be a half day event that will address topics such as, tools needed to grow your career, how to create good habits and how to talk to stakeholders. Stay tuned to our Facebook and YP committee page for updates regarding this event. For more information, please contact Jennifer Garbely at jennifer.garbely@msa-ep.com.

Young Professional Accomplishments 2015 National Fresh Ideas Poster Competition Anaheim, CA

Fresh Ideas Poster Competition

Update: Peiran Zhou earned the 1st place prize in the Fresh Ideas competition at this year's PNWS



conference in Bellevue. He won a paid trip to the National AWWA ACE conference in Anaheim this past June to present his poster titled, "Looking at Chlorination in a New Light: Solar Photolysis of Chlorine to Ozone and Hydroxyl Radical for Inactivation of Chlorine-Resistant Microorganisms." Peiran represented the PNWS very well at ACE and brought home the **3rd place prize!** Congratulations Peiran!

Here is what Peiran had to say about his experience:

I was happy and excited to present our work at ACE 2015 in Anaheim, CA. ACE 2015 was a large conference with knowledgeable individuals from both industry and academia. I enjoyed the talks about direct potable reuse, innovative way to remove chromium VI from water, and etc. I also enjoyed visiting

vendors to see the state-of-the-art equipment used in waster industry and labs: water meters that can send data to utilities automatically and probes that simultaneously measure several chemicals, amongst others. In addition, ACE was a great networking opportunity for me to connect with people in water professions and explore different paths in the water industry. I felt very fortunate to have this great experience.

Stay Connected! 2020 Vision: Profoundly Uniting YPs and the Water Industry

After receiving a request for support by the new Chair, Randy Black, the Young Professional's put their minds together on how greatly improve the connection between young professional's and the water industry. We will be focusing specifically on uniting multiple generations of water industry professionals by helping employers attract and retain talent and to support students and YPs find fulfilling work.

Interested in getting involved? Below are two ways you can.

1. Contact Kevin, our Career Fairs Coordinator, at kevinwycoff@gmail.com to learn about hosting a career fair at your local high school or college.
2. Partner with your local YP Subsection Liaison to plan and host an event for students and YPs such as a site tour, trivia night, expert panel, and beyond. Contact 2020 Vision Coordinator, Meredith Noble at 509-340-1714 or Meredith.noble@stantec.com.

Follow us on Social Media

The Young Professionals Committee has increased its presence on social media. With an active Facebook and Twitter account, we are working to reach more people in real time. By posting directly to the pages of colleges and universities around the section, we can extend our message to a wider student audience. We keep you up-to-date on YP events around the section, training opportunities, job opportunities, and relevant industry news. Also, check out our events calendar on the PNWS website for information on upcoming YP and Student events at www.pnws-awwa.org. To submit information on events and/or pictures please contact Natasche O'Brien Legg at nleggrrwc@gmail.com.

Follows us on Twitter @PNWSYP and visit our Facebook page PNWS of AWWA Young Professionals to stay connected!

Participate!

Want to join the YP Committee in our efforts to connect students and YP's with PNWS-AWWA? There are lots of ways you can help, event planning, leadership roles, career fairs, scavenger hunt planning, helping get a student chapter going, and beyond! Contact YP Committee Chair Julie Smitherman for more information smithermanj@ashland.or.us.

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Subsection Advisory Council

I have been asked a few times recently, "What is the SAC"? or "What does the SAC do"? So I thought I would take this opportunity to explain some of the basic responsibilities of the SAC or the Subsection Advisory Council. When I was asked three years ago if I wanted to be on the SAC, I really did not understand what the SAC was myself. I knew that the SAC put on training sessions for the 12 subsections at the Winter Trustee meeting, but beyond that, I had no clue.

I think most people involved, at least at the Section level, have heard that there is a subsection officer training day the first week of February at the Winter Trustee meeting. This training can cover anything from subsection budgeting to explaining how the AWWA is structured; from National down to the Section as well as the subsection level. Also discussed are challenges that face each subsection, how to update YOUR subsection website or by-laws and even how to promote subsection events on social media.

Another responsibility of the SAC is to coordinate the various competitions that are held at the Section Conference in May each year. Top Ops, Gimmicks and Gadgets, Meter Madness, Tapping and Best Tasting Water have their

own coordinator, but their budgets and planning runs through the SAC. The SAC also chooses the Subsection Activity Award winners from people nominated by their subsections for outstanding work at the subsection level. There are also scholarships that are awarded for the Section Conference and those requests come into the SAC and are awarded during the conference each year.

The SAC is made up of three officers, the Chair, the Vice Chair and the Secretary as well as each competition coordinator. Currently, the officers are myself as Chair, Tonya Reiss as Vice Chair and Doug Schlepp as Secretary. Coordinators are Doug Priest-Top Ops, Gerald Arredondo-Meter Madness, Loren Searl-Tapping, Mike McClenathan-Gimmicks and Gadgets and Kyle Thompson-Best Tasting Water. Jacki Masters is our Section Trustee contact.

Since each subsection needs to have a representative (usually the Chair) to give their annual subsection report at the Winter Trustee meeting the day following the SAC training, there is usually at least one representative present at the training as well. Actually having a representative at the training and giving

a report at the Winter Trustee meeting is required for a subsection to get their annual allotment from the Section. The allotments are tracked through the SAC and then the allotments are dispersed out of the SAC budget.

If you are working at the subsection level as an officer or on a committee and have aspirations of becoming a subsection officer then you should really try to make it to the Winter Trustee meeting and SAC subsection officer training February 3-5, 2016 in Vancouver, WA. One of the topics we will be discussing will be how to get more participation at all of the competitions at the Section Conference in Boise this coming year and how we can get more competition involvement from each subsection as well as competitions at subsection meetings. Other topics you may see on the agenda are membership, budgeting, reporting to the Trustees and I can guarantee that you will meet someone new.

It is a little early to be talking about the Winter Trustee meeting when fall is still in the air, but we wanted to be sure to get it on your calendar early and get you thinking about the competitions early this year. If you have any questions, contact Max Woody (SAC Chair) maxwoody@centralpointoregon.gov.



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Northwest Washington Subsection

2015 Training Schedule

The Northwest Washington Subsection will be sponsoring training for operators, engineers and managers in the Fall of 2015. Events scheduled so far include:

Water Treatment Workshop – Wednesday, October 14, 2015 at Alderwood Water & Wastewater District, Lynnwood, WA. Fee will be \$70/person for member (AWWA or WEF), \$90/person non-member. 0.6 CEUs. The workshop will focus on filter optimization, startup and commissioning experience at Tacoma's new Green River WTP, updates for the Revised Total Coliform Rule and the fluoride program, and DOH's disinfection data integrity project. Registration will open in early September and a link will be posted on the Northwest Washington Subsection webpage.

NW Subsection Annual Planning Meeting – Thursday, November 12, 2015

12pm – 1pm @ Skagit PUD, Mount Vernon, WA. Come help us plan our training events for 2016 and get lunch on us! Have a recommendation for a training course we haven't offered? Want a workshop repeated? Come join us to share your ideas and training needs.

Please RSVP by November 10 to Bridget August at baugust@geoengineers.com. If you can't make the meeting, we still want to hear from you. Please send your ideas and feedback to Bridget.

Basic Waterworks Workshop – October/November 2015 in Port Angeles, WA. Fee will be \$68/person for member (AWWA or WEF), \$78/person non-member. The workshop will provide an orientation to water utilities and water quality protection for new employees to the utility including treatment plant

staff, distribution crews, office staff, engineers and others.

Northwest Washington Subsection's Wine for Water

Thank you to all the people who attended the recent annual NWWA 4th Annual Wine for Water fundraiser for Water For People at the Carpenter Creek Winery in Mount Vernon. A special thanks to the sponsors and people who donated items for the silent auction. All of your effort, donations and caring made this another successful event!

For additional information or to sign up for email notification for these or any Northwest Washington Subsection workshops go to the subsection webpage on the Section's website (www.pnws-awwa.org) or contact Jeff Lundt at jeff.lundt@kingcounty.gov or 260-477-5582.

King County Subsection

The King County Subsection had a golf networking event on September 18. If you didn't attend, please mark your calendar to check in next summer for the date and time. There is a training event titled 'Making the Most of your Ductile Iron Pipe' scheduled for November 10 at the City of Seattle Joint Training Facility and a training session on Regulation Updates is currently being scheduled, hopefully in October. CEUs will be requested

for both topics. More training sessions are planned and will be posted on the PNWS-AWWA website as details are worked out. We are planning to post subsection meeting minutes on the website starting with our most recent meeting as we work on full integration with the Section's tools.

We have a YP liaison, Lynne Williams, who attends most meetings and having a liaison has been a great mechanism for communicating and

planning joint events. We recommend that all subsections have a YP liaison. As we all know, we need to have more younger members actively involved with AWWA to make it the best organization it can be. The YP connection is a great tool for the future as long as you have a YP member in your subsection willing to take on that role. If you don't, that is a great opportunity to recruit one!

Southern Oregon

The Southern Oregon Subsection held its 3rd annual Water For People golf tournament on Friday and Saturday August 7 and 8 at Stone Ridge Golf Course. Friday was a practice round with a free salmon feed hosted by Ed Olson and company. Saturday was the main event with 18 holes followed by a lunch and raffle giveaway. Several Section 'Big Cheeses' were in attendance along with many private sector supporters. From hacker to pro, a good time was had by all. 



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Green design features reduce carbon footprint of Lake Oswego and Tigard's new water facilities

Being green is not easy, but the Lake Oswego Tigard Water Partnership was determined to incorporate energy-efficient elements in the design and construction of its \$254 million water supply system.

In 2008, the cities of Lake Oswego and Tigard joined together to form a partnership to replace, upgrade and expand Lake Oswego's old and under-sized water supply system infrastructure, to ensure a long term, reliable supply of high-quality drinking water for both communities.

Partnership facilities under construction, including a new river intake pump station (RIPS) on the Clackamas River in Gladstone, an upgrade at the water treatment plant (WTP) in West Linn, a new reservoir in Lake Oswego, a new pump station in Tigard, and more than ten miles of large diameter welded steel pipe through four communities were designed with green attributes in mind and a requirement for a minimum 75-year operating life.

River Intake Pump Station - Gladstone

The Partnership recently received an Energy Trust award for implementing energy saving features into the new RIPS. This included installation of variable frequency drives (VFDs) for the pump motors at the new pump station.

VFDs allow the pump station to minimize energy demands and work more efficiently to achieve the daily flow requirements. The VFDs enable the new pumps to operate at different speeds to match water system demands. In addition, VFDs reduce wear and tear on motors, thereby decreasing maintenance costs and prolonging equipment life.

With the installation of the new VFDs, this facility will reduce its energy consumption footprint by more than half a million kilowatt hours per year.

In addition, new fish screens at the intake, along with river channelization that was completed upstream of the new structure, make the new RIPS

much more "fish friendly" than the previous intake. Extensive native species and shrubs were also planted in nearby Cross Park, and will be planted at the RIPS this fall.

Water Treatment Plant - West Linn

Green design features and sustainable construction methods abound at the new water treatment plant:

- A Large solar panel array installed on the new electrical building has 110 panels and a 30 kilowatt capacity. Power produced by the array is distributed to the treatment plant grid. Unused power is distributed back into PGE's grid.
- Energy efficient LED lighting installed in all new structures.
- VFDs on three pump motors and reduced voltage soft starters on two motors, reduces the energy consumption footprint at the plant by more than one and a half million kilowatt hours per year.



Solar panel array on the electrical building at the new water treatment plant



VFDs for the pump motors at the new intake

- Garden roofs on the finished water pump station, electrical building and administration building reduce storm water runoff and roof temperatures, thereby reducing heating and cooling needs.

- Screw presses instead of commonly used centrifuges to de-water plant solids saves an additional 32,000 kilowatt hours per year.
- A water source heat pump uses water produced in the plant to provide building heating and cooling saving additional energy over conventional roof-top heat pumps.
- During demolition of the existing buildings, all concrete is crushed and reused on site, steel is sent to an offsite recycler, and wood is sent to a chipping facility for reuse.
- The wash water recovery basin recycles water used during the filtration process.
- The sand pumps recycle sand in the ballasted flocculation process.

- Pervious materials used for driveways and sidewalks reduces runoff and, on-site swales and ponds allow rain to infiltrate and replenish groundwater.

Waluga Reservoir 2 - Lake Oswego

- The site underwent extensive invasive species removal, which was replaced by native trees, shrubs and flowering plants. Native plant materials require less water and maintenance, while providing habitat and food sources for local wildlife.
- Excavated rock was crushed and reused on site.

Bonita Pump Station - Tigard

- Invasive species were removed onsite and a vegetated corridor was created around the pump station, which acts as a buffer zone to protect the surrounding wetland area. Native erosion control grass and a variety of native plants, selected from the Clean Water Services approved list, were installed at the site to help enhance the wetland area.
- Skylights help reduce the need for conventional lighting
- All pump motors utilize VFDs and reduced voltage soft starters.

More than ten miles of large diameter, welded steel pipeline - Gladstone, West Linn, Lake Oswego, Tigard

- Hydraulic analysis methods were used to optimize design for maximum flow efficiency and reduced pumping costs.
- High performance coatings and linings were used to minimize friction losses in pipelines and protect against corrosion.
- Double lap welds on every joint provides a high degree of protection against seismic forces.
- Cathodic protection systems supplement high performance pipe coatings for increased corrosion protection and longevity.

Designing green takes more effort, however, these techniques allow the Lake Oswego Tigard Water Partnership to plan for current and future water needs in a responsible, environmentally-friendly manner. 



Native species and grasses were planted at the Bonita Pump Station

Sometimes old is just, well — old

The developed world is changing fast and the rate of change is accelerating. The utility industry is ripe for efficiency (read FTE reduction) – similar to what happened to the phone operators and typing pools in the 1990's. Recent advances are putting the need for much of the skilled labor (engineers, craftsmen, and operators) in question. Computer speed, battery capacity, and ever better GPS guidance systems will quickly make possible such things as:

- Dump trucks and backhoes that drive themselves to a work site – along with a construction shack. All that just shows up when the crew is to arrive (which could be just two or even one person).
- The pipe and fittings arrive at the same time on their self-guided flat bed – after being loaded automatically the night before using a computer takeoff from the plan set, while taking into account exactly where the work ended the previous day.
- The backhoe has the plan set loaded into its computer and automatically digs the trench using ground-penetrating imaging from sensors on the bucket to safely avoid conflicting utilities.

- The crew sets pipe & services by directing work using voice commands to the hoe and any loader on site.
- Dump truck detects when it is getting full and calls for a replacement to be on site when it is full.
- All this automatic machinery are smaller and more maneuverable because they do not need accommodations for people to drive them. Most of them are electric & quietly move through neighborhoods.
- We are already using automated design programs that produce color 3-D plans – often with only the input of the engineer – i.e. no CAD operator. It is only a small step to not need the engineer, except for a final review.
- Drones already can do survey and mapping. It is a very small step to have then distribute notices to customers' doors, read meters, inspect pipeline easements for encroachment, respond to entry alarms, shut off valves to isolate mains with leaks, etc.

It does not take much of an imagination to visualize a utility operated by what is now the managers, supervisors, and the customer service/billing people. That would be assuming someone does not make a robot computer to

answer the phones that won't make our customers mad.

Utilities operated by 10% of their current staff due to technical advances would be considered a fairy tale as little as 10 years ago, but with news every day of self-driving cars, long life batteries, vastly improved computer voice recognition, Amazon using drone deliveries, etc. - it does not seem so far away.

Lamenting change that is more efficient and provides better service, is not worth much. Sometimes old is just old and needs to go into the historical display to become another one of the "I can't believe they used to really do that" items.

The wisdom of the past for this issue is that when machines take the work of the skilled middle class, it can leave the population divided into educated, well paid workers and unskilled, very low paid workers. That has happened before in human history and, if the well paid are few and the low paid are many, it has not worked out very well. Providing upward mobility training to our staff to transition them to the remaining higher skilled and paid jobs will do our part in making technical advances a true benefit. 🤖

Bob Willis
Past Chairs Committee



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Learning from the past

As I was pondering what to write for this issue of Water Matters, these thoughts came to mind: We have a propensity to think that past generations didn't know as much as we do, and every generation seems to need to create the world anew. Perhaps this is why we as a society tend to ignore the aging infrastructure that past generations built.

What triggered this, you might ask? Well, I have been reading the 'Specifications of Works for the Water Supply of the City of Portland, Oregon.' Written in 1886 by Isaac W. Smith, the first Chief Engineer for the Portland Water Bureau. This is a small bound book (39 pages) that lays out the specifications for contractors to bid on the building of the Bull Run water system. Yep, all of 39 pages for the first conduit to bring water 31 miles to all of Portland, including headworks, the road, bridges, the conduit, in town reservoirs, and pipe under the Willamette River.

Isaac Smith certainly didn't have the tools we have today (no computers, no LiDAR, no aerial photography, etc.) — just basic surveying and hand calculations (lots of hand calculations). But he knew a lot as the specifications show. He included specific details on the roadbed, bridges, laying of pipe under the Willamette, building the reservoirs, and,



of course the pipe itself. (Ah, those who have been reading this column know that sooner or later I would get to the pipe.)

He was very particular about the pipe — no defects (splits, flaws, blisters, or rust) allowed, uniform thickness and weight per square foot, and no rust. After the pipes were tested and entirely free of rust, the coating was to be "perfectly smooth, tough, and homogeneous; to adhere tightly to the iron, not to become brittle when cold or to run or drip when exposed to the sun; and to have uniform thickness on the inside and outside of the pipe of not less than one-sixteenth of an inch". And there is a lot more - I can send you a scanned copy if you are interested.

Smith sent many telegrams (yep — pre-email fast communication) to the contractors making sure these specifications were met.

I guess what I want to say about what I have learned by reading this small booklet is that water people have cared about the quality of their systems for a very long time. It is a good reminder to our customers of how we got to where we are and how much people in water utilities care and pay attention to all the myriad details. 📖

Catherine Howells, *PNWS Historian*
chowells@pdx.ed

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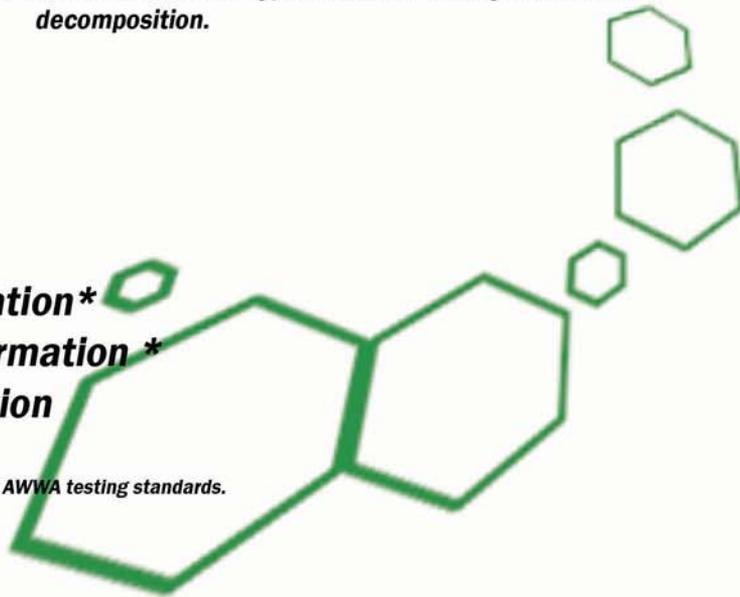
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What is Happening with the Oregon Water Utility Council (OWUC)

OWUC was very involved in this year's Legislative Session, which ended on July 6. OWUC also continued to hold its monthly meetings with members across the state. Continue reading to find out what we have been up to.

SB 712 and SB 971

In 2013, the Oregon Court of Appeals overturned OWRD's interpretation and implementation of permit extension statutes for certain municipal water use permits. An extension of time is a water rights administrative process to change the timeline to demonstrate full use of the permit. The court's opinion retroactively applies restrictive permit conditions for fish persistence to municipal water rights as part of the permit extension process, which could jeopardize municipalities' investments of public funds in municipal water supply systems.

OWUC worked this session with the Special Districts Association of Oregon (SDAO) and the League of Oregon Cities (LOC) to try to pass SB 712, which would have provided a legislative fix to the Court of Appeals decision. SB 712 would have modified and clearly defined what is meant by the "undeveloped portion of a permit." It also would have clarified the effective date for applying fish persistence conditions in order to avoid potentially reducing the amount of water a community has developed and spent public resources to treat and deliver to its citizens.

SB 712 was opposed by WaterWatch, and did not advance. At the request of lawmakers, SDAO, LOC, and WaterWatch met to try to come up with a compromise bill. The result, which did not have the support of LOC, was SB 971, which was similar to SB 712 but moved the effective date for applying fish persistence from 2013 to 2005. Lawmakers on both sides of the issue were dissatisfied and the bill failed to pass.

Municipalities affected by the Court of Appeals decision are continuing to examine their options moving forward.



Statewide Meetings

OWUC held its annual meeting in Medford in August, and will hold its annual meeting in Bend in September. The August meeting in Medford allowed members from Southern Oregon a chance to highlight the work they've been doing and to give in-depth updates on the conditions and challenges in their region. The September meeting in Bend will provide a similar opportunity for eastside members to share project updates and attend a meeting closer to home.

To find out more about how you can get involved with the Oregon Water Utility Council and keep abreast of legislation that could impact municipal water providers contact Kim Swan, the current OWUC Chair at kims@clackamasproviders.org.

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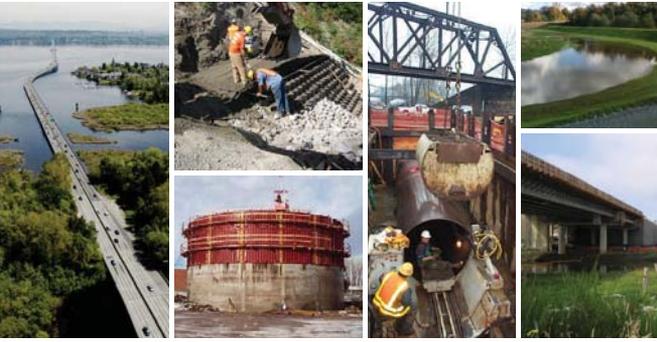
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CANDIDATES FOR OFFICERS 2016



Pacific Northwest Section Nominating Committee presents the following candidates for 2016. Look for your ballot in the mail soon. You will vote for one of the three candidates for Chair, as well as one of the candidates in **each** of the three Trustee categories: Oregon/Idaho, Washington and Trustee At Large. Each of the three trustee positions is for a two-year term. The Chair will serve one year as Chair-Elect, one year as Chair, and one year as Past Chair.

The successful candidates will take their place on the Pacific Northwest Section (PNWS) of the AWWA Board of Trustees in May 2016. They will vote on many issues that AWWA will face over the coming years. When you receive your ballot, please take the time to cast your vote for the candidates that you feel are most qualified to represent you on the PNWS/ AWWA Board of Directors.



CHAIR ELECT



Dan Kegley
City of Spokane



Jacki Masters
Mt. View-Edgewood Water Company



Brad Taylor
Eugene Water and Electric Board

OREGON/IDAHO TRUSTEE



Pat Van Duser
Black & Veatch



Max Woody
City of Central Point



Chris Young
DN Tanks

WASHINGTON TRUSTEE



James Dean
City of Yakima



Ronda Farmer
Spanaway Water Company



Pierre Kwan
HDR

TRUSTEE AT LARGE



Kevin Boggs
CH2M



Stephanie Raddatz
United Water Boise





CHAIR ELECT

Dan Kegley
City of Spokane

We are a strong Section and getting stronger every year. I am running for Chair to support our Association, Section, Sub-Sections, and Committees by providing continuity to various initiatives led by AWWA and our Section. I am committed to the high standard set by those before me and evolving as our member's needs change.

During my term of service, I will continue the 2020 Vision, an initiative started by Randy Black to grow our membership and address the rapid rate of retirement in our industry. I will continue to support high caliber training, networking opportunities, and the Section's philanthropic efforts. I will work to foster additional collaboration between committees and sub-sections to enrich the experience our members receive. If there's one thing to take away from this, it's that I will carry forward common goals to align our local and regional efforts with AWWA.

Arriving at this 'platform,' is largely driven by years of listening and learning from those around me. I am curious and continually amazed by the young people at the City of Spokane and at Section events, and deeply value the knowledge I continue to gain from our seasoned professionals. Serving

the Section as Trustee for the last two years has afforded multiple opportunities to listen to the voices and needs of those throughout the Section. I have intimately grown to understand our strengths and weaknesses. I am eager beyond words to support the areas where we absolutely excel and to help us tackle ways to be even better.

As I have traveled around the Section, I noticed a common theme that our members are kind, like-minded, and deeply committed to the mission of providing safe, reliable drinking water. Our collective success is dependent on healthy and vibrant committees and sub-sections. As Chair, I will work tirelessly to support your needs and to provide reliable, steady leadership. I welcome ideas, feedback, and criticism, as our Section continually strives to be better.

Before closing, I wanted to share a summary of my story. Throughout my personal and professional life, I have strived to embrace the character traits of responsibility, accountability, and follow-through. I began with the City of Spokane Department of Water and Hydroelectric Services in April of 1991 on the grounds maintenance crew replacing sod and pouring concrete

rings for meter boxes. I took my job seriously and knew that it mattered. I worked my way to a journey level field position, equipment operator, and finally into management. In 2013, I became the Director of Water and Hydroelectric Services where the learning continues. With AWWA, I have served multiple director positions for the Inland Empire Subsection. I am a past chair with the subsection and was honored when my peers awarded me the subsection activity award. I have also been involved on various Section committees including Customer Service, Distribution, Training Coordination, Program Committee, Local Arrangements and most recently Utility Management. I chaired the 2013 Local Arrangements Committee for the Spokane conference and received the Heart & Soul Award. I hold the Distribution Manager 4 and Cross Connection Control certifications. I love to fish, golf, and spend time with Maura, my wife of 27 years. I have two boys that still keep me guessing, Ian 25 and Eric 22. Of course I would be remiss if I didn't toss a shout out to my chocolate lab and the evil bulldogs; Thing One and Thing Two. I look forward to your support and continuing the mission forward.

Sincerely,
Dan

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CHAIR ELECT

Jacki Masters

General Manager, Mt. View-Edgewood Water Company

I am so honored to have the opportunity to serve as Washington Trustee and even more so to be considered to chair the PNWS. I have worked in nearly every aspect of the water industry over the past 36 years and am proud and passionate about the work we do. AWWA, the PNWS, and our subsections provide vital resources that enable us to do that work. Only by constantly refining and growing those resources will we meet the challenges facing all of us — aging infrastructure, environmental issues, and new and complex regulations just to name a few.

AWWA Involvement

- AWWA member for over 25 years
- Washington Trustee
- Subsection Advisory Council (Secretary, Vice-Chair, Chair)
- Customer Service Committee (Chair, Trainer)
- Public Information Committee
- Membership Committee
- Small Systems Committee (Vice-Chair)
- Lower Columbia Subsection (Secretary, Treasurer, Vice-Chair, Chair)

Other Organizations

- DOH Certification Advisory Committee
- Kitsap County WUCC (Chair)
- Water Purveyors Association of Kitsap (Chair)

- DOH Small Water Systems Advisory Committee
- Underground Utilities Location Center Advisory Committee
- Washington Operators Workshop (Chair, 2011; series chair – 2002 & 2013)
- Manchester Water District (commissioner, 1997-2000)
- Port of Manchester (commissioner, 1993-2000)

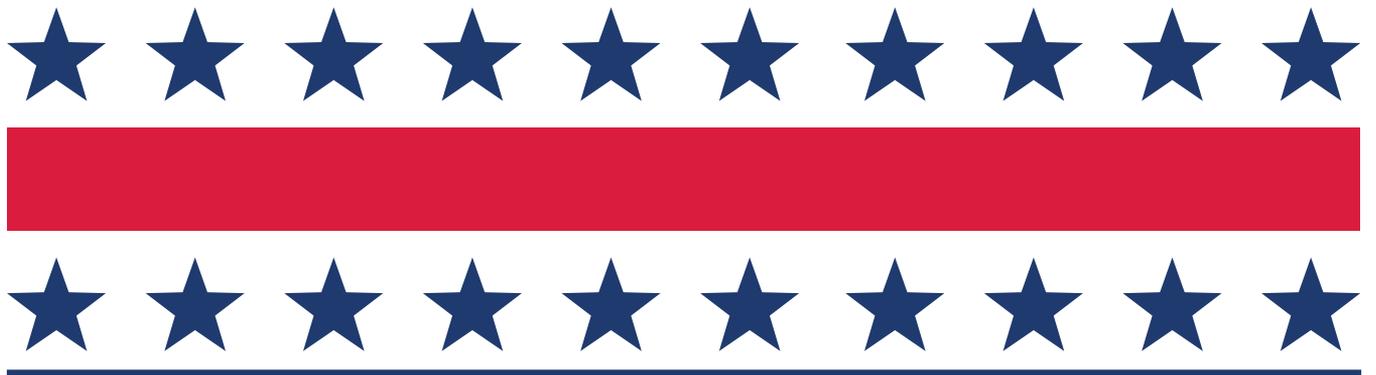
Education/Awards

- Washington State Water Distribution Manager IV
- Washington State Water Treatment Plant Operator II
- Washington State Cross Connection Control Specialist
- Washington State Qualified Sanitary Surveyor
- Washington Wastewater Collections Specialist II
- Kelso-Longview Chamber of Commerce Workforce Education Best Practice Award, 2011
- FEMA Professional Development Series
- U of W, Graduate School of Public Affairs - Public Executive Program
- "Outstanding Manager", 1991- Washington Association of Sewer and Water Districts

Personal/Hobbies: I have two sons, ages 25 and 32, and one grandson

who is the light of my life! I enjoy camping, reading, gardening, and spending time with my family.

My vision for the section: The Pacific Northwest Section is one of the largest and most active sections in AWWA. My vision for the PNWS is to sustain and enhance that position through engaging current members and promoting the section to non-members. The great work begun by our Past Chairs and the goals set by our current Chair must be continued. Growing our section by ensuring that every drinking water professional knows of the value of membership is fundamental to maintaining our position as the premier resource for the industry. Additionally, we must work toward finding ways to encourage interest in employment in the field of drinking water. Replacing retiring baby-boomers with trained and experienced water professionals is our next big challenge. We have made tremendous strides toward that end through the creation and expansion of the student chapters and the YPs. Our Chair's 2020 Vision initiative helps to delineate and develop those efforts even further. I would like to see that work continued and broadened as new information and technology is available.





CHAIR ELECT

Brad Taylor

Water Operations Manager, Eugene Water & Electric Board

AWWA Involvement

I have been involved with AWWA since 2002. During this time I have participated in numerous activities ranging from serving in leadership positions to attending National/Section conferences.

Some specific examples of my involvement are:

- Co-author of AWWA Annual Conference paper in 2005,
- Presenter at the 2005 and 2008 Coast to Cascade AWWA Short School,
- AWWA 'Water Matters' Washington DC Fly-in Participant-2013 and 2014,
- Secretary/Treasurer of **THE** Oregon Water Utilities Council (OWUC),
- Two terms as Chair of OWUC,
- Remain an active member of OWUC, and
- Currently serving as Trustee for Oregon/Washington-2014-2016

Other Organizations

In addition to involvement in AWWA, I have had the pleasure to serve in a variety of roles with other organizations. Some examples of other activities include:

- Served on the Board of the Long Tom Watershed Council (2007-20010), including one year as Chair of the Board of Trustees.
- Member of various water task forces, committees and work groups.
- Rocky Mountain Elk Foundation.

Education/Awards

In addition to my formal education, I believe my life experiences have prepared me for a career as a drinking water professional. Passion, leadership, listening skills, understanding of technical/political issues, desire to serve, and ability to develop partnerships are all values I hold high.

- Bachelor of Science in Environmental Resources Engineering from Humboldt State University in 1995.
- 1994 Homer Arnold Award in Applied Engineering for achievement in applied engineering design involving environmental and resource problems. Humboldt State University.
- 1992 California Irrigation Institute Scholarship Award; Scholastic record and essay.

Personal/Hobbies

Family activities with my wife Clare and our two sons (Owen and Finley) are the focus in my spare time. I have a passion for the outdoors, visiting covered bridges, cycling, fishing, hiking, trail running, and archery. I also enjoy photography, reading, and working on our property.

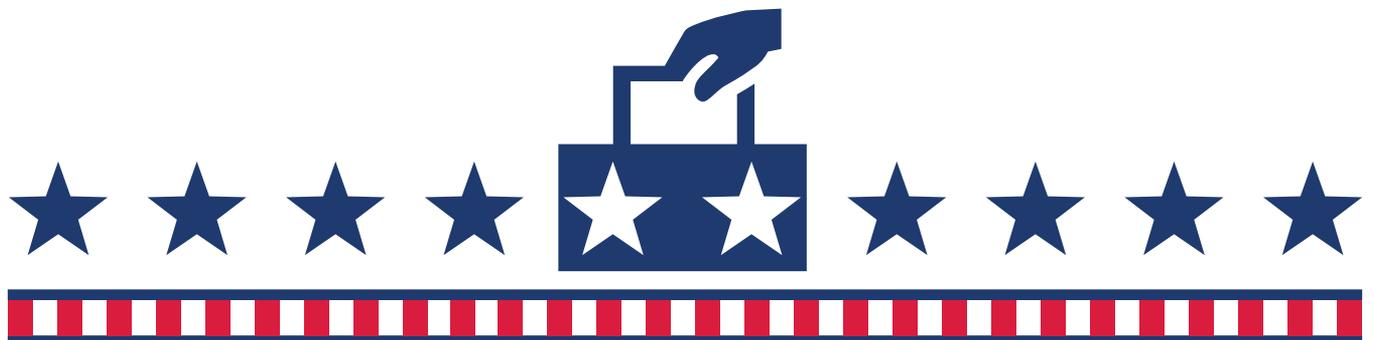
My Vision for the Section

Whether it is at work, home, or pursuing personal activities I'm inspired by people who carry passion in their hearts for what they do. In

general terms this is my vision for the Section is to connect with people who share in a passion for providing drinking water to our communities (locally, regionally, nationally, and worldwide). It is my hope that these connections strengthen our collective commitment and prepare our profession to face the challenges of today and the challenges of the future. In specifics there are three areas where I hope to apply my energy:

- 1 Knowledge Transfer.** How can we leverage the wisdom of our senior members and pass this along to the next generation.
- 2 Recruitment and increased involvement in AWWA.** Work to expand influence of our organization on young professions.
- 3 Build on training and educational opportunities for local subsections.** Provide ongoing educational opportunities at the local level.

Finally, I appreciate the opportunity to be a candidate for Chair as the Pacific Northwest Section of the American Water Works Association and look forward to serving our profession independently of the outcome of this election. Carry the passion and keep the drinking water flowing. Our lives depend on it!





OREGON/IDAHO TRUSTEE

Pat Van Duser, P.E. (Licensed in OR & WA)
Project Manager, Black & Veatch – Water

I am excited to run for the PNWS-AWWA Trustee position this year and for the chance to join the Board for our great Section.

I started my career in water in 1992 in Portland, Oregon and have had the opportunity to work on drinking water projects all over the Pacific Northwest. Thank you to all whom I have been fortunate to work with and learn from. I joined the AWWA and PNWS shortly after beginning my water engineering career. Over time my role on project teams evolved and I worked more and more closely with the larger drinking water industry – as a partner with cities, water districts, and utility districts, working with agency leaders, plant operators, and other engineers.

Commitment to PNWS

What I love about my career in the water industry and my membership in the PNWS-AWWA is the teamwork that is required to bring drinking water to our communities. The Pacific Northwest has the best drinking water in the country and I am so proud to be part of the remarkable community of water professionals – from source to design to tap – that is responsible for providing and maintaining this resource. My love of this community has motivated me to be a leader for membership growth within the PNWS. I founded the NW Oregon Subsection Membership Committee, joined the PNWS Membership Committee, and became chair of the Section Membership Committee in 2012. In this role, I have focused on growing the PNWS by creating connections between college students, recent graduates and young professionals beginning their water careers and the PNWS community. This pipeline of new professionals into the drinking water industry is key to meeting the future challenges we face.

I have consistently participated in PNWS Conference planning, beginning in 2006 with planning the first Young Professionals Scavenger Hunt in Vancouver, WA, participating in the Local Arrangements Committee for the 2009 Conference in Salem, helping launch the History early bird in Eugene 2014 and continuing to plan Section Membership Committee conference activities to this day. I regularly participate in college workshops for career planning through the PSU Student Chapter of AWWA and through Membership and the Young Professionals to be a career development resource for recent college graduates.

I am co-chair of the National Engineers Week High School Program in Portland, an annual program that reaches out each year to over 350 local high school students with interests in science, technology, engineering and math. In 2007, I connected the PNWS to the event and now AWWA reaches out to high school students in the region, to share information about drinking water careers.

Meeting Future Challenges

The drinking water industry faces many challenges in the future, from maintaining and improving our drinking water infrastructure to preparing for the Cascadia Subduction Zone earthquake to negotiating the impacts of changing climate on our water supplies. Our ability to work through these challenges and problem solve is dependent on the strength of our industry to be educated on these issues, partnered on solutions, and knowledgeable, active representatives to the public. I support growing our partnership with the PNCWA and reaching out to other

organizations where we can mutually benefit. The PNWS has excellent resources to meet the challenges we face as a community – through the strength of our continuing education programs, the passion of our members, and the combined knowledge of our membership. I would like to grow our Student Chapters by reaching out to more diverse university and college departments including sciences, communications, and business to seek the graduates we need to grow into future leaders within the water industry. AWWA is a unique professional organization because it includes, for example, operators, customer service professionals, water quality samplers, planners, designer engineers and equipment manufacturers: folks from the public sector and the private sector. The organization reflects ALL of the people responsible for bringing drinking water to our taps, and so the organization is comprised of the right people to continue our long history of providing the best drinking water in the country.

Personal

My partner Tova and I have a joyful 16-month old daughter. We are enthusiastic if not accomplished hikers, bikers and campers. I still play basketball and Ultimate Frisbee regularly and dream of the day I can take my daughter backpacking in Olympic National Park.

I would be honored to join the Board of the PNWS. I would be honored to be chosen by you to help lead the PNWS and AWWA in tackling our industry challenges, growing our Section and developing new drinking water experts for our Section.



OREGON/IDAHO TRUSTEE

Max Woody
City of Central Point

I have worked in the water industry and for the City of Central Point for the last 14 years. I really enjoy being a public servant, specifically working in the water industry. Supplying drinking water to the residents of Central Point is a very rewarding job and being involved with the PNWS makes it that much more special. PNWS members are passionate and dedicated people and that is what makes our Section one of the strongest in the AWWA.

PNWS Involvement

- AWWA member - since 2007
- Current SAC Chair
- SAC officer (Secretary, Vice Chair, Chair) 2012 - present
- 2014 Local Arrangement Committee – Eugene
- Manufacturers, Suppliers and Consultants committee member
- Water For People committee member
- Southern Oregon subsection Chair 2011/2012
- Southern Oregon subsection officer 2007 – 2012
- Southern Oregon Water and Wastewater Short School committee 2009 – present

- Southern Oregon WFP liaison 2012 – present
- Southern Oregon Golf committee 2012 – present

Licenses and Organizations

- Oregon Health Authority Water Distribution III
- Oregon Health Authority Cross Connection Specialist
- Rogue Basin Utility Coordination Council 2006 – 2010
- American Backflow Prevention Association 2011 – present
- Southern Oregon Mafia member - since the beginning!

My Vision for the Section

One of the biggest challenges that I see facing not only the water industry in general, but also the PNWS is getting and keeping young people interested in the water industry as they choose their path in life. The Section has a very strong and vibrant group of YP's (Young Professionals) and continuing to keep them excited and involved is paramount to facing the aging workforce and retiring baby boomers. There are numerous ways

that the YP's and the PNWS already strive to tackle this challenge, but I feel that we can continue on the path and take it to new levels. A few ways that I see we can do this is by continuing the membership drives at the various colleges throughout the Section, being sure that there are ample scholarships for trainings and schools that are offered within the Section and by using networking events at every opportunity to put YP's face to face with prospective employers.

Family/Hobbies

I have a 23 year old son that is currently pursuing his MBA and coaching football at Eastern Oregon University in La Grande Oregon. In my free time I love to hang out with friends and family while rafting, hunting, watching football, playing golf and most recently playing pickle ball. I also have been known to have a shot of Fireball from time to time.



OREGON/IDAHO TRUSTEE

Chris Young
Regional Manager, DN Tanks

Every year, I look at the list of candidates to serve on the AWWA Board of Trustees and I am always blown away by their merits and accomplishments. I feel blessed to be in extraordinary company and it is truly humbling and an honor to have the opportunity to run for the position as your Oregon/Idaho Trustee.

My career in the Water Industry and my start with AWWA are still relatively young as they began six years ago in 2009. My first PNWS AWWA Conference was in Salem as a Manufacturer and though the enthusiasm and communal atmosphere was apparent throughout the conference, the Young Professional

Scavenger Hunt is what really hooked me! At the time, though I would not have considered myself a shy or easily-intimidated person, it was difficult to fathom that I could contribute and be a leader in the Association. During that event, I met a great friend and mentor in Corianne Hart, who also convinced me to join the Young Professional Committee. Since that

first conference, I have been an active member of the Young Professionals Committee served as the 2014 Program Committee Vice-Chair and as the 2015 Program Committee Chair.

I am fortunate that my career affords me the opportunity to travel within my territory. My position has allowed me to interact with many diverse organizations and water/wastewater professionals. Outside of the Pacific Northwest Section, I am currently an active member of the Intermountain, Western Canada, British Columbia, Hawaii sections of AWWA. Within the Pacific Northwest Section, it has been a pleasure being able to participate at various subsection events throughout Oregon and Idaho. My takeaway throughout all of the different organizations, sections, subsections is that their main draw and strength is that they connect people.

The PNWS section of AWWA provides amazing resources including great training and education, scholarship and volunteer opportunities, and leadership. However, the most difficult resource to provide to a person is one that they did not know they needed. As an industry we face new challenges every day and we must make sure that we provide our members with access to the resources they need to meet them head-on. Also, with so many leaders and innovators in our organization, we must allow for our members to communicate their knowledge and expertise to those who seek it. I think back to that first meeting where I was roped into volunteering for the Young Professional Committee. At the time, I didn't know I could make a difference or that AWWA would be a necessary

and important part of my life. It took someone to guide me to help me find my place within the organization. It would be my honor to give back and identify ways in which we can connect our members better so that they may be better prepared professionally and personally within the drinking water industry.

Personal/Hobbies

At the time of writing this, my wife Quynh and I have been married for less than a month! Together we enjoy traveling and are still getting used to the words "husband" and "wife". I generally enjoy most any activity but you will mainly find me running or rock climbing (indoors, I am still a chicken outdoors!). If you throw on music you also might find me dancing when no one is watching!



WASHINGTON TRUSTEE

James Dean

CWSS President/Chair; Utility Services Manger, City of Yakima

I am honored to have been nominated as a candidate for the position of Washington trustee and I want to take this opportunity to thank the City of Yakima for their continued support and encouragement with my involvement in the Pacific North West Section of American Water Works. Throughout my years as a member of PNWS/AWWA I have had the opportunity to meet and work with some great people.

I began my career in the water works industry with the City of Yakima as a Water Distribution Specialists 1, general laborer, in 1997. I was able to work my way thru the ranks to an equipment operator, crew leader and was appointed as the Water Distribution Supervisor in

2008 and last was appointed as the Utility Customer Service Manager in 2013. During this time the training tools offered by AWWA and more importantly the members and great friends I have been able to meet and network with in the Pacific North West Section have been invaluable in my growth and development as a water works professional. In 2014 I was blessed and honored to receive the sections heart and soul award. I also served as the volunteer coordinator for 2012 section conference held in Yakima and will be repeating that role for the 2017 section conference to be held in Kennewick WA.

Now a little about me I began serving at the Subsection level in

2006 as the Central Washington Subsection Vice President and moved up to my current position of Subsection President in late 2009. During this time I have been able to help the Subsection, along with the other outstanding officers on the board, add a training coordinator position and also a Young Professionals liaison to the CWSS board of officers. In my time away from work I enjoy riding and customizing my Harley Davidson motorcycles, golfing, fishing and I am a diehard Dallas Cowboys Fan.

I am extremely proud to be a part of the Pacific North West Section and would be honored to serve as one of your trustees.





WASHINGTON TRUSTEE

Ronda Farmer

IT Support Specialist, Spanaway Water Company

Experience and Involvement

I have worked in the water industry for the last 15 years. I began my career in the water field as a Customer Service Representative and currently I am an Information Technology Support Specialist. Along the way I have had experience in all aspects of customer service from working in billing to database management, systems support and installation, meter reading systems and cross connection. I am also a Washington State Cross Connection Control Specialist. I have been a member of AWWA and the Pacific Northwest Section for the past 6 years. In that time I have been active in the South Sound Subsection, 2010 Local Arrangements Committee, Water Information Technology Committee, Training Coordination Committee and the Customer Service Committee. Currently I am serving as the President of the South Sound Subsection and Chair of the Water Information Technology Committee.

I have also recently taken on the role of Vice Chair of the Program Committee for the 2017 Kennewick conference. In May of 2012 I was honored to receive the Subsection Advisory Council's Activities Award and earlier this year in March I was awarded the South Sound Subsection's Water Drop award.

Personal

Away from work I enjoy spending time with my husband Dwayne and our family of 5 children, 2 dogs, 1 cat and several chickens. My husband and I brew beer and make wine and it has provided us so much fun over the years. When we actually find free time away from the farm we enjoy the outdoors and traveling.

Vision for the Section

Throughout all my work and interactions in this organization I am consistently amazed at the level of dedication and heart that our members have. The PNWS has allowed me to grow both personally and professionally. The PNWS's

commitment to its membership, training and sharing knowledge has been the key to its success.

I believe that we should continue to build on this success by getting our membership more involved. We have so many members with untapped talents and the willingness to contribute. We must continue to develop tools to help our members promote involvement in our committees and subsections.

As we move forward it is vital to share our years of experience and knowledge with the future generations of water professionals, whether that be through training, continued recruitment of new members or our young professionals. It is imperative that we not lose any of the experience and wisdom that our members have gained. It is my belief that we should continue to build on the solid foundation that has been created for us. Through the use of fresh ideas and new emerging technologies we can continue to be leaders and trailblazers in our industry.





WASHINGTON TRUSTEE

Pierre Kwan

Senior Project Manager, HDR

AWWA Commitment

My passion is working in the drinking water industry to find solutions to challenging issues. I have been an active member of both the local and national chapters of AWWA committees since 2000. Specific activities I have participated include the following:

- Chair of the local Water Treatment Committee for the past two years after serving two years each as Secretary and Vice-Chair.
- Member of the 2015 Bellevue Conference local arrangements committee.
- Past Chair of the national Plant Operations and Energy Management Research Committee.
- Member of the national Inorganics Contaminant Research Committee.
- Contributor to the AWWA Manual of Practice, M64: Aeration and Gas Stripping.
- Contributor to the AWWA Manual of Practice, M58: Internal Corrosion Control in Distribution Systems.
- Peer technical reviewer for the Journal AWWA.

In addition, I volunteer annually to provide technical trainings and presentations at the Western Washington Short School, the classroom and hands-on training forums hosted by the Water Treatment Committee, and for various other subsection events. I am also a frequent contributor to Water for People.

Education and Experiences

I started out in art school (the Columbus College of Art and Design), realized that I was not the next Picasso, and switched to the

Ohio State University to graduate with my Bachelor's of Science in Civil Engineering. I worked for a while at the City of Moraine, Ohio Engineer's Office and Ohio Dept. of Transportation. Afterwards, I moved to Seattle to obtain my Master's of Science in Civil Engineering from the University of Washington. Before joining HDR 14 years ago, I spent a bit of time on the wastewater side for King County Department of Natural Resources. Now at HDR, I have had the pleasure to work with many utilities throughout our Section on treatment and distribution system issues.

Other Activities

My wife, Jessica, and I spend much of our time chasing after our 2-year-old son, Nicholas. We love to go camping hiking, and traveling to new places. Whatever free time we have left is spent fixing up our 100-year old house. I still pick up the old brush every now and then to do some painting but I still have yet to sell anything.

Ideas for the Section

Our section is one of the most active and energetic in the whole AWWA, but there is always room for improvement. In all my experiences around the Section, I believe that we can become better by implementing the following:

Sharing the Benefits of the

AWWA with Others – There are many people joining our field that will benefit greatly from the professional knowledge and career mentorship that the AWWA provides. In addition, our Section has done well in getting large to mid-sized utilities to recognize the value that we provide, but we still

struggle to get smaller water systems to make the same recognition, the ones that have the least internal support to begin with. I would help develop recruiting strategies that each subsection and committee can use to reach those who should be in AWWA but haven't still joined.

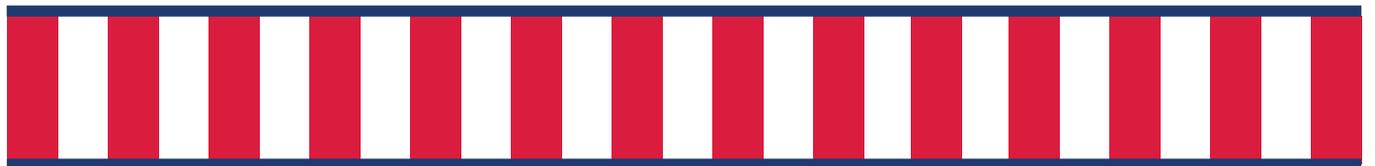
Sharing our Knowledge with

Each Other – I have always been a strong advocate of members helping and teaching each other to the greater benefit of the entire water industry. We currently have frequent in-person training events throughout all three states on a wide variety of critical topics. We now need to advance our trainings by leveraging technology to reach both a wider audience as well as to those members who have difficulty sending people to off-site events. I would ask the Section prepare web-based training seminars and prepare a digital library encompassing a variety of trainings so we can expand our outreach.

Staying Ahead of the Curve –

We are continuously facing new challenges with aging infrastructure, older workforces, increasing costs, new regulations, greater demands, and limited water supplies. Instead of simply reacting to these challenges, I will help the Section identify the most critical trends and issues and then prioritize training opportunities and efforts so that all of us can proactively get ahead of these issues.

I appreciate the opportunity to run as a Trustee candidate. I believe that my energy, devotion, and vision will be a big benefit in ensuring that our Section continues to serve the needs of our members.





TRUSTEE AT LARGE

Kevin Boggs
CH2M

Why join AWWA? I think back to nearly 10 years ago when I joined, and it was about a mentor. A mentor of mine encouraged me to engage in our southwest Idaho subsection. I did not really know what the AWWA PNWS was about, having just moved to Idaho to be close to family. I was about 5 years into my career at that time, and I did not have any previous experience with AWWA. I reached out to the president of the subsection and asked what I could do to help. After talking to him and the other subsection officers and board members, it was clear we could do more to engage young professionals. I offered up my time to coordinate the creation of

a YP group in southwest Idaho. With the full support of friends and colleagues at the subsection, we did just that. That same year, with the help of other subsection members, I coordinated our first southwest Idaho YP golf scramble. We have had an annual scramble since then, with the subsection hosting our 7th scramble just two days ago. This event generates about \$1,500 per year that we split between Water for People and the Education and Training fund. I have had the privilege to serve on the southwest Idaho subsection board for several years. I am currently the treasurer and I plan to continue to serve the subsection in that role.

I currently serve our Section as the vice chair of the Program Committee. In this role, I am reviewing section committee program plans this month to develop the technical program for our 2016 Boise Conference. This experience has helped me gain a better appreciation for our section as a whole, having coordinated with each section committee since shadowing our 2015 program vice chair. I have learned a great deal through this experience, not the least of which is that I want to remain engaged in AWWA. I want to help and I am committed to doing so.



TRUSTEE AT LARGE

Stephanie Raddatz
Outreach / Education Coordinator, United Water Idaho

AWWA Involvement

I have been a member of the PNWS AWWA since 2005. My involvement includes:

- Water For People Committee member
- Secretary 2014-2015
- Technical Liaison- Current
- Conservation Committee member
- Chair 2011-2012
- 2011 PNWS Conference LAC chair
- PNWS Annual Conference Ad Hoc Committee (2010)
- Southwest Idaho Subsection

Education/Awards:

- B.A. Communication / English: Boise State University
- Master in Public Administration: Boise State University
- PNWS AWWA Pioneer Award (2012)

My vision for the section:

- I would like to see the Section continue empowering subsections with the technical tools and financial means to grow their base and provide strong, local training opportunities. At the subsection level, we have the ability to provide the most optimal and affordable training for our members. As a member of an active subsection with remote locations, I understand the importance of providing useful, section supported training close to home.
- We need to reinforce the value of water to the public. Water professionals work diligently in order to provide safe, clean, reliable water to their customers. As the group for water professionals in the northwest,

the PNWS AWWA should be the voice telling the public that tapping the source, providing treatment, and building infrastructure is an invaluable expenditure. Together, we can explain why our water must be a priority among monthly bills.

- I want to see the Section continue its goal of reaching an annual \$100,000 donation to Water for People. I also support the growth of the E & T fund and student scholarships. The level of support that the PNWS AWWA gives to Water for People and the Education and Training Fund is remarkable. From both the Section and Subsection levels, this group enthusiastically raises monies for these worthy projects and I support the continuance of this activity. 

Our concern for the environment



is more than just talk

As we continue to deliver valuable information through the pages of this magazine, in a printed format that is appealing, reader-friendly and not lost in the proliferation of electronic messages that are bombarding our senses, we are also well aware of the need to be respectful of our environment. That is why we are committed to publishing the magazine in the most environmentally-friendly process possible. Here is what we mean:

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- We use vegetable oil-based inks to print the magazine. This means that we are not using resource-depleting petroleum-based ink products and that the subsequent recycling of the paper in this magazine is much more environment friendly.
- During the printing process, we use a solvent recycling system that separates the water from the recovered solvents and leaves only about 5% residue. This results in reduced solvent usage, handling and hazardous hauling.
- We ensure that an efficient recycling program is used for all printing plates and all waste paper.
- Within the pages of each issue, we actively encourage our readers to REUSE and RECYCLE.
- In order to reduce our carbon footprint on the planet, we utilize a carbon offset program in conjunction with any air travel we undertake related to our publishing responsibilities for the magazine.

*So enjoy this magazine...and **KEEP THINKING GREEN.***



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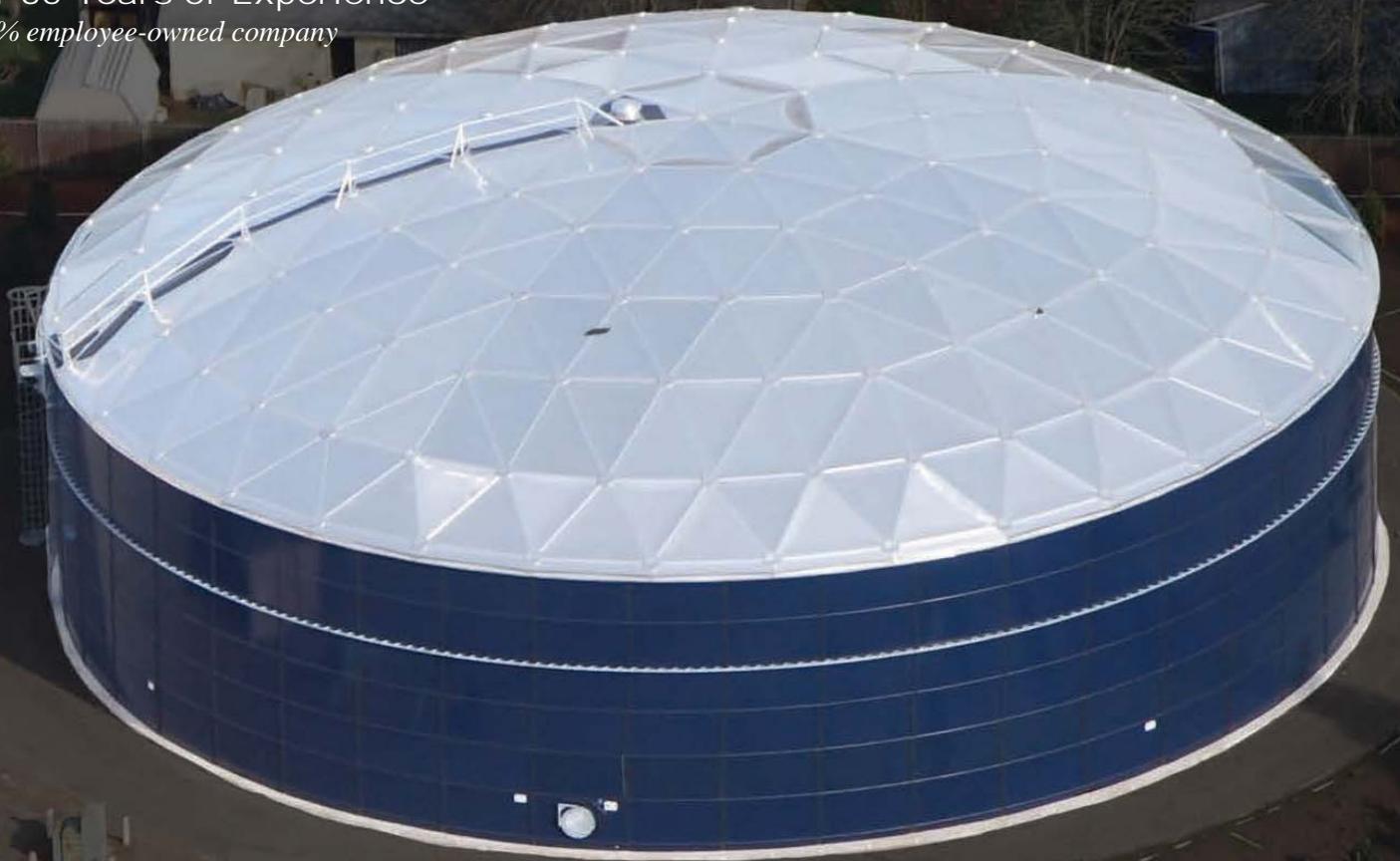
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