

LUA LINE



A Publication of the Hawaii Water Environment Association

Volume 14 Number 3

Internet Address: <http://www.hwea.org>

Winter 2001

PRESIDENT'S MESSAGE

By Steve Parabolicoli, 2001-2002 HWEA President

Welcome to the winter edition of the *Lua Line*. I hope all of you and your families have had a great holiday season. The latter part of 2001 has been a troubling time for America and the world. The effects of the events of September 11 will be felt for quite some time. However, we must move forward. If there is a message that those of us who live in Hawaii can send the rest of the world, then I believe it should be that people of all different races, cultures and religions can peacefully live together as we have done here in Hawaii for generations. Hawaii should be viewed as a model society in this regard for the world to emulate.

On another sad note, long time HWEA member, Felix Limtiaco passed away suddenly this past October. Felix was very active in protecting Hawaii's water environment both in his position with the City's Department of Wastewater Management and more recently with his company, The Limtiaco Consulting Group. Over the years, Felix gave several informative presentations at HWEA conferences, and he was always willing to share his knowledge and aloha with people he interacted with. Our sympathy goes out to his family and close friends. Felix will be missed.

There have been many WEF and HWEA events that have taken place in recent months. Foremost was WEFTEC, which was held in the beautiful city of Atlanta this past October. Several HWEA members were in attendance at WEFTEC with the Big Island "Beach Biscuits" representing HWEA in the Opera-



Steve Parabolicoli

"I encourage all PWO members to step up and contribute to our association."

tor's Challenge. Congratulations to team members Woody Tindal, Paul Balberde, Dwayne Fong and Mike Last for a job well done. Attending WEFTEC is a fantastic experience with numerous pre-conference workshops, facility tours and technical presentations. Probably the most impressive feature of WEFTEC is the massive exhibition hall where hundreds of equipment manufacturer's display their products. At the conference, Vic Moreland passed his National Director reigns over to Ken Ishizaki. Vic also tag-teamed with our Secretary-Treasurer, Peter Ono, to give an excellent presentation on their research at Sand Island Treatment Plant, where UV has been utilized to disinfect primary effluent. It must be noted that Vic and Peter were the only presenters to wear Aloha shirts and were mistakenly perceived to be identical twins by the audience!

Hats off to the Maui Turd Busters for hosting an outstanding 15th Annual PWO Softball Tournament on Veterans Day weekend at Kalama Park in Kihei. This year, three teams participated with teams from Kauai and the Big Island joining in the fun. Maui won the tournament this year but all participants were winners as a great time was had by all with good food and live music being provided. Oahu could not raise a team this year, but they were well represented by HWEA All-Star Linda Uchima and family. We look forward to next year's tournament, which will be held on the island of Kauai.

Congratulations to our Collection Systems Committee for holding their first annual Collection Systems

(Continued on page 2)

PRESIDENT’S MESSAGE

(Continued from page 1)

Conference on November 29–30, 2001, and also our Research Committee for hosting a one-day workshop on “Acceptable Uses of Recycled Water” on December 5, 2001. HWEA’s committees continue to provide our members and the community with timely educational opportunities!

The Executive Board would like to give a warm Mahalo to Ivan Nakatsuka who has “retired” as chair of our Student Activities Committee after several years of dedicated service. Great work Ivan! We would also like to welcome Kyle Yukumoto, who has taken over as chair of the committee. Kyle is an excellent choice for this role, and he has previously helped out with our Conference and Public Education Committees.

As this is my last President’s Message and since I am one of the few HWEA Presidents who have been of the “PWO” designation, I would like to offer fellow PWO members a few words of advice: “GET INVOLVED!”. HWEA needs more involvement from its PWO Section. There are a number of ways to get involved including: 1) Participate in the Operator’s Challenge at our annual conference. The challenge is a great way to sharpen your skills and if your team wins, you can represent HWEA at the WEFTEC Operations Challenge. 2) Participate in the Annual PWO Softball Tournament. This annual event is a great way to establish networking opportunities with fellow operations personnel and make new friends. 3) Join a Committee. The Safety Committee in particular is looking for a new Chair and new members. This committee would be an excellent choice for operations personnel as safety is a daily issue in wastewater collection and treatment. Another option would be to form an operations section on your home island as our friends from Kauai have done with the Kauai Operator’s Association. 4) Consider giving a presentation at our annual conference or at one of our specialty conferences. Presenting gives you an excellent opportunity to expand your career opportunities and gain public speaking skills. If you are shy, team up with another operator. Its much easier that way! Participation in HWEA is a very re-

warding experience. I encourage all PWO members to step up and contribute to our association.

Aloha, Steve

2001 WINTER JOB BANK

For vacancy announcements for the **City and County of Honolulu**, please call the Department of Environmental Services at (808) 527-6667.

For vacancy announcement for the **County of Hawaii**, please call the 24-hour Job Hotline at (808) 961-8618.

For vacancy announcements for the **County of Kauai**, please call the Department of Public Works at (808) 241-6610.

For vacancy announcements for the **County of Maui**, please call Carol Kurisu of the Department of Public Works and Waste Management at (808) 270-7850.

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NEWS FROM THE NATIONAL DIRECTOR

Victor Moreland, National Director
Ph. 1-808-836-6919, Fax 1-808-833-2068

Thank you for the chance to serve the Hawaii Water Environment Association for the last three years. It has been a great learning experience and opportunity to express to the rest of WEF the unique circumstances that we in Hawaii have to share. It is an experience I will never forget.



Victor Moreland

In the morning, WEF has a Board of Directors Orientation meeting that addresses:

- WEF Structure
- Duties of the Board
- Role of the Board
 - Governance of the Federation
 - Executive Committee - Role and Relationship to the Board
 - Director Position Description
 - Charge
 - Major Duties
 - Operational Responsibilities
 - Annual Conference Meetings
 - Director Participation in Committees
 - Legal Issues
- Parliamentary Procedures
 - Board of Directors' Meeting Process and Agenda for Saturday and Wednesday Board Meetings
 - Agenda/Key Issues
 - Business Plan
 - Year 2002 Board Briefing Plans

Next, is the Board of Directors Budget Briefing, where very frank discussions are held to speak about any concerns Directors may have regarding the proposed budget. After the briefing is the Board of Directors' Luncheon, which gives a great opportunity to network with other

Directors and find out more about how other MA's deal with various challenges of a volunteer organization.

This following is a summary of the major items that transpired at the meeting of the WEF Board of Directors on Saturday October 13, 2001.

Treasurer's Report

In summary, the current financial condition of the Federation is sound. WEF have to pay attention to a few issues and trends that do not look favorable. The WEF Executive Committee is addressing these through strategic initiatives. WEF is striving to maintain proper "reserve funds" while balancing the need to 1) keep dues reasonable, 2) use available funds to support new and existing programs and, 3) provide financial peace of mind for a "rainy day."

Partnering Agreements

WEF has continued to promote and establish partnerships with other organizations that have goals and objectives similar to WEF's to work together to achieve improvements in and to protect our water environment. This year agreements were made with the Association of Metropolitan Water Agencies (AMWA) and the Environmental & Water Resources Institute (EWRI) of the American Society of Civil Engineers (ASCE).

Constitution and Bylaws

Two changes were made: 1) changes authority to appoint the Executive Director, from the Board of Directors to the Executive Committee, and 2) provides language for the removal from office for Board of Director Members and WEF Officers. These both improve the effectiveness for the WEF to conduct it's business in an appropriate manner.

Election of Officers

The following were elected to serve in 2001-2002:

- President - James (Jim) H. Clark
- President-Elect - Robert (Bob) T. McMillon
- Vice President - Lawrence (Larry) P. Jaworski
- Treasurer - Erwin J. Odeal
- Director-at-Large - Julian Sandino
- Joe C. Stowe, Jr. becomes the Immediate Past President

Again, thank you for allowing me to serve. At this time of great concern for our nation, may we all be blessed with positive influences on our lives. Have a great holidays and see you at our next Annual Conference in February 2002. Mahalo and Aloha.....

WEF TECHNICAL CONFERENCE

October 12 to 16, 2001

Atlanta, Georgia

By Kenneth Ishizaki

The Water Environment Federation Technical Conference (WEFTEC) was held in Atlanta, Georgia, on October 12 to 16, 2001. WEFTEC is the premier water quality technical conference and exposition in North America.

A majority of the events were conducted in the Georgia World Congress Center, which is a cavernous structure easily accommodating the 15,000+ participants. The building is so large that it is possible not to see anyone from Hawaii throughout the entire day. I know a Hawaii contingent was in Atlanta because I saw many of them at dinner.

Besides providing a venue for technical presentations and exhibits on the latest developments in equipment, material, and instrumentation, WEFTEC provides an opportunity to meet with peers and exchange information on technical issues (i.e., water reuse, biosolids, etc.) and discuss changes in the structure of wastewater profession.

A milestone of the conference was the retirement of Ms. Quincalee Brown after fifteen years as Executive Director. She was the first woman and first nontechnical person selected for the post. Past members of the Executive Committee who had the opportunity to work with Ms. Brown have described her as articulate, responsive, and energetic.

Now for the important things. Atlanta is a beautiful and clean city with friendly residents. The most striking thing about the city, especially for local folks from Hawaii, is the hospitality of its people, except for a few taxi drivers. The State

of Georgia is home to two US presidents, Jimmy Carter and Franklin D. Roosevelt. Atlanta is the home of the Coca-Cola Company and the Cable News Network (CNN) whose owner was Ted Turner, owner of the Atlanta Braves. It is also the epicurean center for Southern food like catfish, hush puppies, and ribs.

Other attractions include the Martin Luther King, Jr. and Margaret Mitchell exhibits. For those of you who are not familiar with these people (yes, Lance, this means you), one was a civil rights leader in the 1960s and 1970s and the other was the author of the classic book *Gone With the Wind*.

In closing, the conference and exposition provided a means for the many dedicated scientists, engineers, operators, and managers to illustrate the good work being accomplished in the field of water pollution abatement.

Secretary-Treasurer's Report

as of October 31, 2001

Bank of Hawaii Accounts

Member Associations	\$5,731.79
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Merrill Lynch Accounts

Member Associations	\$5,571.50
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Conference	\$64,050.58
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<i>Petty Cash</i>	\$180.50
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TOTAL	\$75,534.37
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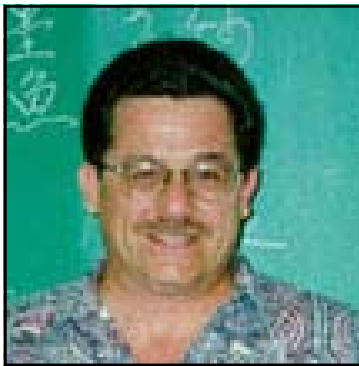
**WATER REUSE COMMITTEE
(Joint HWEA/Hawaii Section AWWA
Water Reuse Committee)**

**Eassie Miller, Committee Co-Chair
(HWEA Representative)**

Ph. 1-808-523-8499, Fax 1-808-533-0226

Elson Gushiken, Committee Co-Chair

Ph. 1-808-637-5078, Fax 1-808-637-4779



Eassie Miller



Elson Gushiken

Water recycling on Oahu continues to accelerate as the Honolulu Board of Water Supply's Recycled Water Program team continues to bring on board new recycled water customers in the Ewa-Kapolei areas. City and private golf courses, city parks, common landscaped areas and highway and city median strips in the Ewa-Kapolei area are already using R-1 recycled water. Kudos especially to Cal Sueoka, BWS Recycled Water Program Water Systems Manager, who

has been attending neighborhood board meetings to keep the Ewa-Kapolei community apprised of BWS' progress.

The Water Reuse Committee continues to work with the Department of Health's Wastewater Branch in reviewing and modifying the Reuse Guidelines. A revised version is expected by the new year.

The Water Reuse Committee is starting to plan the next Hawaii 2002 Water Reuse Conference which will be held on Kauai.

A reminder that the AWWA/WEF 2002 Water Sources Conference and Exhibition—Reuse, Resources and Conservation will be held January 27–31 at the Alexis Park Hotel in Las Vegas. Register online at www.awwa.org/02sources.

At the WEFTEC Water Reuse Committee meeting in Atlanta, committee chair John Morris reiterated the committees strong support for the next AWWA/ WEF 2004 Water Sources Conference and Exhibition to be held in Hawaii. Hawaii was well represented at the meeting by Eassie Miller, Victor Moreland, Ken Ishizaki and Elson Gushiken. Should Hawaii be selected as the host site, the conference will require strong local support from both HWEA and the Hawaii Section AWWA. Your Water Reuse Committee as well as other HWEA and Hawaii Section AWWA members will continue lobbying efforts to secure this event for Hawaii.

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PUBLIC EDUCATION COMMITTEE

Roy Abe, Committee Co-Chair

Ph. 1-808-524-3771, Fax 1-808-538-0445

Ann Tzuhako, Committee Co-Chair

Ph. 1-808-593-1264, Fax 1-808-596-0204

Public Education Committee members have been keeping busy on various ongoing projects. Progress has been made on putting together a HWEA display board to present information about our association. The display board, which intended to be used at our conference and various community events, will be of a “flexible” design (thanks to Velcro) where the display items can be changed to suit the function at which the board is used. The committee is also continuing its development of a Power Point/slide show on general wastewater treatment, disposal and reuse for school and community group presentations. The goal is to develop a reference library of photos and information so that HWEA members can quickly put together an informative presentation on general or specific water environment topics. Committee members are also continuing its participation in Moanalua High School’s seminar program promoting science, math and engineering to female students.

The Public Education Committee has several copies of WEF’s “Aqua Venturer” interactive computer game designed to educate students on various water environment topics. Feel free to contact any of the committee members if you would like to borrow a copy to try it out. This computer game designed for students so it may be too difficult for adults (early attempts by some HWEA members seem to confirm this!).

As reported in previous Lua Line articles, HWEA’s Public Education and Collection System committees are working on producing television public service announcements (PSAs) to educate the public on sanitary sewer overflow prevention. Much of the past year was spent obtaining funds for the project and to date, HWEA has secured \$65,000 for the project. DOH/EPA is providing a \$30,000 grant and the City



Roy Abe



Ann Tzuhako

and County of Honolulu has earmarked an additional \$30,000 in matching funds. HWEA was able to also obtain a \$5,000 grant from the McInerny Foundation. Mahalo to these organizations for their generous support!

Now that HWEA has secured funding for the PSA project, things are beginning to roll. CineGroup, a media consultant, has been retained to assist HWEA. CineGroup is presently contacting a number of celebrities to serve as spokespersons on the PSAs. CineGroup will soon begin generating scripts for the PSA with input from HWEA. The initial meeting with CineGroup was quite entertaining since these outgoing media folks were quite intrigued with the range of things found in sewers (like bowling balls and money).

HWEA will produce three PSAs with different messages. One will educate the public on not washing grease down the sink and throwing other extraneous things down the sewer (paper towels, rags, sticks, cans, toys, toxic materials, etc.). Another PSA will educate the public not discharging rainwater from gutter downspouts, outdoor drains, etc. to sewers and keeping cleanout covers on to minimize inflow. The subject of the third PSA is still under discussion – let us know if you have any good ideas.

With the September 11 tragedy affecting Hawaii’s economy, we certainly don’t want bad publicity associated sewage spills and water quality problems. Although the PSA’s will probably begin airing next year, we don’t need to wait to do our part in educating the public. All HWEA members should take an

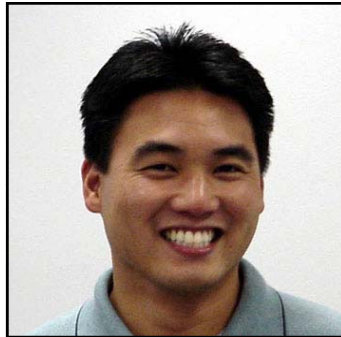
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CONFERENCE COMMITTEE

John Katahira Conference Co-Chair
Ph. 1-808-596-7790, Fax 1-808-596-7361
Dwight Nakao, Conference Co-Chair
Ph. 1-808-270-7988, Fax 1-808-270-7425

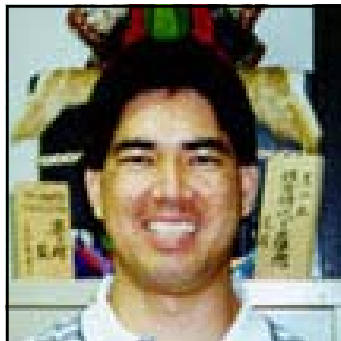
ALOHA!

The Hawaii Water Environment Association (HWEA), a member association of the Water Environment Federation, invites you to the 24th Annual HWEA Conference: February 6-8, 2002



John Katahira

For the first time ever, the Annual HWEA Conference will be held at the Hawaii Convention Center (this is an excellent opportunity to check out the new facility...it's awesome!). Your conference committee has worked extremely hard to plan a top-notch conference to compliment Hawaii's finest conference facility.



Dwight Nakao

A change in scenery definitely warrants a change in conference experience. This forthcoming conference is loaded with current, interesting, and relevant water/wastewater topics presented by first class speakers. The Pre-Conference workshop schedule is equally astounding: (1) Reading and Interpreting Design Drawings (leave your ego at the door to gain valuable and practical information); (2) Selected Topics in Secondary Biological Treatment presented by Professor David Jenkins of UC Berkeley and Denny Parker of Brown & Caldwell; and (3) Preparing for Audits Under the National Environmental Laboratory Accreditation Program – a special off-site pre-conference work-

shop for Hawaii's Laboratory Technicians.

Please be sure to visit
<http://www.hwea.org/2001conf.htm>

for additional conference information....you can download the registration forms and conference maps, too! There will even be a Casino Night during the Conference Banquet – should be lots of fun. And if all this is not incentive enough, there will be a grand prize giveaway of a laptop computer!

We have a good feeling this conference will be filled with lots of fun, lots of information, and lots of networking...don't miss it!!!

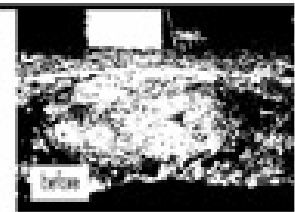
Dwight Nakao & John Katahira
 2002 Conference Co-Chairs

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RESEARCH COMMITTEE

Roger Babcock, Jr., Committee Chair
Ph. 1-808-956-7298, Fax 1-808-956-5014



Roger Babcock, Jr.

The Research Committee has recently completed a workshop on recycled water use targeted at farmers and produce wholesalers/retailers entitled “Mandatory agricultural irrigation with recycled water: Are we ready? The workshop was held on Wednesday December 5, 2001 at the new Kapolei Hale and was designed to raise awareness of revisions to DOH’s revisions to the Water Reuse Guidelines allowing the use of R-1 recycled water on unprocessed produce such as fresh fruits and leafy vegetables. The agenda of the workshop is to the right. The workshop was free for attendees and included a bento lunch and a tour of BWS’s Honouliuli Recycled Water Facility. The workshop featured two speakers from the Salinas Valley in California where water recycling has been practiced on fresh market produce such as artichokes and lettuce and sold throughout the US including Hawaii for years. One speaker was a farmer with hands-on experience using recycled water for fresh produce and the other was an engineer with the agency that oversaw the extensive background studies on bacteria and viruses on fresh fruit as well as the design, construction, and operation of the recycled water program which provides irrigation for 12,000 acres. In addition to HWEA, sponsors included the Honolulu Board of Water Supply, Hawaii State Department of Health, American Water Works Association, American Society of Civil Engineers, US Filter Cor-

poration, and the University of Hawaii Water Resources Research Center.

Mandatory Agricultural Irrigation With Recycled Wastewater: Are We Ready?
 Wednesday December 5, 2001
 Kapolei Hale Conference Room

AGENDA

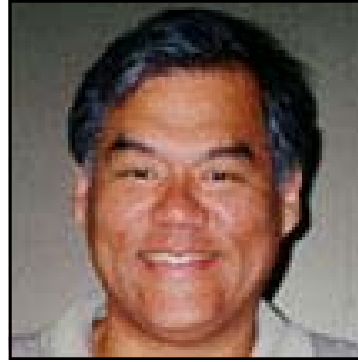
- 9:00 Introduction and welcoming remarks
- 9:10 Bruce Anderson – Director, Hawaii State Department of Health
The safety of recycled water used for irrigation
- 9:20 Brian Nishida – President, Del Monte Fresh Produce and Member, DLNR Commission on Water Resource Management
Water sources, availability, allocations, and integrated resource planning
- 9:40 Calvin Sueoka and Clayton Brown – Recycled Water Program, Honolulu Board of Water Supply
BWS recycling program, water quality, costs, current users, and future plans
- 10:00 Dennis Tulang – Chief, Wastewater Branch Hawaii State Department of Health
Overview of the DOH water reuse guidelines including treatment requirements, quality control, acceptable uses, compliance and reporting requirements
- 10:35 Steve Parabolicoli – Wastewater Reuse Coordinator, County of Maui
Current recycled water use in Hawaii, the Maui reuse ordinance, and economics
- 11:05 Curtis Weeks – General Manager, Monterey County Water Resources Agency, CA
Scientific pathogen studies, market analyses and experiences with farmers, wholesalers and retailers on the long road to the successful implementation of the Monterey water recycling project for fresh produce
- 11:50 LUNCH – Hawaii retail/wholesale produce buyer
Marketability issues related to recycled water irrigation
- 12:25 Jim Hollyer – University of Hawaii College of Tropical Agriculture and Human Resources
Water reclamation in relation to the new FDA food safety guidelines
- 1:05 Dale Huss – Vice President of Production, Oceanmist Farms Castroville California
Personal experiences with recycled water use on fresh produce including quality reliability, best practices, nutrient content, and market acceptability
- 1:50 Summary and concluding comments/feedback
- 2:30 Tour: Board of Water Supply’s Honouliuli Recycled Water Facility

COLLECTION SYSTEM COMMITTEE

Jon Nishimura, Committee Co-Chair
Ph. 1-808-944-1821, Fax 1-808-946-9339
Tina Ono, Committee Co-Chair
Ph. 1-808-523-4067, Fax 1-808-523-4642

The first Bi-Annual HWEA Collection System Workshop was held at the Ala Moana Hotel in Honolulu on November 29 and 30, 2001. The workshop featured a broad range of topics of interest to professionals in the wastewater collection system industry, including operation & maintenance, planning, engineering & design, regulatory policies, and new technologies & methods. Presentations were made by a combination of speakers from the mainland who provided information on new and emerging policies and technologies, and speakers from the local community who gave their perspectives and experiences with Hawaii's own cutting edge technologies. Mainland speakers included two members of the WEF Capacity Management, Operations & Maintenance (CMOM) National Task Force, Rick Arbour and Jim Courchaine, and John Jurgens, representing the National Association of Sewer Service Companies (NASSCO). Local authorities included Honolulu's Department of Environmental Services Director Tim Steinberger, and Maui's Wastewater Reclamation Division Chief Tracy Takamine, who gave an update of their respective county's sewer rehabilitation programs. A high-powered presentation of Honolulu's Collection Systems Maintenance Division's rise from "Stone Age to New Age" was given by the trio of Clem Paden, Eddie Chiu and Walter Medina.

The two-day event was well attended, with over 100 participants, including a dynamic mix of administrators, managers, engineers, collection system supervisors and operations personnel from both the private and public sectors from each of the four Counties. A special "early morning" session was held to discuss the possibility of developing a voluntary wastewater collection system operator certification program. Over 30 interested attendees were present to voice their ideas, opinions and concerns. The Collection



Jon Nishimura



Tina Ono

Systems Committee and HWEA Board will definitely be looking further into the requirements of developing a program that fulfills the needs of this segment of our membership. Watch for more developments on this program in future issues of the Lua Line, as well as the HWEA website - www.hwea.org.

Overall, the workshop appeared to be a success, bringing together participants from the various sectors to focus on the planning, design, construction, management, operations and maintenance of wastewater collection systems. The plan is for HWEA to hold these workshops every two years, alternating with the HWEA Reuse Conference.

ANY MEMBERS OUT THERE THAT ARE INTERESTED IN PARTICIPATING IN THE COLLECTION SYSTEM COMMITTEE ARE ENCOURAGED TO CONTACT JON NISHIMURA AT 944-1821 OR TINA ONO AT 523-4067.



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PRELIMINARY LIST OF PRESENTATIONS
Hawaii Water Environment Association
24th Annual Conference
Hawaii Convention Center, Honolulu, Hawaii
February 6-8, 2002

Affiliation	Presenter(s)	Title/Topic
City & County of Honolulu	Chris Cunha	Selection of Computerized Maintenance Management System for the City and County of Honolulu
CCH Water Quality Laboratory	B.I. Asato, R.B. Gose	<i>Streptococcus bovis</i> Linked to High False-Positive Rates for Enterococcus USEPA Method 1600 on Sewage from a Municipal Wastewater Treatment Facility in Hawaii
CCH ENV	Jim Baginski	Fats, Oil and Grease (FOG) Control Program
CCH ENV, BWS, US Filter, Aqua Engineers	TBA	Competitiveness and Privatization in Hawaii (Roundtable Discussion)
Department of Health	Dennis Tulang and Tomas See	Update on Department of Health Recycled Water Guidelines
Honolulu Board of Water Supply	Erwin Kawata	Board of Water Supply Recycled Water Program
HWEA Laboratory Committee	Barney Asato, Anita Fernandez	Voluntary Split-Sample Program for Environmental Laboratories Improves Bacteriological Data
UH Dept. of CE/WRRC	Roger Babcock, Jr.	Pharmaceutical residuals in wastewater effluents and their fate in the environment
UH WRRC	Roger Fujioka	Sunlight Inactivation of Sewage-born Microorganisms in Water
Blackhawk Pipeline Assessment Services	Alison Ratliff, Tom Iseley	Digital Imaging for Characterizing Pipeline Defects
Brown and Caldwell	Garrett Leong	Design and Operation of Self-Cleaning Wet Wells
Brown and Caldwell	Vic Moreland and Peter Ono	UV Considerations When Working With Low Quality Waters
Brown and Caldwell	Woodie Muirhead	Differentiating Anoxic, Anaerobic, and Aerobic Zones
Clean Water Services	Rob Baur	Hypochlorite Reality
Enviroquip	Hiren Trivedi	The Symbio™ Process: Simultaneous Nitrification /Denitrification by Monitoring NADH Fluorescence
Kennedy/Jenks, South Bayside System Authority	Mike Joyce (K/J), Anna Yen (K/J), Bob Donaldson (SBSA)	Plastic Media Fixed Film Reactors – Design Assumptions Revisited
Maui EKO Systems	Rubens Fonseca, Mike Hegedus	Composting Biosolids, Marketing Compost
Pacific Biodiesel	Bob King	Conversion of Waste Cooking Oils and Grease Trap Wastes to Diesel Fuel
Purafil Environmental Systems Division	Brad Stanley, Christopher O. Muller	Choosing an Odor Control Technology – Effectiveness and Cost Considerations
RM Towill Corp.	Bert Saito	TBA
RM Towill Corp.	Douglas Yamamoto	Burn It, Bury It or Reuse It: Sludge Handling at the Sand Island WWTP
RM Towill Corp.	Leighton Lum	What's in the Tube? Inspection of the Ala Moana Force Main
URS Corporation	James Kwong, Matthew Frances	Comparison of Contract Performances of Force Main Installed by Horizontal Directional Drilling and Geotechnical Design Approaches
US Filter	Ken Windram	Microfiltration and Reverse Osmosis, Theory and Practice
Vaughan	Mike Donnelly	Understanding a Pump Curve
Watson-Marlow Bredel Pumps	Bill Schiller	Peristaltic Pumping

Note: This is a list of abstracts received to date. This information is preliminary and subject to change. For an update on the 2002 HWEA Conference Technical Program, please visit our website at: www.hwea.org.

15th ANNUAL PWO SOFTBALL TOURNAMENT

WORLD SERIES IN MAUI



← Kauai Nitrifier pitcher delivers his trade mark mountainball pitch to Big Island Beach Biscuit batter Jack Johnson.



→ PWO Representative Jon Kawamura of the Big Island team legs one out against Kauai. The Big Island defeated the Nitrifiers 9 - 7 to advance to the championship game against the eventual champion, the Maui Turd Busters.



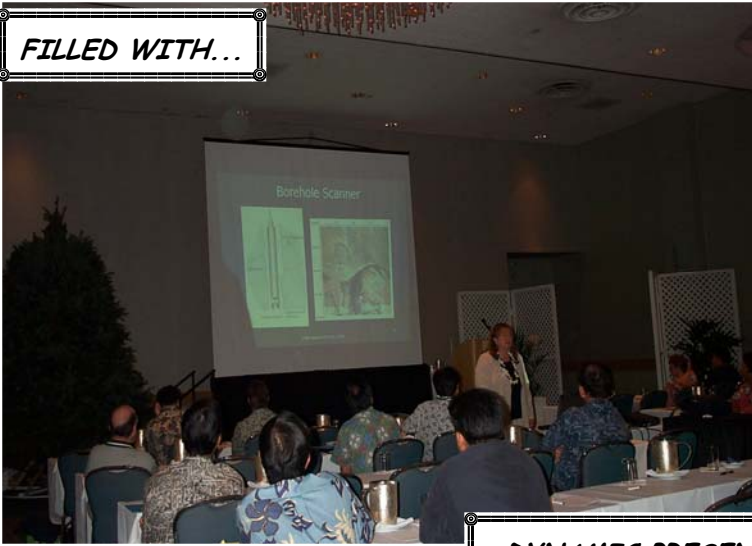
← HWEA member Dan Clark applying the Maui secret sauce to the huli huli steamship rounds which were the main course at the tournament banquet.

→ HWEA All Star Linda Uchima with grand daughter Nia.



FIRST BI-ANNUAL HWEA COLLECTION SYSTEM WORKSHOP
ALA MOANA HOTEL in HONOLULU
November 29 & 30, 2001

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Ph. 1-808-270-7420, Fax 1-808-270-7425
Yvonne Miyasato, Vice-Chair
Ph. 1-808-270-7419, Fax 1-808-270-7425

The HWEA would like to welcome the following new members

- | | |
|----------------|--------------|
| Wesley Lim | Raymond Hoe |
| Charles Krogh | Wilson Myers |
| Aaron Hutchins | Delwyn Ching |

MEMBERSHIP RECRUITMENT CONTEST
 (August 1, 2001 to July 31, 2002)

The 2001-2002 recruitment drive is under way. Share the benefits of WEF/HWEA membership with fellow professionals. Each time you recruit a new member, your name will be entered in a drawing to be held in August, 2002:

- | | |
|-------------|---|
| Grand prize | \$1,000 American Express Gift Certificate |
|-------------|---|

All sponsors who recruit 5 or more new members will receive a complimentary gift from WEF.

HWEA MEMBERSHIP STATUS AS OF NOVEMBER 2001	
Active	217
Corporate—Private	7
Life	6
Operations	107
Retired	2
Student	8
TOTAL	347



Alma Takahashi

To become a recruiter, tell prospective members about the value of WEF/HWEA membership (member discounts, networking opportunities, technical information, professional development, committee involvement, etc.) and give them a WEF membership application. Be sure to print your name and WEF ID # on the “WEF Sponsor Name” and “Sponsor ID” line before giving the application to a colleague. You will receive sponsorship credit when your prospect joins. Applications can be obtained from the Membership Committee or www.hwea.org. All applications and inquiries can be sent to:

HWEA
 PO Box 2422
 Honolulu, HI 96804
 -or-
 Alma Takahashi
 County Wastewater Reclamation Division
 200 South High Street
 Wailuku, HI 96793

PUBLIC EDUCATION COMMITTEE (cont.)

(Continued from page 6)

active role in educating their families, friends and others in the community on keeping grease, extraneous materials and rainwater out of the sewer system. If we all pitch in to help minimize sewage spills and sewer clogging through effective public education, everyone wins. Benefits include lower sewer bills for everyone, less middle-of-the-night spill calls for our fellow collection system maintenance folks, and less impacts on our water environment and tourist economy.

If you would like to help out on the Public Education Committee, call Roy Abe at 522-74525 or Ann Tsuhako at 593-1264.

PWO NEWS

Jon Kawamura, PWO Representative
Ph. 1-808-847-8374, Fax 1-808-848-6532

Happy Holidays everyone!!! A lot has happened since the last article. First off, if you have never been to WEFTEC, I would suggest making this a goal. Do you want to buy a pump? Do you want to buy blower? May I interest you in a new van for your camera system? WEFTEC has it all. WEFTEC is like having our local conference and multiplying it by at least a hundred. It was great being able to talk to the many vendors and many others in the same field that we work at. Walking around and visiting the many vendors gave my shoes a workout. Vendors ranging from lab supplies to SCADA equipment as well as vendors wanting to sell the many types of treatment processes were all under one huge roof. The technical sessions were well planned, and they were plentiful. Some of the subjects included membrane technology, plant security, process control and many, many other topics.

The other event at WEFTEC was the operator's challenge. This year the "Beach Biscuits" represented Hawaii in this challenge. The challenge was planned very well where things just flowed from one event to another. The first event that all the teams sat through was process control. This was sort of like taking the operator certification exam. One thing with this is that more than one person could look at the question and answer it. So you don't have to know it all to answer the questions.

The second event that the team went through was the safety event. The safety event had to do with two people going into a simulated contaminated area, remove a person (dummy), and repair a broken piece of pipe.

The third event was the pump event. The pump the team had to work on was a Flygt dry pit submersible pump model 3102, 5 Hp. The seal had to be changed and the wiring had to be changed from either 230 to 460 or 460 to 230 volt.



Jon Kawamura

The fourth event was the collection system event. The team had to remove a section out of an 8-inch diameter PVC pipe, drill and install a 4-inch service saddle in the replacement section of pipe and place the replacement section in the 8-inch pipe that had a section removed.

The fifth event was the lab event. There was a list of six possible lab events. The events consisted of pH meter calibration, Dissolved Oxygen meter calibration, Chlorine residual using DPD colorimetric procedure, standard solution preparation, lab calculations and perform a titration.

By observing all of the events, I know each and every operator and non-operator can perform all of these events. There were some teams made up of men and women. There were also divisions of teams where they separated the team that practices for a living to teams that are weekend warriors. So, this is one way that you can make it to WEFTEC.

Next years "Ops" challenge will be in the windy city of Chicago. So put your team together, and come join us at HWEA's operations challenge. For more information on the "Ops" challenge, please contact me.

World Series in Maui

On November 10, 2001, the battle amongst friendly rivals on the friendly island of Maui took place. It was a double elimination sports challenge. There were three teams there, Maui, Kauai and Big Island.

The first game was between Maui and Kauai. Maui came up victorious in that confrontation. Next up were Maui and the Big Island. The Big Island just couldn't get the ball to hit the bat. Then came lunch. All the participants were treated to lunch prepared by

(Continued on page 15)

PWO NEWS

(Continued from page 14)

the great cooking and hospitality of Maui. After a quick two heaping plate full of the ono kind grinds, the Big Island and Kauai were next up. The Big Island had a strategy of keeping the ball on the ground so it would be hard for the fielder to pickup. Well the strategy must have worked because the Big Island Team just squeaked by.

The next game was between Maui (undefeated) and the Big Island (one lost). Well, the Maui Turd Busters took the Big Island boys to school. The Big Island team tried the strategy of trying to tire out the Maui Team. The game kind of ran out of innings for the Big Island team and Big Island tired faster because they forgot that they had to run for those well-hit balls. The base path length for a home run was shorter than chasing after those hard hit, thru the gap, non-stopping 12-inch round things called restricted flight softballs. Congratulations to the Maui Turd Busters. After the game there was entertainment and food. The Maui chef's prepared the food and what a

spread they had for us to enjoy. What a feast and hats off to the people involved in the making this event happen.

Have a safe and joyful holiday season.

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msc@wef.org	address changes, membership inquiries, subscription inquiries, or anything related to membership
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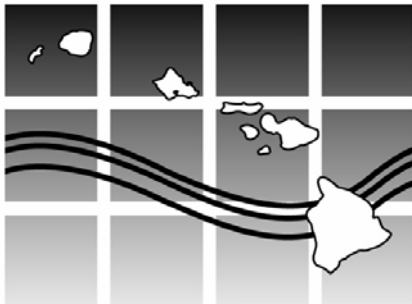
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The *Lua Line* is a publication of the Hawaii Water Environment Association. It is published three times a year, with Spring (April - May), Summer (August - September), and Winter (December - January) issues. Its readership consists of over 400 individuals comprised of consulting and government engineers, wastewater treatment plant operators, laboratory technicians, university research staff, equipment vendors, students, and concerned citizens.

If you are interested in advertising in the *Lua Line*, please contact Anna Lee at 1-808-591-8820 or Greg Chung at 1-808-488-0477.

HWEA/WEF CALENDAR OF EVENTS

EVENT	DATE
AWWA/WEF 2002 Water Sources Conference and Exhibition (Las Vegas, Nevada)	January 27-30, 2002
24th Annual HWEA Conference - Hawaii Convention Center (Honolulu, Hawaii)	February 6-8, 2002
Disinfection 2002 (St. Petersburg, Florida)	February 17-20, 2002
Watershed 2002 (Fort Lauderdale, Florida)	February 23-27, 2002
16th Annual Residuals and Biosolids Management Conference (Austin, Texas)	March 3-6, 2002
WEF/AWAA Joint Management 2002 (Charlotte, North Carolina)	March 24-27, 2002
Odors and Toxic Air Emissions 2002 (Albuquerque, New Mexico)	April 27-May 1, 2002
HWEA Spring <i>Lua Line</i>	May 2002
WEF/CWEA Collection Systems 2002 Conference (San Francisco, California)	May 29-June 1, 2002
8th Annual Industrial Wastes Technical & Regulatory Conference (Atlantic City, New Jersey)	June 23-26, 2002
Plant Operations 2002 (Kansas City, Missouri)	August 4-6, 2002
WEFTEC 2002 75th Annual Conference & Exposition (Chicago, Illinois)	September 28-October 2, 2002
WEFTEC 2003 76th Annual Conference & Exposition (Los Angeles, California)	October 11-15, 2003



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