

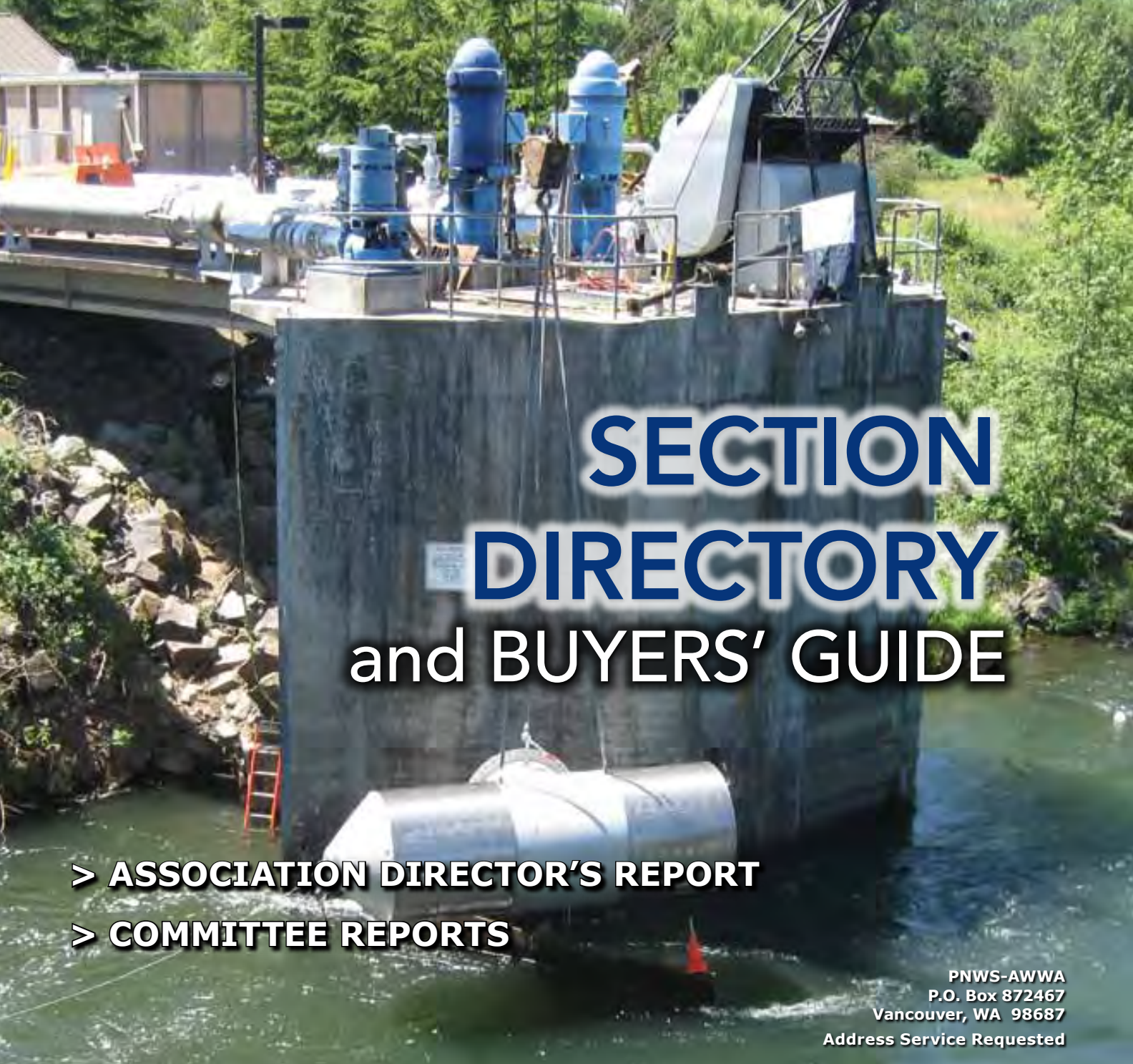
WATER



WINTER 2011/12

THE OFFICIAL MAGAZINE OF THE
PACIFIC NORTHWEST SECTION - AWWA

matters



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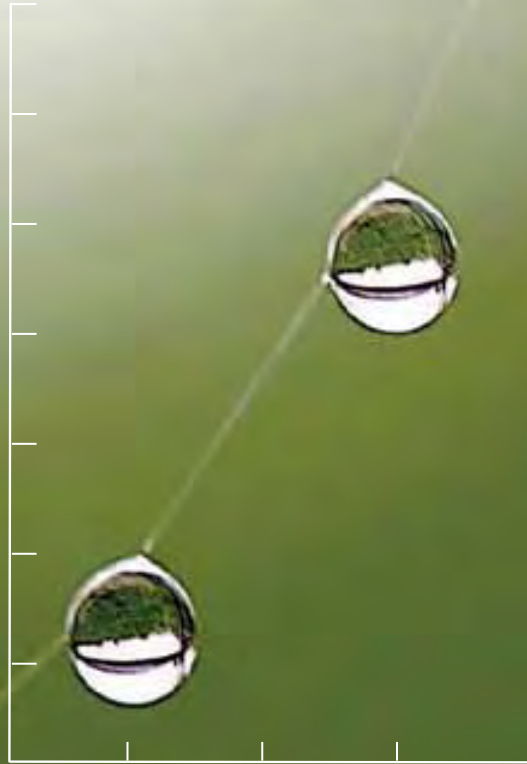
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WATER



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THE OFFICIAL MAGAZINE OF THE
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FEATURES



Section Directory & Buyers' Guide

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COVER: ROGUE INTAKE, EXCELLENCE IN ENGINEERING, SMALL PROJECT



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MESSAGE FROM THE CHAIR



Looking to the future

I love history – including the history of the Water business. It may seem a bit inconsistent to start an article about looking forward by looking back. However, I am a believer in philosopher George Santayana’s famous quote “Those who cannot remember the past are condemned to repeat it.” We have a wonderful and amazing history in water and AWWA to draw on to help guide us forward. The water systems in the United States were conceived and built in the late 1800’s and early 1900’s by people of vision who knew that they might have to do great engineering and construction feats to obtain the best source of water. New York City’s Delaware-Catskill system, Medford Water’s Big Butte Springs and Portland’s Bull Run supply are systems built by our predecessors that use gravity to supply the needs of their current customers. AWWA and

PNWS have similar amazing histories. AWWA was formed in 1881 by 22 people meeting in St. Louis to address water issues and has now grown to 50,000 members and is the authoritative source on safe water. 2012 will be the 85th year since the inception of the Pacific Northwest Section.

All of this history is a springboard for a Board initiative to develop a new Strategic Plan and approach to strategic planning. PNWS has done strategic planning as an annual event in conjunction with the Fall Board Meeting. The recent meetings have been more tactical and detailed than strategic. The Board decided one of our key functions is to set the strategic direction and work with the Executive Director, Committees, Subsections and members to implement the policy.

The Pacific Northwest Section Board is creating a Strategic Plan which will be used as a guide for our organization

over the next three to five years. Over the next few months, we anticipate crafting an initial plan, which we will then be shared with the membership for feedback. Board Members have reached out to Committee and Subsection Leadership for input and direction to create a plan we can all embrace and implement. Any changes or suggestions will be considered and approved by the Board at the Spring Conference in Yakima. AWWA recently updated its strategic plan (<http://www.awwa.org/files/about/OandC/officialdocs/AWWAStrategicPlan2010.pdf>) and will be used as a basis for the PNWS plan.

In October, I had the opportunity to attend the California-Nevada Section Fall Conference. I was able to attend many of their Board functions and see how they conduct their business. They recently completed an update to their strategic plan and have offered to help PNWS. We discussed opportunities to

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MESSAGE FROM THE CHAIR



work together and the value of more regional coordination between sections. The information should help with our strategic planning.

The California-Nevada Young Professional (YP) Committee asked me to do a presentation on the value and impact of AWWA membership and involvement on my career. The presentation became more of a discussion with the YP's and not so young professionals on the technical and networking opportunities provided by AWWA at the Section and Association level. I enjoyed the interaction and energy of their YP group; however, PNWS has a more engaged YP group.

The Young Professional Student Challenge and Chair Challenge of increasing the number of student members has been a success. PNWS had added 20 new student members in September and October with more

expected in the final two months of the year. The Challenge allowed us to establish or maintain presences at many of the institutions of higher learning in our Section. Schools where we now have more of a presence include Washington, Washington State, Gonzaga, Portland State, Oregon State and Clackamas Community College. Many thanks to the Membership, Research and YP Committees for their efforts to engage the next generation of water professional. Also, thank you to the many members who sponsored a student by paying their \$28 annual dues.

We are entering the home stretch on preparations for the 2012 PNWS Conference in Yakima. The Local Arrangement Committee under the leadership of Dave Brown and Zella West are working on the final details for another successful conference and event. Our post conference surveys have shown

that networking and the technical presentations are the two primary reasons we attend the conference. Yakima will provide that opportunity and I hope you will join us in May.

I want to close with a history quiz. Similar to Mark and Brian, Kyle will provide a prize from the PNWS 'junk drawer' to the first three members to correctly email him a response to the history question. Fire hydrants are sometimes called fire plugs. What is the historical basis for the name fire plug?

We never know the value of water till the well is dry. Thank you for all you do to ensure we have safe and sufficient water. ■

Bob Ward, Chair
Pacific Northwest Section – AWWA

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MESSAGE FROM THE EXECUTIVE DIRECTOR



New year – new educational opportunities

A couple of months ago, as all of us were closing out 2011, I began to receive the expected phone calls and emails, that have become tradition as each year winds to a close: frantic Section members seeking educational opportunities to fulfill their CEU obligations. They explain to me that busy schedules over the past several years have limited the amount of opportunities for them to attend training and as their CEU cycle comes to an end, they are desperate to attend any classes they can. Some are even willing to drive across their state to obtain a few credit hours! These last minute appeals, while nerve wracking for the member, do make me smile as I realize that the Pacific Northwest Section has become synonymous with quality educational offerings for water professionals within our three states. Whether it is at one

of our many subsection short schools, targeted committee trainings or our annual conferences, our members know that they will always receive exceptional, pertinent training at an outstanding value.

To that end, and to keep our members from refilling their Xanax prescriptions as frequently, I wanted to remind everyone of some key training dates for 2012:

- March
 - Cascade to Coast Subsection Short School
 - Eastern Oregon Subsection Short School
 - AWWA Sustainable Water Management Conference in Portland
 - AWWA Financial Management: Cost of Service Rate-Making in Portland
- May
 - May 2-4 – 2012 PNWS Section Conference in Yakima, WA

- June
 - Northwest Washington Subsection Short School
 - Northwest Oregon Subsection Short School

Information about all of the above training opportunities, as well as many more, can be found on our Section website and in our monthly e-newsletter. Give me a call if you are having difficulty finding information about any of the Section training offerings.

Recent recommendations to the Section Board from the Ad-Hoc Training and Educational Committee co-chaired by Lisa Snowden and Brenda Lennox have paved the way for online registration for all Section training. Over the next several months, you will be hearing more about a new portion of our website devoted to Section wide training opportunities – a one-stop shop for training. It will provide our members with one location that highlights all training, allows for online registration and accepts credit cards. Similar to what has been used the last few years for the Section conference, this online registration promises to be quick, easy and does away with the need for a check request from your utility. The Northwest Washington Subsection has been testing this new system with their winter training opportunities to glowing results!

As I close this quarter's column, I would be remiss if I did not prod all of you to attend the Section Conference in Yakima, May 2-4. We have designed a great technical program, have refined the vendor tradeshow to better meet everyone's needs and as usual, have some wonderful networking opportunities planned. Registration is now open and I encourage you to register early to avoid the price increase April 1. ■



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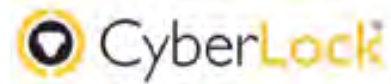
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Dare to make a difference

At the recent Regional Meeting of Section Officers, we had the opportunity to view a short video '212: The Extra Degree.' The point of the video is that there is often little difference between the status quo and outstanding achievement. At 211°F water is hot, while at 212°F water becomes steam - which was a driving force for the industrial revolution - all from one degree. Other examples are equally illuminating:

- The average margin of victory in major golf tournaments over the last 25 years has been less than 3 strokes (about 1% of par for an entire tournament).
- In the 2004 Olympic men's 800-meter race, the difference between first place (gold medal) and 4th place (no medal) was 0.2 seconds (about 0.2% of the time for the entire race).

- In the Indy 500, the average margin of victory over the past 10 years has been about 1.5 seconds (about 0.01% of the time for the entire race). With dramatic music thundering in the background, the screen flashes: "It's your life ... it's time to turn up the beat."

For AWWA and the Pacific Northwest Section, what can we do to help make 'The Extra Degree' difference? It is easy to get stymied by thinking about the major outcomes (like making steam) when the real opportunities are in seemingly small, incremental efforts (like taking things up one degree). Here are a few examples:

- Donate two dollars to the Section's Education and Training Fund. If every single member of the Pacific Northwest Section donated just two dollars to our E&T Fund, we would have enough money to fund an additional

student scholarship. Just \$2 ... you can't buy a cup of coffee for that! And maybe someday, one of those scholarship recipients will go on to become the PNWS Chair. (You might ask Chair-Elect Kari Duncan about that.)

- Sponsor a Student Member. Chair Bob Ward has presented us with the Chair's Challenge to have the section sponsor 50 new student members. It is only \$28 for crying-out-loud! I have sponsored a student - have you? And maybe someday, one of those student members will go on identify a breakthrough water treatment technology with the potential to change how safe water is provided in undeveloped countries. (Did you see the Fresh Ideas Poster Competition at Boise? The students - the future leaders of our industry - presented innovative research on this very topic.)
- Attend a committee meeting. It could cost you nothing but your time. And who knows, you might get drawn into a conversation that coalesces around the idea of sponsoring a training workshop on a topic that nobody had previously considered and the program could go on to make a significant difference in training for utility staffs (Just ask Past-Chair Brenda Lennox about her contributions to the AWWA Customer Service training program).

Please consider how you can 'turn up the beat' and help make 'the extra degree' of difference for AWWA and PNWS. Give me a call or e-mail me if you have a suggestion or if there is anything I can do to help you make the most of your AWWA membership. I look forward to hearing from you. ■

Mark Knudson
PNWS-AWWA Director

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COMMITTEE REPORTS

ENGINEERING COMMITTEE



Elwha Water Plants

The Engineering Committee will be accepting applications for the 'Excellence in Engineering' award. The goal of this award is to recognize our peers who have recently completed a drinking water supply, treatment, storage, or other related engineering design that exemplifies excellence, innovation or other similar qualities. The award will recognize the design team (our peers) as well as the project owner within the following project size categories:

- Small Projects: Less than \$1M in Construction Costs
- Medium Sized Projects: Greater than \$1M and Less than \$10M Construction Costs
- Large Projects: Greater than \$10M in Construction

The Engineering Committee will award the 'Excellence in Engineering' award in May 2012 at the conference in Yakima, WA. If you have any questions regarding the award



Rogue Intake

please email Michael Norton at the following: michael.norton@stantec.com

Applications are due **February 10, 2012**. Please go to: <http://www.pnws-awwa.org/Page.asp?NavID=193>. for the application form. ■



Enaville

PUBLIC INFORMATION COMMITTEE

All New Excellence in Communications Awards Coming Soon! Visit the Public Information Committee's website in January 2012 to download the application. sites.google.com/a/pnws/awwa.org/public-information/home.

The Young Professionals and the Public Information Committee are joining forces to bring you a pre-conference workshop you will not want to miss:

PowerPoint and Beyond: Integrating New Tools to Develop a Presentation with 'Pizazz'
This workshop will be of interest to anyone who creates and presents information to customers, public officials, and peers (engineers, managers, outreach specialist, etc.).

Want to join the Public Information Committee and hang out with other fun and interesting communications folk? Send us an email (Libby Barg libbybarg@barneyandworth.com or Tacy Steele tacys@ci.hillsboro.or.us) and we will add you to our members list. ■

UTILITY MANAGEMENT COMMITTEE

The Utility Management Committee is a newly-formed committee as of May 2011. We are in the process of developing a mission statement, so stay tuned! We are sponsoring a Utility Management session at the PNWS Conference featuring three topics:

- How to Sell Rates to Avoid Long-term Revenue Shortfall
- How to Make Management Positions More Attractive to a Younger Generation
- Asset Management – Lessons Learned

Each topic will feature a short presentation followed by an open discussion including both current and future utility managers. We hope to see you there!

If you are interested in becoming a member, please contact Nicki Pozos at nicki.pozos@bdrinc.com or 503-423-3817. ■

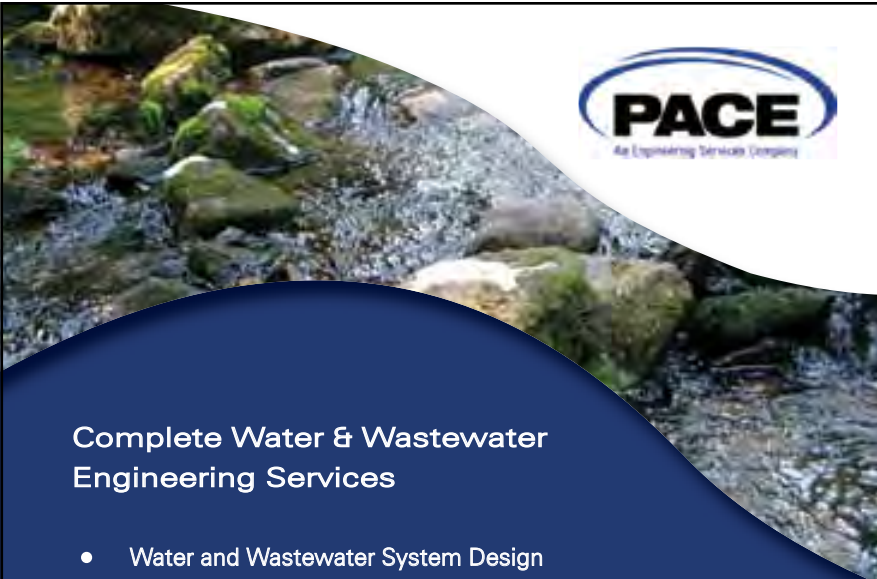


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COMMITTEE REPORTS

SCHOLARSHIP COMMITTEE

The Pacific Northwest Section has helped over 170 students further their college education over the past 20 years. This effort is supported by the Education & Training Fund, a scholarship provided to the top applicant each year from Ameron International, and additional contributions from Manufacturers and Suppliers conference registrations, Kelman & Associates (our *Water Matters* publishing partner), the NW Washington Subsection, and the Section Board.

Each January, letters go out to educational institutions in the Pacific Northwest. Applications for the 2012-13 academic year scholarships are available on the Section website now and are due February 24, 2012.

The Section now has six perpetual scholarships honoring members of the Pacific North-



west Section. These are:

Ray Pettie/Bob Stiles, Archie Rice, Alan Jones, Cynthia Driscoll, Doane family, and the Legacy Scholarship (which collectively honors those individuals yet to meet endowed status).

So what can *you* do to help our industry *now*? First, find an eligible student and make sure they are aware of this opportunity for help with their education. Second, consider making a tax-free donation to the Education & Training Endowment Fund. Finally, watch for young professionals ready to enter our profession. Give them a chance. As an industry, we need them as much as they need a start in their career. ■



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COMMITTEE REPORTS

WATER FOR PEOPLE COMMITTEE

Welcome to 2012, PNWS-AWWA! With the new year, I would like to remind you what the PNWS Water For People (WFP) committee is all about. The committee is active in supporting integrated, sustainable water, sanitation, and hygiene projects in designated WFP focus countries. WFP is a nonprofit organization that now works in 11 countries: Uganda, Rwanda, and Malawi in Africa; the state of West Bengal in India; Honduras, Guatemala, Nicaragua and the Dominican Republic in Central America; and Bolivia, Peru and Ecuador in South America. Every day, nearly 6,000 people around the world die from water-related illnesses, the majority of whom are children. WFP's vision is a world where all people have access to safe drinking water and sanitation, and they are realizing their goals with our support! WFP announced in November that everyone in Chinda, Honduras has safe water -- every family, school and clinic! The great thing about WFP is that they work with community members, local government and private businesses to ensure safe, sustainable



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Thank you so much to all of the volunteers, corporate sponsors and donors that have made 2011 a great success! As was mentioned in the Fall Water Matters article, the Pacific Northwest Section accomplished its goal and reached \$100,000 in donations, achieving the Global Sponsor level for the fifth year running. Since the last article, an additional \$6,870 has been raised by the Northwest Oregon Subsection! They hosted their first Wine for Water Event on Friday, September 16, 2011, at the Plum Hill Vineyards in Forest Grove. Attendees enjoyed music, a silent auction and had the opportunity to hear WFP's Caitlin Harris share her personal stories of visiting Malawi.

Ongoing and Upcoming Events

- The 6th Annual Water for People Gala, hosted by the Northwest Oregon Subsection WFP Committee, is scheduled for Saturday, February 4, 2012 at the Scottish Rite Center in Portland. They are excited to present their keynote speaker, environmental artist Betsy Damon, Director of Keepers of the Waters, whose mission is to inspire and promote projects that restore, preserve and remediate water sources with art, science, and community involvement. Look forward to dinner

and dancing, as well as the Zimbabwe Arts Project art sale! Contact Carla Ralston for tickets: carla.ralston@portlandoregon.gov

- The Cascade to Coast Subsection is planning their 3rd annual Texas Hold 'em poker tournament, scheduled for Monday, March 12, 2012, in conjunction with the AWWA Short School conference held in Eugene. They are also looking forward to their 4th annual summer benefit event at Sweet Cheeks Winery in late July 2012. The Sweet Cheeks Winery benefit is a lot of fun with live music, a silent auction, and wine tasting!
- Planning for the WFP Seattle Chapter's 17th Annual Water For Life Reception is well underway. The event will be held at the Seattle Center Pavilion Room on Saturday, March 24, 2012. We look forward to hearing from keynote speaker and committee member Eric Schey, who recently traveled to Honduras on a WFP Country Connections tour.
- We are accepting auction items for the Section Conference in Yakima on May 2-4, 2012. Hot selling auction items include event tickets, hand-made items, alcohol, blown glass and photography. Contact Kristin Young at 425-951-5350 or kyoung@rb2.com if you have questions.

PNWS Water For People H2wh0a! Spotlight

The PNWS Water For People committee has many wonderful volunteers and contributors, and we want to highlight the efforts of our peers who go the extra mile to support the fundraising efforts of the committee. Do you know someone who has come up with a creative new fundraising idea? Perhaps a new committee member who has really thrown themselves into the fundraising efforts? Let us know by nominating them! Give us their name and position, and what makes them so spectacular! We will send you and your nominee a special gift! ■

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COMMITTEE REPORTS

YOUNG PROFESSIONALS COMMITTEE

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Are you a fan of the Young Professionals committee and all they do? If so, follow us on our Facebook Fan page. Search for the 'PNWS of AWWA Young Professionals' and join your PNWS friends.

Scavenger Hunt

Planning is underway for the 2012 YP **Scavenger Hunt**. If your company has interest in **sponsoring this event**, contact Jennifer Garbely (Jennifer.Garbely@aecom.com). We are preparing for young professionals to meet with sponsor representatives, AWWA officials, and explore the city of Yakima, WA. It is always a great time, and the networking benefits are huge!

Pioneer Award

We are now accepting nominations for the 2012 Pioneer Award! Is there an outstanding young professional in your company? Nominate them! This award is given yearly to the YP in the PNWS that best exemplifies technical expertise in the drinking water industry, excellent leadership skills, and community involvement. Submit nomination letters (two-page maximum) to Marshall at MNThompson@SpokaneCity.org.

Fresh Ideas

We are now accepting abstracts for the 2012 Fresh Ideas competition! The winner receives an expenses-paid trip to Dallas, TX to present at ACE. All students - graduate and undergraduate - are encouraged to present a research poster of their drinking water research for the PNWS Conference in Yakima, WA.

Check out the YP committee website for more information or contact Jodi (jodi.burns@ch2m.com).

Student Membership Campaign

In the last Water Matters issue, Bob Ward our PNWS Chair, challenged us to recruit 75 student members between September 1st and December 31st. This challenge spread throughout the Association where all Sections were challenged to increase their student memberships by 25%. Here in the PNWS, we took on this challenge with full force by pairing up current members willing to donate \$28 to interested students to pay for their annual membership fee. For more information check out our website or contact Kristel Fesler at kristelf@ci.hillsboro.or.us.

At time of publication our Sponsor a Student campaign will have come to a close. At press time, 34 students will have received AWWA memberships from a gracious group of current AWWA members. Also the NW Oregon Subsection sponsored 41 students, bringing us to our goal of 75 student members!

AWWA Campus Activities

In addition to supporting student's memberships, we have been supporting student activities and outreach events. Presentations highlighting the opportunities and benefits of involvement in AWWA have been given to student chapter groups at Portland State University and Clackamas Community College. Additional presentations have been given to classrooms at Gonzaga, Washington State, and Portland State universities. A two-part series on the history of Portland water supply has been given at Portland State University

with overwhelming interest and very high attendance. Job interviewing tips and practice sessions has been given to Clackamas Community College students. Oregon State University students toured the Wilsonville water treatment plant last spring. The eager students asked numerous questions and had very positive interactions with the tour guides. All these functions positively exposed the drinking water industry to students and illustrated the many great people involved in AWWA.

Thank you to the many people that have gave a presentation, supported eager students, or donated \$28 to sponsor a student's AWWA membership!

Join Us

New to the drinking water industry? Recent graduate? Still coping with that drinking from a fire hose feeling? Welcome to the Young Professionals Committee! We are here to orient all new drinking water employees to the industry. Interested? We will put you in touch with other YPs in your local area. Contact Corianne at chart@brwncald.com.

PNWS YP Officers

Corianne Hart
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Portland, OR
chart@brwncald.com

Jodi Burns
Vice Chair, CH2M Hill
Boise, ID
jodi.burns@ch2m.com

Jennifer Garbely
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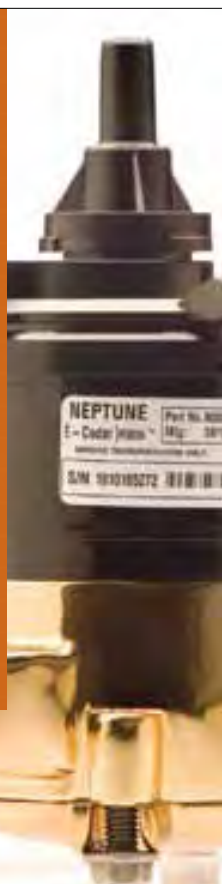
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SUBSECTION REPORTS

NORTHWEST OREGON SUBSECTION



The Northwest Oregon Subsection of the AWWA usually holds its lunch meetings on the third Thursday of each month. The meetings take place at a variety of utilities in the greater Portland area and are a wonderful place to connect with fun people who share similar interests and careers. A great lunch is always served, and the technical programs range from informational presentations and trainings to tours and competitions. If you are interested in joining us for our next meeting, please check out the website pnws-awwa.org in the Subsections tab to find the next date, time, and location. As an added bonus for new members – your first monthly Subsection lunch is on us! We hope to see you there!

Monthly Meetings

September:

The September meeting was held in the City of Gresham this year. A delicious lunch was served, and Subsection members learned about vulnerability assessment updates from David Koukel of CH2MHill. His presentation titled *'New Technologies in Water Security'* was very enlightening and prompted a number of questions and comments from attendees afterward. Many thanks go to our speaker and to Mike Whiteley from the City of Gresham for organizing the event.

October:

The City of Beaverton hosted the October 2011 meeting. NW Oregon Subsection members were presented the program *'JWC ASR 2012: Status Update and What Lies Ahead.'* The three speakers, Dave Winship (City of Beaverton), Mark Knudson (Tualatin Valley Water District), and Niki Iverson (City of Hillsboro), did a great job explaining the project and answering questions.

Three separate votes were also held

during the meeting in Beaverton. The membership decided to give two \$1500 dollar donations to the Section Education and Training Fund and to Water For People. A third vote was held to decide on the next incoming Subsection officer. Chandra Hingston (Joint Water Commission) was voted in for the position.

Brion Barnett and Paula Moore, both with the City of Beaverton, deserve a round of applause for organizing a fantastic October event.

November:

In November the Subsection gathered in the City of Hillsboro for the annual regulatory update meeting. Dave Leland from the Oregon Health Authority joined us to present his *'Safe Drinking Water Program Update.'* He covered a variety of aspects like current events with LT2 and chromium-6, Oregon Health Authority budget information, the EPA's regulatory review, and essential functions of the Drinking Water Program. The presentation, as usual, was delivered with humor and was very informative. The Subsection gives thanks to Mr. Leland for speaking with us and thanks Peter Martins, Tonya Bilderbeck and the rest of the crew at the City of Hillsboro for arranging the meeting.

Membership Committee

The Membership Committee has a new chair! Chandra Hingston (Joint Water Commission) has stepped into the position and hopes to continue the effort to expand our Subsection membership and keep them involved. Many thanks to Lacey Goeres who was the previous chair and kept our committee members informed and on task. The Membership Committee is working hard to come up with new ideas for a 2012 Membership Drive. If you have any thoughts or ideas, we would love to hear from you! Please contact Chandra Hingston at chandrab@ci.hillsboro.or.us to share.

Activities Committee

January is the beginning of activities season! It's a great time to get involved with the Subsection because opportuni-

ties to compete and to cheer for your fellow AWWA members abound. The season kicks off with the Meter Madness competition where contestants will be assembling a working water meter as fast as they can. The February meeting hosts both the Top Ops and Field Innovations competitions, and in March water providers will battle for the title of Best Tasting Water. If you are interested in becoming involved in any of these fun contests, please contact the chair of the Activities Committee Gerald Arredondo (City of Salem) at garredondo@cityofsalem.net.

Young Professionals Committee

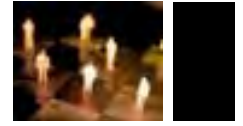
A new chair has taken over the Subsection YP Committee! Anna Zaklikowski (HDR Engineering) has been an AWWA member for about 7 years and steps into her new role with leadership experience. In the past she chaired the YP group for the Lower Columbia Section of the Pacific Northwest Clean Water Association (PNCWA). She is also a member of the PNWS Water Treatment Committee. Thank you Anna for taking on the YP chairmanship, and thanks as well to Kristel Fesler (City of Hillsboro) for your many efforts as the previous chair! If you would like to join the YP Committee or find out more information about upcoming events, contact Anna at Anna.Zaklikowski@hdrinc.com.

Water For People

Wine for Water:

On September 16, 2011 the first ever 'Wine for Water' event was held at Plum Hill Winery in Forest Grove, OR. Winery owners RJ and Juanita Lint opened up their beautiful tasting room and patio to about 100 NW Oregon Subsection members. The evening was filled with fun music, great food, and of course - wonderful wine. Buckwheat entertained the crowd with the toe-tapping rhythms of their contemporary folk duo. Caitlin Harris, from Water For People, shared her experiences from a 2009 trip she took to Malawi in Africa. A massage therapist was on hand to offer chair

SUBSECTION REPORTS



massage to those who needed some extra help relaxing, and a silent auction, with fantastic donations, was also held during the evening. In total the event raised about \$7500 for Water For People! We are hoping that 'Wine for Water' becomes an annual affair for NW Oregon. The Subsection would like to thank Chuck Kingston (Joint Water Commission) for organizing the event and gives many thanks to the evening's generous sponsors: AECOM, Carollo, CH2MHill, Black and Veatch, Brown and Caldwell, GSI, HDR, RH2, Jeanne LeJeune, Wm. H Reilly, and Kevin Thelin.

Water For People Gala:

The 6th Annual WFP Gala is being held this year on February 4. The festivities will begin at 6pm with hors d'oeuvres, drinks, and music. A wonderful dinner will be served at 7pm followed by the keynote speaker. This year we are excited to present environmental artist Betsy Damon. She is the director of Keepers of the Waters, a non-profit group whose mission is to inspire and promote projects that restore, preserve and remediate water sources using a combination of art, science, and community involvement. Her belief is that global water quality is dependent on each community having a sustainable water source that they know about and are responsible for. The evening will also include dancing, and artwork from the Zimbabwe Arts Project will be on display and for sale. The Gala will once again be held at the Scottish Rite Center in downtown Portland. Tickets for this lively and entertaining event can be purchased from the Subsection WFP Committee chair Carla Ralston at carla.ralston@portlandoregon.gov. We look forward to greeting old friends and meeting new ones!

Thanks for the Support

The Northwest Oregon Subsection sincerely thanks all of our members, volunteers and sponsors for making

our monthly gatherings and annual events happen. Without your generous support, none of this would be possible. Thank you to our most recent hosts:

City of Gresham
September 2011 Meeting

City of Beaverton
October 2011 Meeting

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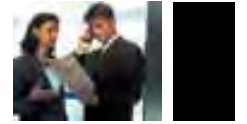
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Jerod Hoffman
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Chad Sweet
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Tracy Triplett
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Kelsey Vandebergh
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Clay Walker
*City of Gresham
Gresham, OR*

Larry Wright
*City of Hillsboro Joint
Water Commission
Hillsboro, OR*

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*City of Port Angeles
Port Angeles, WA*

John Dix
*Lake Stevens Sewer District
Lake Stevens, WA*

Ernie Klimek
*City of Port Angeles
Port Angeles, WA*

Stephen Koho
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Karen Latimer
*City of Marysville
Marysville, WA*

Adam Lehman
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Clinton, WA*

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*Perteet, Inc.
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Robin Matthews
*Western Washington University
Bellingham, WA*

Larry Messinger
*City of Port Angeles
Port Angeles, WA*

Grant Moen
*City of Everett
Everett, WA*

Robert Powell
*Skagit County PUD #1
Mount Vernon, WA*

Gary Sale
*Washington State Parks
Eastsound, WA*

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*Nisqually Indian Tribe
Olympia, WA*

Janet Bjornemo
*Vici Metronics
Poulsbo, WA*

James Bush
*Brown and Caldwell
Olympia, WA*

Veith Long
Olympia, WA

Kenneth Slemper
Steilacoom, WA

Vici Metronics
Poulsbo, WA

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Coos Bay, OR*

Brian Crowder
Coos Bay, OR

Micah Demanett
*Coos Bay-North Bend
Water Board
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Doyle Fish
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Coos Bay, OR*

Terry Haugen
*Grants Pass Public Works
Grants Pass, OR*

Natasche Legg
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David Leibbrandt, P.E.
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BUYERS' GUIDE

Our Buyers' Guide consists of two sections:

1. A **CATEGORICAL LISTING** of products and services, including a list of the companies that provide them.
2. An **ALPHABETICAL LISTING** of the companies appearing in the first section. This listing includes name, contact info, website and more.

CATEGORIES

ACCESSORIES

Owen Equipment Company

ADVANCED METERING INFRASTRUCTURE

Neptune Technology Group Inc.

AMR SYSTEMS AND METERS/ AMI SOLUTIONS

General Pacific
Master Meter, Inc.
Neptune Technology Group Inc.
Sensus

ANALYTICAL SERVICES

Edge Analytical Laboratories

BIOSOLIDS

Brown and Caldwell

COATINGS, LININGS, AND CORROSION CONTROL

Extech, Division of Acuren Inspection Inc.

CONTROL PANELS

SJE-Rhombus

CONTRACTORS

Shannon & Wilson, Inc.

DESIGN-BUILD CONTRACTOR

AECOM Technology Corporation
Ranney Collector Wells –
Layne Christensen
Shannon & Wilson, Inc.

DISINFECTION

Degremont Technologies
Trojan Technologies

ELECTRICAL INSTRUMENTATION/ CONTROLS/GENERATORS

Pollard Water

ENGINEERS/CONSULTANTS

AECOM Technology Corporation
BHC Consultants, LLC
Brown and Caldwell
Carollo Engineers
Extech, Division of Acuren Inspection Inc.
GHD
Golder Associates Inc.
Gray & Osborne, Inc.
HDR
Kennedy-Jenks Consultants
Murray, Smith & Associates, Inc.
MWH Global
PACE Engineers, Inc.
Parametrix
RH2 Engineering Inc.
Roth Hill
Shannon & Wilson, Inc.

FILTRATION

Degremont Technologies
Ranney Collector Wells –
Layne Christensen

FIRE HYDRANTS

General Pacific

FLOW SENSORS

Blue-White Industries

GIS SERVICES

AECOM Technology Corporation
PACE Engineers, Inc.
Roth Hill

INSERTION VALVES

Advanced Valve Technologies, Inc.

INSPECTORS/LOCATORS

BHC Consultants, LLC
Extech, Division of Acuren Inspection Inc.
Owen Equipment Company
Pollard Water

LABORATORIES/SUPPLIES

Edge Analytical Laboratories

LAND SURVEYING

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Parametrix
Roth Hill

LEAK DETECTION/ CORRELATOR SERVICES

American Leak Detection
General Pacific
Owen Equipment Company
Pollard Water
Sensus

LEVEL CONTROLS

Branom Instrument Company
SJE-Rhombus

METER DATA MANAGEMENT

Master Meter, Inc.

METERS/METER TESTING

Blue-White Industries
Branom Instrument Company
General Pacific
Master Meter, Inc.
Neptune Technology Group Inc.
Sensus
The Ford Meter Box Company, Inc.

NUTRIENT REMOVAL

Degremont Technologies

ODOR CONTROL

Owen Equipment Company

OIL WATER SEPARATORS

Oldcastle Precast

PIPE & APPURTENANCES

American Ductile Iron Pipe

PIPE RESTRAINT

The Ford Meter Box Company, Inc.

PIPELINES (STEEL/CONCRETE)

American Ductile Iron Pipe
HDR

PIPELINE COUPLINGS & CLAMPS

The Ford Meter Box Company, Inc.

PROCESS MECHANICAL

AECOM Technology Corporation
Kennedy-Jenks Consultants

PUMPS/PUMP STATIONS/ PUMP SYSTEMS

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Blue-White Industries
HDR
Kennedy-Jenks Consultants
Oldcastle Precast
Pollard Water
Ranney Collector Wells –
Layne Christensen
RH2 Engineering Inc.
Roth Hill

READING SYSTEM

General Pacific
Sensus
Master Meter, Inc.

RESIDUALS/WASTE MANAGEMENT

Degremont Technologies

ROV WATER TANK INSPECTION

Extch, Division of Acuren Inspection Inc.

SCADA – CONTROL SYSTEM DESIGN

RH2 Engineering Inc.
SJE-Rhombus

SEWER CLEANING EQUIPMENT & ACCESSORIES

Owen Equipment Company

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Mt. Baker Silo, Inc.
Oldcastle Precast
RH2 Engineering Inc.
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STORMWATER DETENTION/ RETENTION

Oldcastle Precast

TOOLS & EQUIPMENT

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Blue-White Industries

UV DISINFECTION

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Trojan Technologies

VALVES

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The Ford Meter Box Company, Inc.

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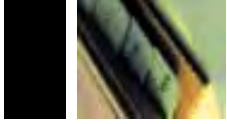
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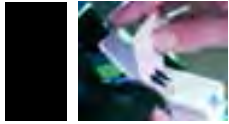
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