Hawaii State Department of Health
Safe Drinking Water Branch

The Water Spot

July 2011

Volume 15, Issue 3

SDWB Sponsors 45 Small Water Systems Staff for the AWWA Hawaii Conference

The American Water Works Association (AWWA) Hawaii Section's 37th Annual Conference was held on May 3-5, 2011 at the Hawaii Convention Center in Honolulu. This year's theme, "Ua ka Ua, Kahe Ke Wai - Let the Rains Fall, Let the Waters Flow", emphasized the importance of water in our everyday lives.

As part of the SDWB's continuing efforts in supporting small water systems, 45 small water system staffs' registration fees were sponsored. The SDWB remains committed to supporting small water systems by providing technical assistance thru training opportunities. This offer was made in conjunction with SDWB's circuit rider program thru Rural Community Assistance Corporation (RCAC).

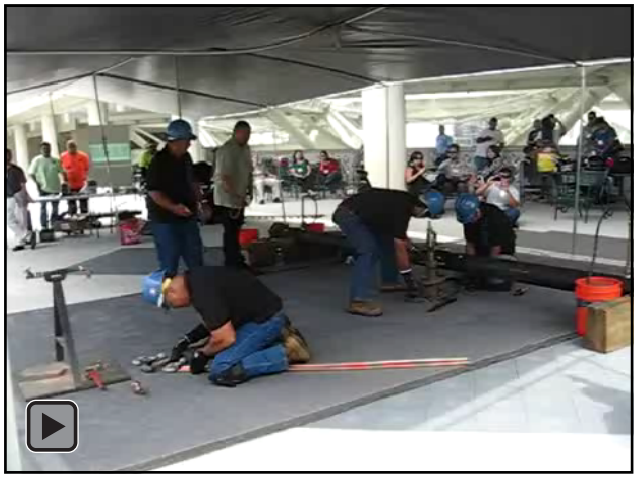
A Pre-Conference Workshop on Distribution System Operations was offered prior to the opening of the conference.

On day one, the Pipe Tapping Competition was the highlight. The Hawaii DWS Men's team came away with the victory with a 1:11.81 winning time. Watch the winning round below. The Honolulu BWS team took the Women's championship.

Hexavalent Chromium was the main topic of discussion on day two. Attendees also had a variety of technical presentations to choose from throughout the conference, such as GIS Implementation, Chemical Feed Equipment, Water and Energy Conservation, The Theory of Locating, and a Roundtable Discussion for Small Water Systems.

Besides training opportunities, the conference also provided abundant and invaluable networking opportunities.

Thank you to AWWA Hawaii for letting the SDWB be a part of the successful 37th Annual Conference!



Watch the Hawaii DWS Men's Team in the winning round of the Men's Pipe Tapping Contest. Adobe Reader 9 required. Or Click Here to View Link

Hot!

Special points of interest:

- **USDA Loan & Grant Programs**
- **New Standardized DSO & WTPO Examinations to Start Soon**
- **Standard Operating Procedure Training by HRWA Ends in August**

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What's New at USDA

The big news is that, after 30 years of Federal service with USDA Rural Development, Ted Matsuo has retired as Program Director for the Rural Utilities Service (RUS) and Community Facilities (CF) programs, collectively known as Community Programs (CP). In addition to heading the program, Ted also served as State Engineer, State Environmental Coordinator and RUS expert. He will be deeply missed.

The good news is that the remaining staff is anxious to speak with both public and private (non-profit) water systems on funding options. They want to let everyone know that a renewed effort will be made to promote their programs and assist with deserving water systems such as yours. The RUS loan (with a possible grant included) program targets small rural systems for funding and is designed to keep water user rates as close to County rates as practical. They offer low fixed interest rates and long term loans (up to 40 years).

Perhaps you are reluctant or unable to pay for a Preliminary Engineering Report due to the high upfront cost with no assurance of funding. RUS can provide up to $25,000 to pay for a portion of costs like these under the Preliminary Planning Grants (PPG).

USDA can also potentially provide other funding through the CF loan and grant programs for non-system capital costs. This program cannot cover operating costs but can fund items like computers, a solar energy system for your office, utility vehicles, and improvements to your building. It depends on the community being served, but communities with low population and low median household incomes may compete for grant funding from 15% to 75% of (non-operating) project cost up to a maximum of $50,000. Not all communities qualify, so you should call them to see if your community is eligible.

We know that many of you are also residents of rural communities that often don't have all the services enjoyed by larger communities. RUS also has funding programs for such purposes as waste water systems, broadband, reducing high energy costs, community computers, solid waste management or related technical assistance training and medical assistance/distance learning (through telecommunications). On the CF side, grants can be used for things like an ambulance, a school-related project, medical equipment or other essential community facilities. These are just a few examples, but usually any capital equipment and improvements or construction would be eligible.

The CP office is located on the third floor of the Downtown Hilo Post Office building. Please call any of the CP staff to discuss any of these programs. They can all provide you with general program information. For specific questions on RUS programs, call Samantha Shimizu at 808-933-8307. If you have questions regarding engineering, procurement or construction requirements, call Rocky Chenelle at 808-933-8333. You are also welcome to call Alton Kimura, Acting Program Director, at 808-933-8317. Rural Development also has offices in Aiea, Kahului, Kaunakakai and Lihue if you prefer to speak "face-to-face" with one of their staff members.

"…(USDA) is anxious to speak with both public and private (non-profit) water systems on funding options."

If your system is scheduled for Lead & Copper monitoring this year, you have 3 more months left.

Lead & Copper Monitoring Session Ends September 30

CCR Reminders

July 1 - CCR Distribution

September 30 - Submit CCR Certification Forms to SDWB

July 2011

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1 CCR Distribution Due O & E Plan Due	2
3	4 HOLIDAY	5	6	7	8	9
10	11 CT Report Due MRDL Report Due TCR Report Due Enhanced Coagulation Report Due Chemical Quarterly Monitoring Report Due	12	13	14	15	16
17	18	19	20	21	22	23
24	25 Kona WTPO Exam DSO Applications Due	26 Oahu & Hilo WTPO Exam	27	28 Maui WTPO Exam	29	30

August 2011

Sun	Mon	Tue	Wed	Thu	Fri	Sat
31	1	2	3	4	5	6
7	8	9	10 CT Report Due TCR Report Due	11	12	13
14	15	16	17	18	19 HOLIDAY	20
21	22	23 Board of Certification Meeting	24	25	26	27
28	29	30	31			

September 2011

Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1	2	3
4	5 HOLIDAY	6	7	8	9 CT Report Due TCR Report Due	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30 End of Lead & Copper Monitoring Period CCR Certification Form Due	

Quarterly Schedule

- **7/1 CCR Distribution Due**
  Community Systems
- **7/1 Operations & Emergency Plan Due**
  Surface Water Systems
- **7/11 CT Report Due**
  Surface Water Systems
- **7/11 MRDL Report Due**
  Disinfection Systems
- **7/11 TCR Report Due**
  Systems who complete their own tests
- **7/11 Enhanced Coagulation Report Due**
  Conventional Treatment Systems
- **7/11 Chemical Quarterly Monitoring Report Due**
  Systems with quarterly monitoring requirements
- **7/25-28 WTPO Exam**
  Kona, Oahu, Hilo, & Maui
- **7/25 DSO Applications Due**
  October 2011 Examinees
- **8/10 CT Report Due**
  Surface Water Systems
- **8/10 TCR Report Due**
  Systems who complete their own tests
- **8/23 Board of Certification Meeting**
  SDWB Honolulu Office 10:00 am
- **9/9 CT Report Due**
  Surface Water Systems
- **9/9 TCR Report Due**
  Systems who complete their own tests
- **9/30 End of Lead & Copper Monitoring**
  Systems notified in March
- **9/30 CCR Certification Form Due**
  Community Systems

Operator Certification

DSO Exam Pass Rate Remains Low

The April DSO Exam overall pass rate remained at a low of 32%. Sixty-two examinees sat for the exam on Oahu, Maui, Kauai, and the Big Island. Only 20 passed. Pass rates by grade level can be found in the table to the right.

The reports provided by the Association of Boards of Certification (ABC), writers of the examination, gave a breakdown of the exam topics and which were "mastered" and "not mastered" by the examinees. The breakdown of the top three "not mastered" topics per grade level is shown in the table below. "Not mastered" topics are those that examinees scored 40% or less within the category.

Grade	Passed	Examinees	Passing Rate
1	12	20	60%
2	4	14	29%
3	3	9	33%
4	1	19	5%
Total	20	62	32%

Overall DSO pass rate remains low at 32%.

Although Math problems continue to be an area requiring improvement across all grade levels, it was not the highest problem area for Grades 2 and 4, indicating some improvement in that area from past exams.

For those that took the exam, individualized reports specifying "not mastered" topics will be mailed after Board approval.

The next DSO exam will be given during the last week of October 2011. Applications will be due on July 25, 2011 for those who want to sit for the October exam.

Congratulations to those who passed the exam!

Grade	Top 3 "Not Mastered" Exam Topics		
1	Math	Perform Security Procedures	Disinfection
2	Perform Administrative Duties	Math	Evaluate Operation of Equipment
3	Math	System Inspection	Disinfection
4	Maintaining Equipment	Math	Install Equipment

"…(Math) was not the highest problem area for Grades 2 and 4, indicating some improvement in that area …"

To Do:

Math Whiz

1. What is the daily average TTHM given the following: Mon. 0.0079 mg/L, Tues. 0.0085 mg/L, Wed. 0.0095 mg/L, Thurs. 0.0076 mg/L, Fri. 0.0091 mg/L?
2. What is the detention time in hours for a basin that is 100 feet long, 15 feet wide and 10 feet deep if the flow is 1.5 MGD?
3. How many pounds of chlorine are required to treat 85 MG if the dosage is 0.95 mg/L?
4. Water rates are $1.25 per 1000 gallons. The meters are known to be 98% accurate. How much revenue is being lost annually if there are 12,000 customers and each uses 5000 gallons per month?
5. A pump runs at 5000 gallons per minute at a total head of 28 feet. What size motor in HP is required if the pump efficiency is 80%?

Answers: (1) 0.0085 mg/L, (2) 1.8 hours, (3) 673 lbs, (4) $18,000, (5) 44 HP

Operator Certification

New DVDs in the Operator Library

DVDs published by AWWA and the USEPA have been added to the Operator Library and are waiting to be borrowed. The DVDs mostly focus on safety, however there are a few others that cover sanitary surveys, security, and sampling. Borrowing the DVDs will be similar to the process of borrowing books. Contact Jodi Yamami at 586-4263 to check any of them out.

Although the content of these DVDs is applicable to training for DSOs and WTPOs, no CEUs will be awarded at this time.

The following is a listing of available DVDs.

AWWA DVDs

Trenching and Excavation
Water Utility Security
Confined Spaces
Working with Hazardous Materials
Safe Handling of Water Treatment Chemicals
Laboratory Safety for Water Professionals
Respirator Safety
Hazard Communication
Elevated Surfaces and Fall Protection
Safe Handling of Compressed Gas in the Laboratory
Forklift Safety
Eye Protection
Lockout/Tagout for Water Distribution
Hot Work
Night Work
Heavy Equipment Yard Practices
Indoor Crane Operation
Workplace Hearing Loss
Pipe Handling for Field Crews
Safety & Security Practices for Contractors
Work Area Traffic Control
Chlorine Safety
Utility Driver Safety Set
Utility Excavation
Ergonomics at Work
On the Job: Sampling
Reliable Coliform Sampling for Water Utilities
UV Disinfection for Large Water Treatment Plants
How Water Works

USEPA DVDs

Emergency Response Plan
Security Vulnerability Assessment & Emergency Response Plan
Sanitary Survey Inspection Before You Begin
Sanitary Survey Fundamentals Prep Course
Water Quality in Small Community Distribution Systems

"ABC . . . reviewed data from the survey and reconstructed the weighted task lists corresponding to examination questions . . ."

ABC Develops Standardized Examinations

In December 2010, all Hawaii operators were given an opportunity to provide feedback on their respective job duties thru an online survey, in an effort for ABC, writers of the certification examinations, to validate the subject matter of the examinations. Throughout the first part of 2011, ABC Validation and Examination Committee members reviewed data from the survey and reconstructed the weighted task lists corresponding to examination questions to more specifically match the actual findings from the survey. The changes will be reflected in the upcoming certification examinations.

The revalidation of job analyses achieved by the survey was completed with the goal to maintain compliance with the highest industry certification standards.

Only 6% of Hawaii operators participated in the survey. Thank you to those who took the time to participate. Your valuable input has been incorporated into the preparation of examination content.

Contact Operator Certification

Contact: Jodi Yamami
Phone: 808-586-4263
Fax: 808-586-4351
Email: jodi.yamami@doh.hawaii.gov

www.hawaii.gov/drinkingwater/opcert

STANDARD OPERATING PROCEDURES

Hawai'i Rural Water Association
1325 South Kihei Road
Suite 200
Kihei, HI 96753
Telephone: 808-495-0264
Fax: 808-495-0264
E-mail address: karrie@hawaiirwa.org
Website: www.hawaiirwa.org

FREE

AGENDA

7:30 a.m. - 8:00 a.m.	Welcome/Registration & Informational Update *Gary Byrd, HRWA*
8:00 a.m. - 11:00 a.m.	The Need For Standard Operating Procedures *Gary Byrd, HRWA*
11:00 a.m. - 12:00 p.m.	Lunch (on your own)
12:00 p.m. - 3:00 p.m.	Creating Standard Operating Procedures *Gary Byrd, HRWA*
3:00 p.m. - 3:30 p.m.	Review and Evaluation *Gary Byrd, HRWA*

The Hawai'i Rural Water Association is providing FREE "Standard Operating Procedures (SOPs)" training sessions at the following locations and dates. The sessions will provide information to water and wastewater system personnel regarding the need for Standard Operating Procedures that need to be carried out by the utility's personnel for all occasions and in all departments. Thus providing a uniform work environment. In addition, each course will provide 0.6 CEU credits, as approved by the Hawai'i Water and/or Wastewater Board of Operator Certification. We encourage individuals to register at least two weeks ahead of a session scheduled date by completing the attached registration form and returning it to the HRWA office. This will assist us in planning and preparing for each session.

June 2011

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1 Wailuku (Maui)	2	3	4
5	6	7	8	9 Moloka'i	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

Wailuku - State Building, Conference Room B, 3rd Floor, 54 High St.
Molokai - Department of Hawaiian Homelands, Kulana Oiwi Building, 600 Maunaloa Hwy, Kaunakakai, Molokai

July 2011

					1	2
3	4	5	6	7 Lahaina (Maui)	8	9
10	11	12 Kahului (Maui)	13	14 Waimea (Hawai'i)	15	16
17	18	19	20	21	22	23
24/31	25	26	27	28	29	30

New Dates

Maui (Lahaina) - Maui Department of Water Supply, Mahinahina Treatment Plant, Akahele Street, (at the pineapple gate on the road up to the Kapalua Airport, Mahinahina, Maui)
Maui (Kahului) - Maui Department of Water Supply, 2nd Floor, 614 Palapala Drive, Kahului, Maui
Hawai'i (Waimea) - Department of Water Supply, Waimea Baseyard, 65-1234 Opelo Road, Waimea, Hawai'i

August 2011

	1	2 Kona (Hawai'i)	3	4 Hilo (Hawai'i)	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

Hawai'i (Hilo) - Environmental Health Services Facility, Conference Room, 1582 Kamehameha Avenue, Hilo, Hawai'i
Hawai'i (Kona) - Department of Water Supply, Kona Baseyard, 78-6717 Mamalahoa Highway, Holualoa, Hawai'i

American Backflow Prevention Association

Hawaii Chapter

Announces

Cross Connection Control Examinations & Seminars

July 29 - General Tester Exam - 8:00 am - 4:00 pm

Pacific Pipe Company, 1255 Kuala St., Pearl City

Cost: $300 ($85 application fee & $215 at the exam site)

Apply with the national ABPA exam administrator by June 30 to be eligible to take the exam.

Applications may be found at http://abpa.org/tester.htm.

November 2 - Hawaii ABPA Seminar, 10th Edition Standards - 7:00 am - 4:30 pm

All ABPA testers and proctors will be required to comply with standards and procedures outlined in the 10th edition by January 1, 2012. To help with this transition the Hawaii ABPA will be hosting a one day seminar to feature presentations by Henry Chang, Jim Purzycki and other experts on what to expect with the upcoming changes. All ABPA testers, proctors and administrators are encouraged to attend.

7:00 – 8:00 AM	Registration / Exhibits Open
8:00 – 9:00 AM	State and County CCC Program Update
9:00 – 9:30 AM	ABPA Tester & Certification Program
9:30 – 10:00 AM	Break/ Exhibits Open
10:00 – 10:45 AM	Test Kit Construction & Care
10:45 – 11:30 AM	National Lead Free Bronze Requirements
11:30 – 12:00	USC FCCCHR 10th Edition Manual Update
12:00 – 1:00 PM	Lunch / Exhibits Open
1:00 – 1:45 PM	10thEdition Test Procedures for the RP
1:45 – 2:30 PM	10th Edition Test Procedures for the PVB
2:30 – 3:00 PM	Break / Exhibits Open
3:00 – 3:45 PM	10th Edition Test Procedures for the DC
3:45 – 4:30 PM	10th Edition Test Procedures for the SVB

Contact Gary Kong at Delco Sales, 808-842-7900 for more information.

November 3 - Proctor Training Session

November 4 - General Tester Exam

Applications may be found at http://abpa.org/tester.htm.

Contact Mike Fitzgerald at 808-330-6093 for more information.

Hawaii State Department of Health Safe Drinking Water Branch

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Phone: 808-586-4258
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The mission of the Safe Drinking Water Branch of the Department of Health is to safeguard public health by protecting Hawaii's drinking water sources (surface water and groundwater) from contamination and assure that owners and operators of public water systems provide safe drinking water to the community. This mission is accomplished through the administration of the Safe Drinking Water Program, Underground Injection Control Program (UIC), Groundwater Protection Program (GWPP), and the Drinking Water State Revolving Fund (DWSRF).

We're on the Web!
www.hawaii.gov/health/environmental/water/sdwb/index.html

We provide access to our activities without regard to race, color, national origin (including language), age, sex, religion, or disability. Write or call our Affirmative Action Officer at Box 3378, Honolulu, HI 96801-3378 or at 808-586-4616 (voice) within 180 days of a problem.

NEIL ABERCROMBIE
Governor of Hawaii

LORETTA J. FUDDY, A.C.S.W., M.P.H.
Director of Health

GARY GILL
Deputy Director for Environmental Health

SDWB Up Close - Hilo Office Volunteer

Mr. Jimmy Lee is a retired Environmental Health Specialist from the Department of Environmental Health, Alameda County Health Agency in northern California. After 35 years of service, Jimmy and his wife relocated to the Big Island.

Earlier this year, the SDWB became the lucky recipient of Jimmy's volunteer services. Over the course of a couple of months, Jimmy helped to complete a project for the SDWB Hilo Office at the request of the County of Hawaii Department of Water Supply to document the established dates of all bacteriological sample points for Hawaii County public water systems. In order to accomplish this task, Jimmy spent many hours reviewing files and searching for data. He then entered the established dates he found into a database. Thanks to Jimmy Lee the completed project became a reality.

Volunteer Jimmy Lee provided invaluable assistance on the Bacteriological Sample Point project in Hilo.

We are very grateful for his assistance. Thank you, Jimmy!