I had the privilege of representing our section at this year’s Fly-In where over one hundred forty of our counterparts traveled to Washington, D.C. to meet with their respective Congressional delegates to express a unified message of the importance of drinking water. This year’s effort was a bit unique in that it was timed with Water Week and was also a coordinated effort with activities held by other organizations such as the National Association of Clean Water Agencies, the Water Environment Federation, and others.

The main issues brought forth to our Congress folks were: full authorized funding for the Water Infrastructure Finance and Innovation Act (WIFIA); double the appropriation (combined) for the Drinking Water State Revolving Fund (DWSRF) and the Clean Water State Revolving Fund (CWSRF); and protection of the tax-exempt status of municipal bonds. There were a few others, but those three were most applicable to Hawaii.

I was fortunate with the timing in that it was the week after a ‘freak’ late winter storm hit the eastern area. But even then, although the weather was clear, it was COLD. We’re talking highs in the upper 40’s to lower 50’s and lows in the 30’s. Of course this Big Islander was already out of his comfort zone wearing a suit, but I also had to buy an overcoat!

I was fortunate to have scheduled appointments with all four of our Congressional delegation: Dale Hahn and Mike Obeiter of Senator Schatz’s office, Senator Mazie Hirono and Jen Burks of her office, Congresswoman Tulsi Gabbard and Dave Chun of her office, and Kana Smith of Congresswoman Hanabusa’s office. Also had a chance to talk story with Mike Formby, who is now Chief of Staff for Congresswoman Hanabusa. He said to tell Ernie ‘Hi!’

Although it was a fast trip with more time spent at the airport than in DC it seems (including an unscheduled overnight stay at the Hilton at Chicago’s O’Hare International Airport...) overall, it was a terrific experience. It would have been even better had my wife and son been able to join me, but alas, was not in the cards this time.
So at this point, it appears funding for WIFIA and the SRF’s are okay. The talk on tax policy may be concerning as the tax exempt status of municipal bonds may come up. Other issues on ‘the Hill’ at the time was the Affordable Care Act and the vetting of Supreme Court nominee Gorsuch. We all know what happened to the effort on the ACA. This should be interesting times at the Federal level and who knows how that will trickle down to us here in Hawaii. Stay tuned and stay engaged. §
Chair’s Message
By Michael Street
Hawaii Section Chair

We are coming to the end of the AWWA Hawaii Section fiscal year. A new slate of officers is anxiously awaiting to start on June 1st.

As we look back on the past year, we note that the Hawaii Section hosted the Regional Meeting of Section Officers for Region V over a two-day period at the Hilton Hawaiian Village Hotel. The Western Region is the largest geographical region within AWWA and includes sections from Canada and Mexico. We had a large group attend the meeting to hear the latest issues facing AWWA and the water industry. AWWA is going through the process of reshuffling the regions, and this will affect the Western Region.

The AWWA Hawaii Section also co-hosted the 2017 Pacific Water Conference with the Hawaii Water Environment Association. This is the fourth year of the collaboration and it has turned out to be a successful venture so far. The attendance was great with many interesting sessions and exhibitors. We look forward to continuing this successful relationship.

The Hawaii Section successfully completed the transition of the section website to its new location after the original website had been compromised. Please take the time to visit the site to get up to date information on section activities. Many thanks to Joy Gannon, Susan Mukai, and Susan Uyesugi for taking the lead on the transition.

The Hawaii Section recently hosted its strategic planning meeting, and your new Chair, Juanita Colon, is set to move ahead on her agenda for the next year. She is willing to hear from the membership about ideas and ways to improve the services provided to the membership. I would like to thank the Executive Board, Trustees, and Committee chairs for their help this past year in making it a success. Without your assistance, we wouldn’t have been able to move ahead.

Best wishes to Juanita and the new board for the next year. §
Director’s Message
By Ken Ota
Hawaii Section Director

HOW MUCH DO WE VALUE WATER

“No Water. No Beer.”
“No Water. No Coffee.”
“No Operator. No Water.”

- It takes 20 gallons of water to make a pint of beer
- 132 gallons of water to make a 2-liter bottle of Soda
- 32 gallons to make a glass of wine
- 19 gallons of water to grow just one apple
- Average person uses 176 gallons of water per day

Our water infrastructure is invisible to majority of our community. Very few people realize what it takes to treat and deliver safe, reliable potable water. Our Municipal water costs us less than $5.00 per 1000 gallons (under $.005 per gallon) - compared to the $8.00 for a gallon of bottled water. Our tap water is a bargain considering all the engineering, highly trained operators, and ongoing maintenance. Thank you AWWA members for your commitment in promoting public health, safety, and welfare.

It has been an honor to serve as your Director for the Hawaii Section for the past three years. My last board meeting will be in Philadelphia next month. Our retired Honolulu BWS employee and National Pipe Tapping Coach Daryl Hiromoto will be replacing me as Director at ACE 2017.

Thank you for this great opportunity and trust in representing the Hawaii Section. §

Hawaii Section Mission Statement
The Hawaii Section AWWA is dedicated to the promotion of public health and welfare in the provision of drinking water of unquestionable quality and sufficient quantity. The Hawaii Section AWWA must be proactive and effective in advancing the technology, science, management, and government policies relative to the stewardship of water.
On April 28th, the Hawaii Section held its annual strategic planning session at the Pagoda Hotel. Numerous trustees, committee chairs and executive board members were present. The purpose for this year’s strategic planning session was to set the course for the coming year. We have three overall goals for this coming year.

Goal #1 is to fill all vacant committee chair positions and recruit volunteers to help support each committee chair. If you would like to volunteer on any committee please contact the committee chairs or board members. If you know of someone that would be a great addition please let us know as well and we’ll contact them.

Goal #2 is to develop a plan to utilize Section funds, i.e., operator internship programs, DSO test prep, etc. as well as investment opportunities. Each committee is tasked with developing proposals/projects that will benefit our members. An Ad Hoc committee has been set up to oversee the development of these plans and will report to the Board of its findings.

Goal #3: Learn what the needs of our membership are. We would love to hear from you all. Send us your comments, suggestions, concerns, etc. on what we can do for you. What type of workshops or training, if any, would you like to see.

I look forward to serving you as your Section Chair for the coming year. Please feel free to contact me. I am always open to understanding how we can better serve you. §
Håfa Adai! It is with great pleasure to be part of the AWWA Hawaii Western Pacific Subsection, as the incoming Chair. I would also like to introduce the other new Subsection officers. Noel Enriquez (Trustee), George Watson (Vice Chair), and Pete Diaz (Treasurer). The newly elected officers were sworn in at a general meeting which was held on April 18th during our Third Annual Conference on Guam. Geigy Salayon will serve as Past Chair, Ken Rekdahl will continue as Trustee and Miguel Bordallo will continue as Secretary. I’ve worked alongside these individuals prior to being voted in as Chair, and the synergy and passion they bring will complement our drive to build up on our membership and provide training to our operators and professionals.

In our efforts to promote training, we were very fortunate to have Captain Derek Chambers from the Commonwealth of the Northern Marianas Islands (CNMI) provide a workshop on May 26, 2017 that covered several topics which included:

- How to comply with regulations
- How regulations applies to operations in the field
- How to disinfect valves and pipes that you replace – so you avoid positive bacteria samples, which leads to more sampling and reporting requirements

The workshop included current events and real data from the CNMI to illustrate how important it is to have regulations and the impacts it has when we don’t. Capt. Chambers also reviewed the sequence of events from the Walkerton, Ontario E. coli outbreak which reinforces why what we do is so critical.

The Western Pacific Subsection will hold a second Subsection Conference on June 12th, 2017 in the CNMI on Saipan as part of our outreach to our neighboring islands. Topics will continue with the theme of “Applying Adaptive Management and Emerging Technologies to Improve Water Utilities in Tropical Islands”. Members from AWWA-HIWPS and the Marianas Island Water Operator Association will be able to partner and share experiences together.

We also have 14 of our members that will be attending the ACE 2017 Annual Conference & Exposition which will be held from June 11 – 14 in Philadelphia, PA. Our members will have the opportunity to build on their skillsets and network with other professionals within the industry. §
On Saturday, May 6th, nineteen AWWA|HWEA Young Professionals (YPs) assisted in the installation of a "Stealth Rain Garden" at Kalihi Valley District Park in conjunction with a veteran's group, A Mission Continues. The project was organized by the City and County of Honolulu's (City) Storm Water Quality Branch (SWQ). HWEA donated all the materials, such as gravel and turf, for the rain garden construction. The "Stealth Rain Garden" construction is meant to control drainage in the park as past rain events have caused areas in the park to flood. Volunteer projects such as these allow for a unique public outreach opportunity. Not only do volunteers get to see first-hand the different layers and components which make up a rain garden, the volunteers interact with City personnel and can ask questions to learn more about the rain garden. Teaching citizens about the importance of managing...
stormwater will hopefully increase awareness and discourage pollution into our storm drain lines.

During the rain garden installation, many of our volunteers also participated in the stenciling and installation of storm drain markers on nearby storm drains and picked up trash along the roadway. The markers, which display "No Dumping" and "Drains to Ocean," also promotes awareness of stormwater and encourages residents to keep pollutants out of our storm drain system. After the construction of the rain garden, a plaque was installed at the edge of the project. The plaque describes what a rain garden is and why it's important.

Thanks to everyone who came out on a Saturday and volunteered their time for this event! §
Hawaii State Science and Engineering Fair Recap

By Mark Ohigashi
Student Education Committee Chair

AWWA—Hawai‘i Section was proud again to be a sponsor of this year’s 60th Annual Hawai‘i State Science and Engineering Fair (HSSEF) that took place at the Hawai‘i Convention Center on April 10-12, 2017. It is an outstanding accomplishment for the Hawai‘i Academy of Science to organize a burgeoning event every year for the last 60 years! Unlike the HSSEF, this is only our third straight year being involved as a bronze-level sponsor, but as in the years past, we have been involved with this event in more ways than just sponsorship—by providing volunteer manpower and two special agency awards. The HSSEF represents the brightest of Hawai‘i students that have competed for months in school and district science fairs leading up to this, the big one, the state’s only statewide student science fair. Each year, these remarkable students take the HSSEF’s focus of Science, Technology, Engineering and Mathematics (STEM) learning to new heights with projects such as this year’s Senior Division Top Overall State Winners, titled, “A Non-Invasive Morphokinetic Model for Aneuploidy Screening of Human Preimplantation Embryos,” “Using Virtual Reality and Inverse Kinematics to Control a Robotic Arm,” and “Determining the Effect of Parkinson’s Disease LRRK2 Mutations on Synaptic Vesicle Recovery.” Phew…over my head!

This is our second year sponsoring two special agency cash awards for projects that best represented the mission of AWWA, which is to provide solutions for the efficient management of water. A big congratulations to our award winners:

- **Evelyn Haase** (Molokai High School) – “Developing a pH Sensor Using a Raspberry Pi to Monitor Ocean Acidification: Year 2”

- **Jared Goodwin** (Hilo High School) – “Investigating Arsenic Contaminated Soil Movement from Waiola Pond due to Tsunami Waves: Investigating the Concentration of Heavy Metals in the Soil from the 1960 Hilo, Hawaii, Tsunami”

*continued on page 10*
A big mahalo goes out to our volunteers who represented AWWA – Hawai‘i Section this year! Joanna Seto and Mark Ohigashi volunteered to be non-judge project safety checkers on Monday, April 10th, a day before the science fair. Students were allowed to set up their project displays and volunteers were there to make sure that students’ displays met dimensional, safety and content rules. While working, it was a great opportunity to see all of the hard work and time that each student and student-mentor put into their projects and to “talk story” with them in an informal setting before the “real thing” the next day. In addition, Delwin Ching again graciously volunteered to be a judge for the Hawai‘i Science Academy to select winning projects for a variety of different categories. Again, thank you to our volunteers and we hope for even more next year!

The staff and volunteers at the Hawai‘i Science Academy who organize the HSSEF do a great and selfless job in securing a science fair for the state to make sure that Hawai‘i is well-represented at the Intel International Science and Engineering Fair (ISEF) held each year in different cities across the country—I was just told that Hawaii walked away from this year’s ISEF in Los Angeles, CA, with a whopping 13 awards, including both of our winners, Evelyn and Jared! Double congratulations! AWWA – Hawai‘i Section is honored to be a continuing sponsor for the HSSEF’s efforts and looks forward to continuing this support in the future. For more information on the projects, pictures, and winners from the 60th Annual HSSEF and the ISEF, please visit http://www.hawaiiacademyofscience.org/ and https://student.societyforscience.org/intel-isef.
On April 13, 2017, the HWEA/AWWA Young Professionals (YP) teamed up with the ASCE Younger Member Forum (YMF) to conduct the 6th annual Student Engineering Night at Webling Elementary School. At the event, three volunteers from YP ran two activities for the 25 4th – 6th graders who were in attendance. The first activity was a filter activity. The students created their own “wastewater” by smashing cookies and mixing them with water. They then created a filter out of an empty water bottle and limited supplies to attempt to treat the “wastewater” and produce the clearest end product. From the activity, the students learned about teamwork and material selection and even had a side lesson about “unflushables.” The second activity was one in which the students had to create a path for their water drop (represented by a ping pong ball) to travel from Point A to Point B past several obstacles. It was interesting to see the solutions that the groups came up with. Overall, it was a fun and educational night for everyone. Thank you to those who volunteered! §
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**Jeff Curl**  
503-939-8700  
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New AWWA Hawaii Section Members

Please welcome our newest Hawaii Section members!

Kathleen Beleno  Frankie Manglona  John James Labausa
Evan Kaneshiro  Kyle Taimanglo  Kaily Pascua
Chad Coleman  Vincent Tyquiengco  Janice Fujimoto
N'tasha Perez  Francis Lujan  Amanda Tanaka
Vincent Cepeda  Joseph Benavente  Gladys Baisa
Jeremiah Diaz  Erickson Marble

ENCOURAGE FRIENDS AND COLLEAGUES TO JOIN AWWA BY JUNE 30 AND GET MORE!

New individual members that join by June 30 receive 15 months of membership for the price of 12!

PLUS, share the benefits of membership and earn rewards.
Make sure your name and email address are included on the membership applications of everyone you refer.
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Why become a member of AWWA?

- **Stay informed**— Get the latest news on what’s happening in the water industry and access expert knowledge to help you do your job better.
- **Connect with Water Professionals**— Network with other professionals to share best practices and build relationships that could lead to your next job.
- **Local Access**— Your local Section offers you region specific news and information, events and training in your area and ways to help impact water issues in your community.
- **Earn CEUs**— Get classes, study guides, and technical training to earn or maintain your license — all at a discount. Members save up to 33% on books, AWWA Standards, education, webinars, Manuals of Practice and more!
- **Advance your career**— Present at a conference, publish an article or join a committee to elevate your professional profile. Access educational resources to stay ahead of the game.
- **Make a difference**— Have a direct impact on water issues affecting your community and help ensure a better world through better water.

To take advantage of this great offer:
1. Visit the [Individual Membership page](#).
2. Choose the correct Individual Membership type.
3. Enter promo code SECJOIN at checkout.
Newsletter Advertising

The Hawaii Section of the American Water Works Association (AWWA) is currently seeking advertisers for its quarterly newsletter. Advertising provides a direct message to a population of over 600 members statewide who are in need of the products or services being advertised. Although we have switched to electronic distribution of the newsletter, we feel that there is still equal benefit to advertising in the electronic newsletter as with the printed newsletter. In addition, advertising in the electronic newsletter can be in full color.

Please be aware that advertising in the newsletter is available only to businesses related to the drinking water field. Please also note that all advertisements will be submitted for review and approval by the AWWA Hawaii Section Board of Trustees for ad content.

<table>
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<th>Ad Size</th>
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<th>Cost Per Issue</th>
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<tr>
<td>(4)</td>
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<td>(5)</td>
<td>Full Page</td>
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Ads must be in a “camera ready” form, as a *.jpeg or *.tif, and must have a minimum resolution of 225 dpi – maximum resolution of 300 dpi.

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Safety Practices for Water Utilities
Secrets to Success: How to Prepare for Operator Certification
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The Business of Water: A Concise Overview of Challenges and opportunities
The Evolving Water Utility
The Importance of Utility Membership
Water Audits and Loss Control Programs 3rd Edition (M36)
Water Conservation Communications Guide
Water Conservation for Small and Medium-Sized Utilities
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Water Main Disinfection and Dechlorination
WSO: Water Transmission and Distribution*
Water Reuse for a Sustainable Future
We are AWWA
WSO: Distribution System

*New additions to the Section library
Committee Chairs 2016-2017
Through June 1, 2017

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(Vacant)

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Hawaii Section Website

The Hawaii Section has created a new website:  
www.hiawwa.org

Please visit the website for the latest information about the Section.

Editor of this Issue:

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Email: smukai@brwncald.com

Newsletter Articles

AWWA members are welcome to submit articles for the Newsletter. Please contact the editor for information.

Submissions for the Spring Newsletter are due by Friday, August 11, 2017.

Production Information Newsletter

The American Water Works Association Hawaii Section newsletter is published to inform its members of Section and International AWWA activities, meetings, educational opportunities and other matters of interest to the water community. The mention of trade names for commercial products does not represent or imply an endorsement by AWWA Hawaii Section.