

# LU A LINE

*A Publication of the Hawaii Water Environment Association*

Volume 12 Number 2

Summer 1999

## PRESIDENT'S MESSAGE

*By Lori Kajiwara, 1999-2000 HWEA President*

**H**ot Hot Hot! It's Summer Time and HWEA is still on fire! Our Specialty Committees are working hard on upcoming conferences and programs for the new millennium in water protection. This year we'll be fine tuning our committees and even adding not one, but two new committees.



*Lori Kajiwara*

A correction to the first issue, our very own Lance "Air" Manabe has a 5 foot vertical jump, not horizontal...but you knew what I meant. And Lance represented the Hawaii WEA well at the MA Leadership Conference in April and WEF Regional Meeting in May. He has brought back good ideas to improve our committee work that we will be implementing this year. One recommendation, trip participants will be required to follow up with a "trip report" not only to justify travel but to enlighten members on what was learned at the conference. And, check out his photo in the June 1999 WEF Highlights publication. He is proudly wearing his 5S Shovel! Lance will also be looking into updating the web page so that all our information will reflect the new year.

Due to the hard work and diligent effort of Public Education Co-Chair David Nagamine and then Co-Chair Steve Parabolicoli, our video "Water Recycling in Hawaii" is being well received throughout the islands and has been asked to be shown at the National WEFTEC Conference in November in New Orleans. If you're one of the lucky ones, you may have already seen it on OLELO on Oahu or AKAKU on Maui. The Committee will be submitting the well received video at the National Conference for a Member Association Public

Education Award. Great job David and Steve!

In the meantime, Steve Parabolicoli has begun crunching our financial reports in the Quicken program and cranking out those reimbursement checks on a timely basis. He's also been helping Lance and I keep our meetings on track.

We are up to 11 specialty committees plus the Conference Committee. This year, we are expanding our horizons making worthy changes. One goal for the year is to improve our Committees through communication and networking with our National Counterparts. We also hope to activate our own membership. But with the rising costs of goods and services and a lag in the economy, we must scrutinize spending. (Darn, no more Spend, Spend, Spend thinking.) We will still encourage workshops and seminars through monetary donations, however, should there be a lack of HWEA participation (such as the Operator Challenge), expenditures may not be cost effective. If we see a rise in participation from all Counties, then the spending will be worth the cost of training and shipping.

As always, we want to insure that the National organization understands our concerns for water protection but within our own unique island situation.

It was proposed at our last Executive Committee Board Meeting to add a Pretreatment Committee and a Collections Systems Committee. In the lead as the Committee Chairpersons are Dwight Nakao

*(Continued on page 2)*

## PRESIDENT'S MESSAGE

*(Continued from page 1)*

and Tina Ono & Jon Nishimura respectively.

Dwight is the Pretreatment Coordinator at the Wastewater Reclamation Division, County of Maui and has already recruited members for the committee. He has been attending the workshops and conferences and hopes to pass on knowledge to our members association about the importance of Pretreatment as well as to keep up with our national counterparts. Tina Ono has been active with HWEA and is the most knowledgeable of the flow dynamics of the overall system as she is the project manager for the SFAS development. She also is involved with the WIMS group assisting in keeping the system up to date. Tina also helped with the development of the Collection System Maintenance Scheduling program. Jon Nishimura is a project manager for Fukunaga & Associates, Inc. Honolulu. He has over 20 years of civil engineering experience, including water, wastewater and site design projects. Jon's most notable achievement is his work on Honolulu's Long Range Sewer Rehabilitation Project since its inception in 1993. They have been recruiting fellow co-workers and peers for the Collections Systems Committee.

After an initial meeting, whether or not to keep the committees as one or two subcommittees will be decided. The Executive Committee is excited to have such talent and knowledge to begin the journey towards the new millennium and to institute National concerns as well. Please support them and if you are interested in joining either committee, please call on them.

Audrey Pak and Kevin Nakamura, Co-Chairpersons for the Conference Committee have already begun the task of planning the first HWEA conference of the new millennium June 5-7, 2000 at the Neal Blaisdell Center (tentatively). The Convention Center is still an option. Their sub-committee chairpersons are lined up and ready to go! The theme is "Facing the Wastewater Challenges for the New Millennium." See you at

## In This Issue of the Lua Line Volume 12, Number 2

	pg
President's Message	1
The Secretary-Treasurer's Report	3
News from the National Director	4
PWOD News	5
Membership Committee	6
Report on Executive Committee	8
Conference Committee	9
Student Activities Committee	13
New Collection Systems Committee	18
New Pretreatment Committee	19
Research Committee	20
Water Reuse Committee	22
Public Education Committee	23
Safety Committee	24
Laboratory Committee	25
HWEA/WEF Calendar of Events	26
HWEA Specialty Committee Rosters	27
HWEA BOD & Specialty Committee Chairs	28
1999 Summer Job Bank	29

the Conference!

Kevin not only accepted the position of Conference Co-Chairperson, but also inherited the Membership Committee from Tessa Ching who is on maternity leave. According to the figures, we are 400 members strong (with 76 delinquent). C'mon members, pay your dues. You won't want to miss out on the action!

Tina Unebasami (now Tina Nakasone) keeps busy chasing after the Lua Line writers and editors. For the size of our membership and Tina's staff, our newsletter is timely, fashionable and a contender among our mainland counterparts. Good job Tina and your staff!

Roger Babcock and his comrades are deep in the planning of the Sanitary Sewer Overflow (SSO) Workshop set for November 1999 at the Royal Lahaina, Maui. They are expecting a great turnout at the workshop which will include mainland speakers. ASCE and HWEA have both donated monies to this workshop and all will benefit from attending it. Roger has already invited Dwight,

*(Continued on page 3)*

**PRESIDENT'S MESSAGE**

*(Continued from page 2)*

Tina and Jon to be active in the planning of the workshop.

With the Legislature "off duty", Robin Matsunaga can breathe a sigh of relief and relax until next year. With his help and expertise in writing to the Committee on Labor and Environment and Committee on Energy and Environmental Protection, HWEA supported House Bill 1548 which defined recycled water. The executive committee of HWEA supported H.B. 1548 and its definition of recycled water. The legislature passed H.B. 1548 which gives meaning to highly treated water, such as R-1 water, that is a valuable resource and should be put to beneficial use. We need to encourage reuse through irrigation of golf courses and agricultural lands, recharge of aquifers and use in industrial plants." Thank you Robin, I couldn't have said it without you.

Grant Moriwaki our PWOD Representative is promoting the Annual Golf Tournament set for August 29, 1999 on Kauai sponsored by the Kauai Operator's Association (KOA). And, if you're still in shape for some swinging action, the PWOD Softball Tournament will be held in Hilo on November 13, 1999. The Big Island is hosting the tournament which they plan on winning. Congratulations to "Kauai Nitrifiers" our challengers for the WEFTEC Operators Challenge in New Orleans, October 1999. Let's wish them the best!

NELAC (National Environmental Laboratory Accreditation Conference) is a national laboratory accreditation program affiliated with EPA and other governmental agencies. Barney Asato, Lab Committee Chair is urging the DOH to require Hawaii laboratories to be NELAC certified. Barney encourages all labs that report data should be NELAC certified so that regulatory agencies are assured of accuracy of their data and results.

Water Reuse, the catch phrase for the end of the 20th century will be even bigger in the year 2000 with the great Water Reuse Conference scheduled for September 2000 on the Big Island. Eassie

Miller has begun the task of planning the Conference and hopes to keep it going if Hawaii wins the bid for Hawaii to host the National Water Reuse Conference for the year 2002. The other choice location is Las Vegas. Eassie and committee are in communications with California to be a part of the National Water Research Institute to establish UV disinfection protocol related to reclaimed water production.

Safety first. Dan Peters is always researching on "how to" keep us safe and has expanded his knowledge to the safety procedures of HIV in Wastewater from WEF's library.

If YOU are interested in learning more about HWEA or interested in joining HWEA or a committee, please call Steve Parabicoli at phone 270-7417, fax 270-7425 or e-mail parabicoli@sportsmail.com or for national updates, <http://www.wef.org>.

Until we meet, thank you for your support and encouragement and let's get ready as we move our water world into the new millennium.

Aloha, Kaj

<b>Secretary-Treasurer's Report</b>	
as of May 31, 1999	
<b><i>Bank of Hawaii Accounts</i></b>	
Member Associations	\$10,032.56
<b><i>Merrill Lynch Accounts</i></b>	
Member Associations	\$20,452.17
Conference	\$27,101.72
<b><i>Petty Cash</i></b>	<b>\$92.50</b>
<b>TOTAL</b>	<b>\$57,678.95</b>

## NEWS FROM THE NATIONAL DIRECTOR

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

**T**he 1999 WEF Regional Meetings were held in five separate locations throughout the mainland from March to May. Asheville, North Carolina was the first site, Montreal, Quebec was next, followed by Kansas City, Missouri, then Oakbrook, Illinois, and lastly Stevenson, Washington. The Hawai'i team which included Lance Manabe (Vice President), Grant Moriwaki (PWOD Representative), Allen Perry (WEF PWOD Regional Director), James Honke (WEF Executive Committee) and I went to the Stevenson meeting.



*Vic Moreland*

I will leave the reporting of that meeting to the capable hands of the other attendees and simply report on the Director's Meeting (first day afternoon). Director's attending this meeting represented Alaska Water and Wastewater Management Association, Arizona Water and Pollution Control Association, British Columbia Water and Wastes Association, California Water Environment Association, Hawai'i Water Environment Association, Nevada Water Pollution Control Association, Pacific Northwest Pollution Control Association (Host Member Association), Rocky Mountain Water Environment Association, Water Environment Association of Texas, and the Water Environment Association of Utah.

The directors received a WEF 1998 Financial Report noting that it was a successful year with more funds than expected (additional \$58K) available for transfer to reserves (a good thing). Publication revenues had a shortfall caused by lower purchases than anticipated. A number of directors felt the shortfall may be due to higher

prices than members are willing to pay for some of the prime publications. It was requested that WEF staff present the pricing strategy to the directors at future meeting.

North American federation membership is experiencing a slight decline and concern was expressed whether the decline will continue. Several directors pointed out that we may not have attracted as many young professionals as is possible and that recruitment efforts should refocus toward a broader potential membership of the allied professions. Multiyear dues membership was also discussed as a possibility with details needing to be addressed prior to final commitment.

Partnering (WEF and local MA) on specialty conferences received positive comments as a possible win/win situation for both. This would mean active participation by the local MA to improve the success for the specialty conference held in their region with both entities enjoying the positive results.

A brief discussion was held regarding the Water Planet project, which the directors were supportive of the public education benefit but concerned about the cost and schedule. A much longer and more thorough discussion took place with all regional meeting attendees.

As member of the Sunset Committee, as James Honke was last year, a management committee of the Board of Directors, we are required to review the charge and need for continuation of all committees once every four years and make recommendations to the Board of Directors. This year we reviewed the Asia Pacific Regional Committee, the Europe/Middle East/African Regional Committee, the International Coordination Committee, the Latin American Regional Committee, the Manufacturers and Representatives Committee, the Membership Committee, the Student Activities Committee, and the WEF Management Policy Advisory Committee. Each of these were reviewed by the individual committees and Sunset Committee members, then

*(Continued on page 5)*

## PWOD NEWS

**Grant Moriwaki, National Director**  
**Ph. 1-808-681-3138, Fax 1-808-681-5459**

Once again another challenge is over. I would like to thank all of the judges who helped me in the Operations Challenge in March.



*Grant Moriwaki*

The team that will be representing Hawaii is the Kauai Nitrifiers. They will be going to New Orleans in October for WEFTEC '99! I hope that next year more teams will enter, as the winners will be going to Los Angeles. The conference chairs and I had a lot of comments on how to improve it for next year.

Our next challenge will be the Annual Inter Island Softball Tournament which will be held in Hilo on November 13, 1999 at Walter Victor Fields. It's still in the planning stages, but if you have a team, let me know as soon as possible. We are also looking into a day of golf. If you have any questions, please call me at 1-808-681-5066.

## NEWS FROM THE NATIONAL DIRECTOR

*(Continued from page 4)*

discussed by the Sunset Committee, and recommendations make to be presented to the Board of Directors at the next meeting at WEFTEC 99. Any details about this review are available by just asking for them.

We are over half way through this year and I hope everyone has enjoyed the summer months and are looking forward to the rest of the year. Remember, ask not what your association can do for you, but what you can do for your association.

## NOMINATIONS FOR YEAR 2000-2001 HWEA OFFICERS

Nominations are open in search of an interested, energetic and dedicated HWEA member to serve as Secretary-Treasurer for the year 2000-2001 term. In the past the current Secretary-Treasurer moves in to the Vice-President position and the Vice-President becomes the new President. However all positions are technically open to those eligible. Eligibility requirements include being an active HWEA member, PWOD member, designated corporate member representatives and life members. If you would like to nominate someone, or if you would like more information regarding the responsibilities and duties of HWEA officers, please contact Leighton Lum at 842-1133.

The deadline for nominations is December 1, 1999. The actual election of officers will be held at the last quarterly meeting before the annual conference. At this meeting, nominations may also be made from the floor by eligible voting members present.

**FUKUNAGA & ASSOCIATES, INC.** 1388 KAPIOLANI BLVD.  
 2ND FLOOR  
 HONOLULU, HAWAII 96814  
 PH. (808) 944-1821  
 FAX (808) 946-9339

Consulting Engineers

## MEMBERSHIP COMMITTEE

**Kevin Nakamura, Committee Chair**  
**Ph. 1-808-847-8374, Fax 1-808-848-6532**  
**Jay Nakandakare, Vice-Chair**  
**Ph. 1-808-847-8330, Fax 1-808-848-6532**

The Membership Committee would like to congratulate the participants of the 1998-1999 HWEA member Round-up. This recruitment period was open from August 1, 1998 till July 31, 1999.



*Kevin Nakamura*

The following people recruited new members and are now eligible for Recruitment Rewards and a Raffle prize which will be awarded in September.

Recruitment Rewards:	Members Recruited:
Deluxe Quartz CD Desk Clock	2-9
Deluxe CD-ROM Carry Case	10-19
Mini Computer AM/FM Clock Radio	20-49
Portable CD-ROM Player	50+

To be a recruiter, hand a potential member a HWEA/WEF membership application, being sure to print your name and WEF ID# in the "Sponsor Name" section. After the application has been processed you will be credited with the sponsorship. Send all inquiries or application mailings to:

HWEA  
 P.O BOX 2422  
 Honolulu, Hawaii 96804  
 - OR -  
 Kevin Nakamura  
 c/o Sand Island WWTP  
 1350 Sand Island Parkway

### RECRUITER

### NEW MEMBERS RECRUITED

Roger Babcock	2
Steven Ching	4
Tessa Ching	4
Craig Chung	1
Royce Fukunaga	1
Scott Gushi	1
Lori Kajiwara	1
Doug Lee	1
Lance Manabe	1
Mark Moreno	5
Guy Moriguchi	1
Grant Moriwaki	5
Kevin Nakamura	13
Dennis Nishimura	3
Erwin Ozoa	1
Steve Parabolicoli	1
Allen Perry	1
Jay Stone	2
Valerie Suzuki	1
Linda Uchima	3
Tina Unebasami	2
Gerald Yoshimoto	5

### MEMBER SERVICE E-MAIL

<a href="mailto:msc@wef.org">msc@wef.org</a>	address changes, membership inquiries, subscription inquiries, or anything related to membership
<a href="mailto:pubs@wef.org">pubs@wef.org</a>	order publications, check on order status, price quotes
<a href="mailto:confinfo@wef.org">confinfo@wef.org</a>	registration questions and requests for conference information
<a href="mailto:techniq@wef.org">techniq@wef.org</a>	technical questions
<a href="mailto:webfeedback@wef.org">webfeedback@wef.org</a>	your comments



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## REPORT ON EXECUTIVE COMMITTEE MEETING

July 15 - 17, 1999 at San Juan, Puerto Rico

By James K. Honke

The main item of business of this WEF Executive Committee (EC) meeting was to conceptually approve the Business Plan for 2000 - 2003 and the Budget for 2000. The reason for a conceptual approval is documents will be subject to some editing and updating prior to WEFTEC. Final approval is by the Board of Directors at WEFTEC.



James Honke

Balancing the budget turned out to be a major effort but it was accomplished. The following are some other items discussed that may be of particular interest to members of HWEA.

### WEF GLOBAL STRATEGY

WEF has done an assessment of the global opportunities for WEF and its members and has drafted a global strategy to take advantage of them. In order to remain the leader in technological information, WEF must be ready to move as the opportunities develop. Rather than compete with other international organizations, WEF is looking to forming a Global Water Alliance with them so that the efforts of all will be complementary. Initial contacts have been made with several such organizations. Another strategy is to continue forming international Member Associations (MAs), and, as they develop the capability to do so, have them serve as WEF's regional representatives.

### TREASURER'S REPORT

The results for 1999 to-date is not too promising, as income is lagging behind projections. Advertising revenues have fallen and sales of

publications will be lower because the products are behind schedule. Usually when there is a decline in income from an activity, there is a corresponding decrease in expenses for that activity but it is too early to tell whether this is occurring. The bright spot is that the WEFTEC Exposition which is one of the main sources of income is ahead of projections. were much better than earlier estimates. Hopefully, the year will end with at least a contribution of some funds to reserves.

### E-MEMBER

To keep up with the boom in business being conducted electronically, WEF will be developing an e-member category. These members will pay lower dues than an active member and will receive less services. Although the details are still being worked on, those members would be able to purchase things at member rates through the internet.

### WEF WEBSITE

The website continues to be a success. One of the budget items for 2000 is for a new position to manage the website. This person will be working to continually improve the site and make it easier to navigate. Other improvements would to sell WEF products through the site (e-commerce) and to make the site more attractive to advertisers.

### LIFE MEMBERSHIP

There was a proposal to allow people who have been WEF members for 35 years to convert to Life Members (no dues). The present requirement is for the member to also be 65 years old. Updated numbers show that there would be a significant negative impact on income from dues. Therefore, options such as waiving of dues only if the person is retired were discussed. WEF staff will be looking into this further.

## CONFERENCE COMMITTEE

**Kevin Nakamura, Conference Co-Chair**

**Ph. 1-808-847-8374, Fax 1-808-848-6532**

**Audrey Uyema Pak, Conference Co-Chair**

**Ph. 1-808-847-8308, Fax 1-808-848-6532**

The year 2000 will mark the 22nd annual Hawaii Water Environment Association (HWEA) Conference. It is currently being planned and will once again be held at the Neal S. Blaisdell Center in Honolulu. The theme for the conference will be "Facing the Water Environment Challenges of the New Millennium."



*Kevin Nakamura*

As with past conferences, the annual event will feature a Pre-conference work shop for both Operators and Engineers, technical sessions and different companies displaying their various products and services.

The Operators Challenge, which gives the operators a "Chance to Shine" by demonstrating their skills as operators, will be the center stage of the exhibit area.

The Program Committee is looking for ideas for the different technical sessions. If there is a particular



*Audrey Uyema Pak*

topic that is currently of importance or uncommon to many operators, engineers, lab personnel or anyone associated with wastewater; let the committee know, it will be reviewed for possible inclusion in the program.

The social events will

include the President's Reception, Conference Banquet and possibly a day at Hawaii Water Park.

This years Conference Committee consists of the following members:

**Kevin Nakamura, Conference Co-Chair**

Department of Environmental Services

City and County of Honolulu

1350 Sand Island Parkway

Honolulu, HI 96819

Phone: 1-808-847-8374 Fax: 1-808-848-6532

E-mail: MDA0094@co.honolulu.hi.us

**Audrey Uyema Pak, Conference Co-Chair**

Department of Environmental Services

City and County of Honolulu

1350 Sand Island Parkway

Honolulu, HI 96819

Phone: 1-808-847-8308 Fax: 1-808-848-6532

E-mail: MDA0053@co.honolulu.hi.us

**Leland Lee, Publication Chair**

Belt Collins Hawaii

1680 Ala Moana Blvd, 1st Floor

Honolulu, HI 96813

Phone: 1-808-521-5361 Fax: 1-808-538-7819

E-mail: llee@beltcollins.com or

leland@beltcollins.com



CIVIL ENGINEERING AND PLANNING  
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1132 Bishop Street, Suite 1003

Honolulu, Hawaii 96813-2830

Phone: (808) 524-3771

Fax: (808) 538-0445

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**CONFERENCE COMMITTEE** *(continued from page 10)***Tom Myers, Program Chair**

Brown and Caldwell  
119 Merchant St, Suite 200  
Honolulu, HI 96813-4499  
Phone: 1-808-523-8499 Fax: 1-808-533-0226  
E-mail: tmyers@hawaii.rr.com

**Mike Nishimura, Registration Chair**

GMP Associates  
1100 Alakea Street, Suite 1800  
Honolulu, HI 96813  
Phone: 1-808-521-4711 Fax: 1-808-538-3269  
E-mail: gmpassoc@lava.net

**Cindy Masuoka, Social Events Co-Chair**

Department of Design and Construction  
City and County of Honolulu  
650 S. King Street  
Honolulu, HI 96813  
Phone: 1-808-527-5843 Fax: 1-808-523-4642  
E-mail: MCA0034@co.honolulu.hi.us

**Wade Thode, Exhibits Co-Chair**

Department of Environmental Services  
City and County of Honolulu  
1350 Sand Island Parkway  
Honolulu, HI 96819  
Phone: 1-808-847-8326 Fax: 1-808-845-4718  
E-mail: MDA0034@co.honolulu.hi.us

**Grant Moriwaki, Operators Challenge Chair**

Department of Environmental Services  
City and County of Honolulu  
91-1501 Geiger Road  
Ewa Beach, HI 96706  
Phone: 1-808-681-3138 Fax: 1-808-681-5459

**Dr. Kenneth E. Sprague, Contributions Chair**

Director, Dept. of Environmental Services  
650 S. King Street  
Honolulu, HI 96813  
Phone: 1-808-527-6663  
E-mail: MAA0035@co.honolulu.hi.us

**Peter Ono, Assistant Chair**

Brown and Caldwell - Phone: 1-808-523-8499  
E-mail: pono@hawaii.rr.com

**John Harrison, Assistant Chair**

R.M. Towill Corp. Phone: 1-808-842-1133  
Out of State: 7/2/99-1/1/00 Ph: 1-503-657-9553  
E-mail: johnh@wwix.com

**Anna Lee, Registration Co-Chair**

Engineering Concepts, Inc.  
1150 S. King St, Suite 700  
Honolulu, HI 96814  
Phone: 1-808-591-8820 Fax: 1-808-591-9010  
E-mail: eci@gte.net

**Craig Chung, Social Events Co-Chair**

Department of Design and Construction  
City and County of Honolulu  
650 S. King Street  
Honolulu, HI 96813  
Phone: 1-808-527-5147 Fax: 1-808-523-4642  
E-mail: MCA0045@co.honolulu.hi.us

**David Yamada, Exhibits Co-Chair**

Department of Environmental Services  
City and County of Honolulu  
1350 Sand Island Parkway  
Honolulu, HI 96819  
Phone: 1-808-847-8366 Fax: 1-808-847-6532

**Allen Perry Jr., Assistant Chair**

Department of Environmental Services  
City and County of Honolulu  
91-1501 Geiger Road  
Ewa Beach, HI 96706  
Phone: 1-808-681-3138 Fax: 1-808-681-5459  
E-mail: MDA0065@co.honolulu.hi.us

**Leighton Lum, Assistant Chair**

R.M. Towill Corporation  
420 Waiakamilo Road, Suite 411  
Honolulu, HI 96817-4941  
Phone: 1-808-842-1133 Fax: 1-808-842-1937  
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**HWEA 22nd ANNUAL CONFERENCE**  
 June 5, 6 & 7, 2000  
 Near S. Blaisdell Center, Honolulu, HI

# # #  
 # # #

# CALL FOR PAPERS!

The Hawaii Water Environment Association (HWEA), a member section of the Water Environment Federation (WEF), is seeking papers for presentation at its 22nd Annual Conference. The conference will include a wide variety of topics related to the wastewater field with an emphasis on **water and biosolids reuse, disinfection, and odor control**. Other presentation topics may include:

- Collection and Treatment Process Design
- Facilities Operations and Troubleshooting
- Nutrient Removal
- Regulations / Enforcement
- Hazardous Waste
- Environmental Laboratory
- Computer Systems and Instrumentation
- Management and Administration of Environmental Facilities

If interested, please submit abstracts in hard copy and/or electronic format (250 words) along with the proposed title, name(s) of speaker(s), author (s), company/agency affiliation, address, telephone and facsimile number, and e-mail address.

Abstracts are due by **February 1, 2000**. Please send the abstracts to:

Tom Myers  
 HWEA Conference Program Chair  
 P.O. Box 2422  
 Honolulu, Hawaii 96804

Or e-mail to Tom Myers at [tmyers@hawaii.rr.com](mailto:tmyers@hawaii.rr.com)

For additional information, please contact Program Committee Chair: Tom Myers of Brown and Caldwell at (808) 523-8499, by facsimile at (808) 533-0226, or by e-mail at [tmyers@hawaii.rr.com](mailto:tmyers@hawaii.rr.com).



**CALIFORNIA WATER  
ENVIRONMENT  
ASSOCIATION  
72<sup>ND</sup> ANNUAL CONFERENCE  
APRIL 16-19, 2000  
(SUNDAY-WEDNESDAY)  
at the Hyatt Regency &  
the Sacramento Convention Center**

Please join us for the first CWEA Annual Conference of the 21<sup>st</sup> Century. The conference will feature technical sessions in the areas of: Biosolids; Collection Systems; Engineering and Research; Government Affairs; Operator Training; Safety; Student Activity; Electrical/Instrumentation; Industrial/Hazardous Waste; Laboratory; Maintenance Training; Public Education; Super Group; and Innovative Treatment.

Other events scheduled include technical tours of the City of Davis and the Sacramento County wastewater treatment plants, Folsom Dam and the biosolids land application at Silva Ranch.

View the latest equipment, products and services presented by over 150 exhibitors at the Monday-Tuesday exhibition and join the exhibitors for a hosted Reception on Monday night featuring delicious food, drink and live music.

Enjoy some down time with the Sunday golf tournament at Teal Bend Golf Course and the Sludge Trudge being held on Tuesday at the State Capitol.

Spouse/Guest events scheduled include a tour of Old Town Sacramento, a scrapbooking seminar, wine tasting in the Gold Country and much more.

## **SAVE THESE DATES!!!!!!**

For further information visit the CWEA web site, at <http://www.cwea.org>, or contact the Conference Co-Chairs.

Marco Palilla  
916-565-4888  
[mpalilla@carollo.com](mailto:mpalilla@carollo.com)

Kent Craney  
916-875-9202  
[craneyk@pwa.co.sacramento.ca.us](mailto:craneyk@pwa.co.sacramento.ca.us)

## STUDENT ACTIVITIES COMMITTEE

Ivan Nakatsuka, Committee Chair  
 Ph. 1-808-533-3646, Fax 1-808-526-1267

### SEARCH FOR NEW RECIPIENTS

The rising cost of tuition at the University of Hawaii, and other universities throughout our country, will make it even harder for students to afford a good college education. Over the past few years, HWEA has financially assisted several well-deserving students by awarding them scholarships of up to \$2000.



Ivan Nakatsuka

As promised, students are now eligible if they or their parents, are HWEA members as of September 30, 1999 rather than December 15, 1998.

We again reach out with this invitation to our members to apply for the HWEA 2000 scholarships for themselves, or their dependents. The official announcement, with more information, is included in this issue of the Lua Line.

### Island Utility Services Ad



Ask for details!

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  - Low Maintenance Requirements & Expense
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 Website: www.grindhog.com  
 E-mail: get@grindhog.com

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## 2000 HWEA SCHOLARSHIP PROGRAM

### **PURPOSE**

To provide financial assistance to HWEA members and their dependents seeking higher education, and to encourage academic excellence.

### **ELIGIBILITY**

1. Any dues-paying member of HWEA (including PWOD) or member's dependent (claimed as a dependent on the member's most recent income tax return) since September 30, 1999.
2. Must be at least a freshman in the Fall 2000 semester at a college or university, enrolled full-time in a bachelors, masters, or doctorate degree program.
3. Curriculum of study (or major) to include engineering, public health, or natural sciences (e.g. biology, chemistry, geology, microbiology, oceanography, physics, etc.), as related to the protection and enhancement of the water environment and associated public health.
4. Previous HWEA scholarship awardees are not eligible.

### **AWARD**

Up to two \$2,000 awards may be made each year. Awardee(s) will be invited to the HWEA Conference awards luncheon at no charge.

### **ENTRY REQUIREMENTS**

In order to be considered, applicants must submit the proper application form (both pages), provide a transcript of grades for the most recent academic year and submit a letter of application, including the following application form and the items listed in Item 7. of the application form..

### **SELECTION**

The number of awards to be made and the selection of the awardee(s) will be determined by the HWEA Executive Committee. Consideration will be given to applicants who are dedicated to their fields and have set goals for themselves which are consistent with the advancement of the objectives of WEF and HWEA.

### **TIME SCHEDULE**

- Applications must be submitted (or postmarked) no later than December 31, 1999.
- Awards will be announced at the HWEA Conference on March 2, 2000. (date subject to change)
- Awards will be available for Fall 2000 (for Spring 2000, if already enrolled at a college/university) and will be presented to the recipient upon proof of registration.

FOR MORE INFORMATION, PLEASE CONTACT:  
IVAN NAKATSUKA (Phone: 533-3646, Fax: 526-1267)  
APPLICATION FORMS MAY BE REPRODUCED.

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**SCHOLARSHIP APPLICATION FORM**

1. Name of Applicant \_\_\_\_\_ SSN \_\_\_\_\_

Permanent Home Address & Zip Code \_\_\_\_\_

\_\_\_\_\_

Current Mailing Address & Zip Code \_\_\_\_\_

\_\_\_\_\_

Business Phone \_\_\_\_\_ Residence Phone \_\_\_\_\_

2. Name of Member (if applicant is a dependent) \_\_\_\_\_

3. Intended Use of Scholarship in  Fall of 2000 or  Spring of 2000, if already enrolled at a college/university (check appropriate box):

Name and location of college/university \_\_\_\_\_

\_\_\_\_\_

Curriculum/Major \_\_\_\_\_

Full-time:  Yes  No

Degree Program  Bachelors  Masters  Doctorate

(Indicate, if for Bachelors)  Freshman  Sophomore  Junior  Senior

Expected date of degree completion \_\_\_\_\_

Date of entry into degree program \_\_\_\_\_

4. Other Colleges/Universities Attended

Name of Institution	Date Attended		Major	Degree Sought	Diploma Granted?
	From	To			

5. List three references (other than relatives).

Name	Address	Phone Number

6.

Attach a transcript of grades for your most recent academic year.

7. Please submit a letter of application addressed to the HWEA Executive Committee covering the following:
- a Reason for desiring a scholarship. Indicate to what expense(s) award will be applied.
  - b Description of how your curriculum of study is related to the protection and enhancement of the water environment and associated public health.
  - c Academic interest/vocational plans, including any plans for graduate work.
  - d Interests and activities: hobbies, memberships, offices held, etc.
  - e Employment - major work since high school graduation, type of work, name of employer, address, full-time or part-time, value of experience.
  - f Any other information that may assist the Executive Committee in making a decision.
8. Submit the application package (postmarked) by **December 31, 1999** to:

**HWEA  
P.O. Box 2422  
Honolulu, Hawaii 96804**

**Attention: Scholarship Committee  
Ivan Nakatsuka**

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WEFTEC AD

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## NEW COLLECTION SYSTEMS COMMITTEE

HWEA will be starting up a new specialty committee that focuses on wastewater collection and transport systems. A handful of HWEA members have provided the initial startup tasks that need to be completed to get this new committee rolling.

In order to get an idea of what this new committee is all about, read on:

### MISSION STATEMENT

*To Protect Public Health and the Environment by Promoting the Safe and Efficient Collection and Transport of Wastewater.*

### OBJECTIVES

1. *Provide a link with the national (WEF) Collection Systems Committee to exchange information.*
2. *Provide a forum to review, discuss and address local and national issues involving wastewater collection systems, including technological advancements, and regulatory policies.*
3. *Encourage participation of HWEA members who have interest in the broad range of collection systems topics such as:*
  - *Collection system operations and maintenance*
  - *Planning and design*
  - *System construction and rehabilitation*
4. *Provide a local source of information regarding the development of new technologies and methods affecting the planning, design, construction and operation of wastewater collections systems.*

### POSSIBLE COMMITTEE ACTIVITIES

1. *Establish subcommittees to focus on specific topics involved with wastewater collection systems.*
2. *Organize workshops or seminars to present information on relevant issues concerning wastewater collection systems.*
3. *Maintain active contact with the WEF national Collection Systems Committee.*
4. *Promote public education to inform the community of the proper use and function of the sewer system.*

Among the many issues affecting the wastewater industry is the current effort by the U.S. Environmental Protection Agency (EPA) to establish a national policy to address discharges from sanitary sewer collection systems, commonly referred to as sanitary sewer overflows (SSO's). EPA anticipates having a National SSO Policy developed by the end of this year. Several local wastewater agencies have been issued notices of violation of the Clean Water Act from DOH and EPA. It will be very interesting to see how the National SSO Policy will affect their compliance efforts.

One of the goals of the HWEA Collection System Committee will be to provide policy makers and regulators information about Hawaii's unique environment and make sure that our local conditions are considered when "National" policies are developed.

In addition to regulations and policies, new technologies, and standards of construction and system operation often need to be tapered to suit

*(Continued on page 19)*



## RESEARCH COMMITTEE

**Roger Babcock, Committee Chair**

**Ph. 1-808-956-7298, Fax 1-808-956-5014**

The research committee has been working to organize a one-day workshop on sanitary sewer overflows (SSOs). The workshop will be co-sponsored by HWEA and the Hawaii Section of ASCE. The



*Roger Babcock*

workshop will take place on November 19, 1999 at the Royal Lahaina Hotel on Maui. SSOs are a very relevant current topic with both Honolulu and Maui Counties currently operating under consent decrees for SSOs and the USEPA currently promulgating new SSO regulations. The committee has been able to get several speakers from the mainland to come and share their insights. The projected cost of the workshop is \$60 for WEF and ASCE members (additional charge for non-members). A special group rate for hotel rooms will be available. See the advertisement in this issue. (a mail-out flyer will be sent in mid-September):

The Water Environment Research Foundation (WERF) has recently put out RFPs for several research projects. There are three types of RFPs; unsolicited topic projects (proposals due January 2000, awards in August 2000), solicited topic projects (proposals due October 29, 1999, awards in April 2000), and emerging technologies projects (proposals due November 1999, awards in April 2000). A list of the solicited projects is included below. Remember, many of the WERF projects are awarded to consulting firms and utilities (not just universities). See the WERF web page for more details on each project, submittal forms, etc. (<http://www.werf.org>).

### Some RFP's and Titles listed by WERF

- 00-CTS-2:** Determine the Effect of Individual Wastewater Characteristics and Variances on Primary Clarifier Performance (2 yr, \$100K)
- 00-CTS-3:** Develop a Statistically Based Protocol to Evaluate the Capacity of Activated Sludge Systems (2 yr, \$150K)
- 00-CTS-4:** Assessment of Technologies for Screening, Floatable Control, and Screenings Handling (1 yr, \$100K)
- 00-CTS-5:** Determine the Extent of Redundancy Required to Support the Level of Risk (1 yr, \$75K)
- 00-CTS-6:** Best Practices for Treatment of Wet Weather Flows (1 yr, \$75K)
- 00-CTS-7:** Decision Support Systems for Wastewater Facilities Management (2 yr, \$200K)
- 00-CTS-8:** Feasibility of Membrane Technology for Biological Wastewater Treatment (2 yr, \$125K)
- 00-CTS-10:** Evaluate Feasibility of Methods to Minimize Biomass Production from Biotreatment (2 yr, \$150K)
- 00-ECO-1:** Accounting for Toxicity Test Variability in Evaluating Test Results (2 yr, \$300K)
- 00-HHE-5:** Assessment of Municipal and Industrial Odor Sources and Control Technologies from Collection Systems through Final Use (2 yr, \$200K)
- 00-HHE-6:** Disinfection of CSOs and SSOs (High Flow and High Organic Load): Risk Benefit Analysis (3 yr, \$300K)
- 00-PUM-1:** Water Reuse Symposium on Public Perception and Participation (1 yr, \$100K)
- 00-PUM-5:** Literature Review, Case Studies, and Survey Public Perception of Biosolids Recycling (2 yr, \$150K)
- 00-PUM-6:** Assessment of Bioassay Procedures for Biosolids (2 yr, \$250K)
- 00-PUM-7:** Development of a Cost Determination Protocol for Use in Benchmarking Biosolids Management Programs (1 yr, \$100K)
- 00-WSM-4:** Effects of Wet Weather Discharges on the Physical Character of Aquatic Habitat (1 yr, \$100K)

See Werf web page for more RFP's.



**SANITARY SEWER OVERFLOWS:  
Regulations, Evaluation, and Control**

FRIDAY, NOVEMBER 19, 1999  
ROYAL LAHAINA HOTEL  
LAHAINA, MAUI, HAWAII

Thursday - November 18th  
5:00 - 7:30 pm Welcome Reception

Friday - November 19th

**Opening Comments:**

*James Apana-Mayor of Maui & Tim Steinberger-C&C Honolulu*

**The National Perspective – Regulations**

*Speaker: USEPA unconfirmed - EPA Washington DC*

**The National Perspective - Regulated Community**

*Buddy Morgan, Montgomery Waterworks, Montgomery AL*

**The Regional Perspective – Regulations**

*Chris Sproul-EPA Region IX & Denis Lau-DOH Clean Water Branch*

**The Local Perspective - Honolulu**

*Cheryl Okuma-Sepe - C&C Honolulu*

**The Local Perspective - Maui**

*Ron Riska-Maui County*

**Wet Weather SSO Approaches**

*Jon Nishimura-Fukunaga & Assoc.*

**Dry Weather SSO Approaches**

*Tim Steinberger-C&C Honolulu*

**Interactive Panel Discussion with all Attendees**

*Representatives from each County, DOH, and USEPA*

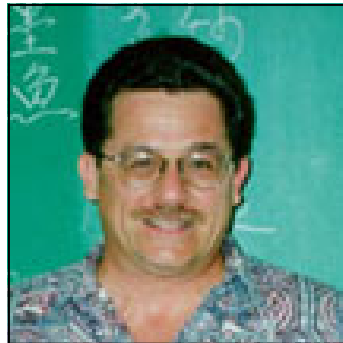
*Co-sponsored by ASCE and HWEA*

## WATER REUSE COMMITTEE

**Eassie Miller, Committee Co-Chair**  
Ph. 1-808-523-8499, Fax 1-808-533-0226  
**Victor Moreland, Committee Co-Chair**  
Ph. 1-808-836-6919, Fax 1-808-833-2068

## COMMITTEE PREPARES FOR NEXT REUSE CONFERENCE

Aloha! The water reuse committee is preparing for its third Water Reuse Specialty Conference in September 2000. Mr. Robert Miyasaki of the City and County of Honolulu Department of Planning and Permitting has accepted the honor of leading this effort.



*Eassie Miller*

West Hawaii is the planned location for the conference. HWEA will be co-sponsoring this conference with other professional organizations and government agencies. Please contact Robert Miyasaki at 527-5159 with your ideas and volunteering to serve on the planning committee.



*Vic Moreland*

In addition to planning for our local conference, we are joining resources with the Hawaii Section of American Water Works Association (AWWA) to promote Hawaii for the AWWA/WEF Water Reuse 2002 Specialty Conference.

We are in the running with Las Vegas, Phoenix, Tucson, Orange County (CA), and San Francisco. With the support of our membership, we believe

Hawaii can land this conference. Mr. Elson Gushiken is assisting the committee in pursuing this effort with AWWA on the national level.

The committee remains ready to serve as we await the release of the next draft to Hawaii Administrative Rules (HAR) Chapter 62. The Department of Health (DoH) is currently in the process of incorporating parts of the 1993 Water Reuse Guidelines into Chapter 62.

### SERVICES AND PRODUCTS TO ENHANCE THE MANAGEMENT OF WASTEWATER COLLECTION AND WATER DISTRIBUTION SYSTEMS

The world leader in conducting collection and distribution system programs to build physical asset inventories, assess infrastructure condition, locate specific defects and leaks, and execute the repairs needed to achieve optimum system performance.

*Specific Services Include:*

- Long-term and temporary flow monitoring
- Sewer system evaluation surveys
- Repair and rehabilitation
- Leakage and accountability programs
- Water meter testing and calibration
- Comprehensive infrastructure management software

*For more information contact:*

*Jeff Berk*  
7350 Opportunity Road  
San Diego, CA 92111  
Phone: (619) 571-0945  
E-mail: [jeff.berk@adserv.com](mailto:jeff.berk@adserv.com)

**ADS**  
ENVIRONMENTAL SERVICES



## PUBLIC EDUCATION COMMITTEE

**David Nagamine, Committee Co-Chair**  
**Ph. 1-808-527-5368, Fax 1-808-527-6214**

The Public Education Committee continues to move forward on the Hawaii Water Reclamation Public Education Outreach Project known as the Reuse Video project.



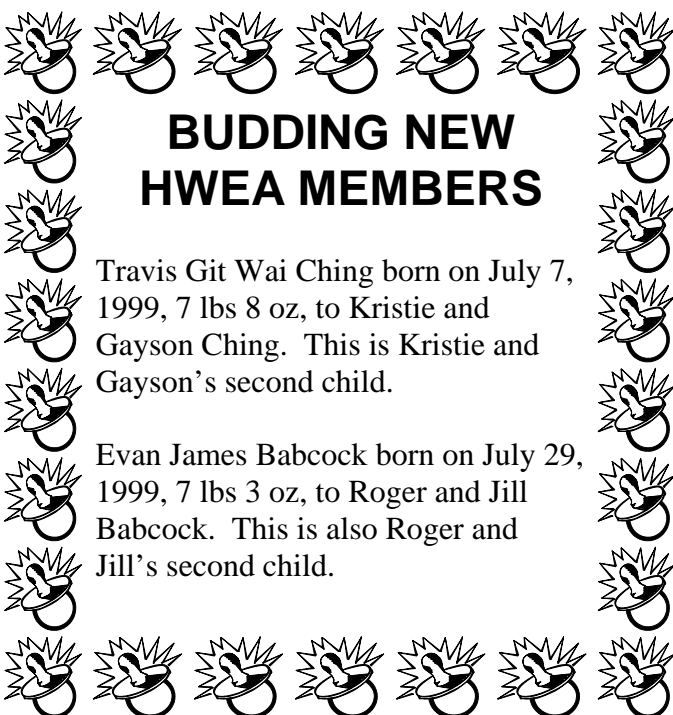
*David Nagamine*

About 75 copies of the video entitled "Water Recycling in Hawaii" along with brochures have been given to government agencies, community groups, the DOE and speakers in our Speakers' Bureau. Four presentations have been made since the video was completed in February 1999 and the video is now being shown on Oahu Public TV (OLELO) and Maui Public TV. Our goal is to do 1-2 presentations per month at least for the next two years.

For those of you who haven't seen the video, here is some information on it.

- Title: "Water Recycling in Hawaii"
- Running time: 17 minutes 02 seconds
- Produced by: Lindsey Haskin of CineGroup
- Funded by: EPA/DOH Grant
- Targeted audience: 7th grade and up
- Video consists of all local scenes and people on Maui, Molokai and Oahu
- Topics discussed: Water cycle, wastewater treatment, reuse projects and DOH Reuse Guidelines
- Narration by: Dawn Gohara
- Interviews with: Bruce Anderson (DOH), Roy Hardy (DLNR Water Commission), Bob Clothier (DeKalb Genetic) and Vince Bagoyo (Lanai Company)
- Background music by: George Kuo and Kau Crater Boys


If you would like to borrow the video or would like to help out by making a presentation, please call David Nagamine at 527-5368 or Steve Parabolicoli at 270-7426.



### BUDDING NEW HWEA MEMBERS

Travis Git Wai Ching born on July 7, 1999, 7 lbs 8 oz, to Kristie and Gayson Ching. This is Kristie and Gayson's second child.

Evan James Babcock born on July 29, 1999, 7 lbs 3 oz, to Roger and Jill Babcock. This is also Roger and Jill's second child.



### MARRIED:

Tina Unebasami and Cass Nakasone on August 21, 1999 at the Sheraton Waikiki Hotel.

This is the start of the social events column for the Lualine. HWEA members are encouraged to send in any news and photos regarding marriages, births, promotions, and other newsworthy facts about themselves or other HWEA members. Please send the information to:

HWEA Newsletter Committee  
 P.O. Box 2422  
 Honolulu, HI 96804

or e-mail: [tnakasone@hawaiiipacificengineers.com](mailto:tnakasone@hawaiiipacificengineers.com)

## SAFETY COMMITTEE

Daniel Peters, Committee Chair

Ph. 1-808-847-8327, Fax 1-808-848-6532

**A**loha Nui  
Loa! We  
pray that  
this greeting  
finds all working and  
living in a safe,  
productive fashion. As  
for those who have  
s u p e r v i s o r y  
r e s p o n s i b i l i t y,  
protecting your team  
members is as much  
important as controlling process parameters.  
Treatment plant employees face hazards on their  
jobs every day. They are exposed to flammable or  
explosive chemicals, surrounded by dangerous  
equipment, and undertake physically demanding  
work. This article will highlight the 5 most  
common hazards which we all should strive to  
know, and insure that efforts are made to minimize  
injury for all who work in the Wastewater Ohana.



Dan Peters

### 1. Falls

The number one accident in our industry. We need to double check all fixed ladders, scaffolding and mechanized lifts, that they are in good working order. We must provide engineering controls for those situations where temporary means to gain access are used. We must keep all access ways clear, well lighted, clutter-free and slip resistant. Any work over 6 feet requires fall-protection measures which should be inspected for each use as per manufacturer recommendations. 29 CFR 1910.22 - 27 contains guidance for ladder, walking surface, and stairwell maintenance and inspection.

### 2. Confined Space Hazards

An extremely deadly hazard which is known to claim lives of those who do not follow all steps of entry permit. We should insure all team members understand physical and chemical hazards of entering and working in a confined space, familiar with atmosphere testing, procedures to use if an

unsafe condition exists, and use and maintenance of personal protective equipment. 29 CFR 1910.146 provides extensive details regarding this danger.

### 3. Spills

Chemicals are ever present with our industry. We must insure that those chemicals which pose danger to our team members as designated by their labels and MSDS are dealt with correctly. All routine activities such as refilling, movement, taking delivery, and removal of near empty containers must be reviewed for proper handling procedures. As required in 29 CFR 1910.38 facilities must have a written, emergency action spill response procedures and all team members can identify the spill, notify appropriate agencies, and evacuate. Use of personal protective equipment as designated by chemical label or MSDS must be strictly enforced.

### 4. Noise

Can you hear that? That is your grandson calling you because he just got bit by the centipede in the garden. But can you hear him, no cannot, since those years of being exposed to loud equipment, sirens, air release from compressors have taken their toll. Any noise over 85 dBA as stated in 29 CFR 1910.95, requires either some form of noise abatement system (engineer control) or use of hearing protection by the team member. We all need review all facilities and insure those areas which may have loud noises associated with the process, that hearing protection warning signs are posted and all team members utilize approved hearing protection.

### 5. Energy Related Accidents

To those in the field, Lockout-Tagout procedures are a required step in all maintenance activities. There have been numerous accident/fatalities which can be attributed to a poorly managed Lockout-Tagout program. We must insure that those facilities which rely on computer managed control systems, have procedures in place to insure that equipment can be taken off-line while servicing activities occur. We need to insure that the gravity flow of a vessel's liquid contents is always considered during this activity. 29 CFR 1910.47

(Continued on page 25)

## LABORATORY COMMITTEE

**Barney Asato, Committee Chair**  
**Ph. 1-808-847-8356, Fax 1-808-842-1301**  
**Anita Fernandez, Vice Chair**  
**Ph. 1-808-879-6109, Fax 1-808-879-6369**

### VOLUNTARY INTER-LABORATORY SPLIT SAMPLE PROGRAM

The split sample program was started in July 1998 by the HWEA Laboratory Committee to allow environmental microbiology labs in Hawaii to gauge their analytical performance against all other labs participating in the program. Government regulators administer similar programs for chemical constituents, but no such program was available for microbiological constituents.



*Barney Asato*

In the first round of testing, five (5) laboratories from government and private sectors participated. A single wastewater sample was carefully split or aliquoted into smaller representative portions and sent to participating labs for analysis for enterococcus, fecal coliform and *Clostridium perfringens*. All results were summarized and coded to protect the identity of participating labs.

The results of the first round revealed a fairly wide discrepancy between labs. The fecal coliform counts ranged from 1,400,000 to 21,000,000 colony forming units per 100 mL (CFU/100mL) and *C. perfringens* from 1,500 to 42,000 CFU/100 mL. Enterococcus was reported at 250,000 to 460,000 CFU/100 mL. The wide range of data suggested that fecal coliform and *C. perfringens* were not within acceptable method tolerances and labs were asked to review their internal quality control procedures. Analysts from various participating labs took this opportunity to seek outside help and observe analytical procedures at other labs.

The second round of testing was conducted in September 1998 with six participating labs and the reported agreement between labs improved. Not including the results of one lab which continued to report low recoveries, the fecal coliform counts ranged from 12,000,000 to 14,000,000 CFU/100mL, *C. perfringens* from 24,000 to 39,000 CFU/100 mL, and enterococcus was reported at 280,000 to 550,000 CFU/100 mL.

The third and fourth rounds of sample splits trended toward a gradual improvement in reported data with the number of environmental laboratories participating in the program growing to eight including labs operating on Kauai, Maui and Oahu.

Our next round of testing is scheduled for October 1999. There is no cost involved other than sample transport costs. If you are interested in participating or would like more information, call me at (808) 847-8356 or fax (808) 842-1301.

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## SAFETY COMMITTEE

*(Continued from page 24)*

addresses requirements that employees who service or maintain equipment.

As I conclude my thoughts, our life is precious. We have families and friends who depend on us for guidance, understanding and love. It is our challenge to protect each other, as well as yourself from the dangers stated above. Together we survive, until next time. Think Safety

## HWEA/WEF CALENDAR OF EVENTS

EVENT	DATE
HWEA Quarterly Luncheon	August 1999
PWOD Annual Golf Tournament (Kauai, HI)	August 29, 1999
Summer <i>Lua Line</i>	September 1999
72st Annual WEFTEC Conference (New Orleans, LA)	October 9-13, 1999
PWOD Softball Tournament (Hilo, HI)	November 13, 1999
Animal Residuals Management Conference (Crystal City, VA)	November 14-16, 1999
Sanitary Sewer Overflow (SSO) Workshop (Maui, HI)	November 1999
Winter <i>Lua Line</i>	January 2000
Biosolids 2000: Residuals and Biosolids Management (Boston, MA)	February 27 - March 1, 2000
2nd Annual WEFTEC Asia (Singapore)	March 13-16, 2000
Water 2000: Guarding the Global Resource (Auckland, New Zealand)	March 19-23, 2000
2000 HWEA Pre-Conference	March 2000
2000 HWEA Conference	March 2000
Disinfection 2000: Disinfection of Wastes in the New Millenium	March 15-18, 2000
Odors and VOC Emissions 2000 (Cincinnati, OH)	April 16-19, 2000
Spring <i>Lua Line</i>	May 2000
Urban Wet Weather Pollution Control (Rochester, NY)	May 7-10, 2000
Industrial Wastes Technical Conference (St. Louis, MO)	May 21-24, 2000
Watershed 2000 (Vancouver, British Columbia, Canada)	July 9-12, 2000
HWEA Quarterly Luncheon	August 2000
HWEA Water Reuse Conference (Hilo, HI)	September 2000
Summer <i>Lua Line</i>	September 2000

## HWEA SPECIALTY COMMITTEE ROSTERS

COMMITTEE	MEMBERS	
<b>Conference</b>	Kevin Nakamura (Co-Chair)	Audrey Uyema Pak (Co-Chair)
	Tom Myers	Cindy Masuoka
	Mike Nishimura	Craig Chung
	Anna Lee	Wade Thode
	Leland Lee	David Yamada
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<b>Government Affairs</b>	Robin Matsunaga (Chair)	Walter Billingsley (Vice-Chair)
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<b>Laboratory</b>	Barney Asato (Chair)	Anita Fernandez (Vice-Chair)
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	Snookie Mello	Wendy Manor
	Kevin Nishimura	Robert Rychlinski
	Myron Honda	Lourdes Vasquez
	Terrence Tanaka	Bruce Zhang
<b>Membership</b>	Kevin Nakamura (Chair)	Jay Nakandakare (Vice-Chair)
<b>Newsletter</b>	Tina Unebasami (Chair)	Greg Chung (Vice-Chair)
	Kristie Ching	Leanne Watanabe
	Suzette Hokama	Jay Stone
<b>Nominations</b>	Leighton Lum (Chair)	
<b>Public Education</b>	David Nagamine (Co-Chair)	Vacant (Co-Chair)
	Roy Abe	Steve Parabolicoli
	Ann Tsuhako	Eddie Eldeen
	Lance Tokuda	Robert Miyasaki
	Grace Tuang Moss	Joe Padron
<b>Research</b>	Roger Babcock, Jr. (Interim Chair)	P.Y Yang
	Roger Fujioka	Dennis Tulang
	Denis Lau	Ross Tanimoto
	Tim Steinberger	Ken Tanno
	Lee Mansfield	Robin Matsunaga
	Ray Matasci	
<b>Safety</b>	Dan Peters (Chair)	
<b>Student Activities</b>	Ivan Nakatsuka (Chair)	
<b>Water Reuse</b>	Eassie Miller (Co-Chair)	Victor Moreland (Co-Chair)
	Kenneth Ishizaki	Ray Matasci
	Robert Miyasaki	Peter Ono
	Elson Gushigen	

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**1999-2000 HWEA BOARD OF DIRECTORS AND SPECIALTY COMMITTEE**

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**Lori Kajiwara, President\***

State of Hawaii, Department of Health  
Wastewater Branch  
919 Ala Moana Boulevard Room 309  
Honolulu, Hawaii 96814  
Phone: 1-808-586-4294, Fax: 1-808-586-4300  
E-mail: lkajiwara@eha.health.state.hi.us

**Lance Manabe, Vice-President\***

Department of Wastewater Management  
City & County of Honolulu, 14th Floor  
650 South King Street  
Honolulu, Hawaii 96813  
Phone: 1-808-523-4551, Fax: 1-808-523-4642  
E-mail: lmanabe@co.honolulu.hi.us

**Steve Parabolici, Secretary-Treasurer\***

County of Maui, Wastewater Reclamation Division  
200 South High Street  
Wailuku, Hawaii 96793  
Phone: 1-808-243-7426, Fax: 1-808-243-7425  
E-mail: comwwrd@shaka.com

**Leighton Lum, Past-President & Nominating-Chair\***

R.M. Towill Corporation  
420 Waiakamilo Road, Suite 411  
Honolulu, Hawaii 96817-4941  
Phone: 1-808-842-1133, Fax: 1-808-842-1937  
E-mail: llum@i-one.com

**Victor Moreland, National Director\***

1378 Mahiole Street  
Honolulu, Hawaii 96819  
Phone: 1-808-836-6919, Fax: 1-808-833-2068  
E-mail: vmorelan@hawaii.edu

**Grant Moriwaki, PWOD Representative\***

Department of Wastewater Management  
City & County of Honolulu, Honouliuli WWTP  
91-1501 Geiger Road  
Ewa Beach, Hawaii 96706  
Phone: 1-808-681-3138 Fax: 1-808-681-5459

**James Honke, WEF Executive Committee**

Department of Wastewater Management  
City & County of Honolulu, 14th Floor  
650 South King Street  
Honolulu, Hawaii 96813  
Phone: 1-808-527-5040 Fax: 1-808-523-4642

**Allen Perry, WEF PWOD Regional Director**

Department of Wastewater Management  
City & County of Honolulu, Honouliuli WWTP  
91-1501 Geiger Road

Ewa Beach, Hawaii 96706

Phone: 1-808-681-3138, Fax: 1-808-681-5459

**Kevin Nakamura, Conference Co-Chair**

Department of Wastewater Management  
City & County of Honolulu, Sand Island WWTP  
1350 Sand Island Parkway  
Honolulu, Hawaii 96819

Phone: 1-808-847-8374, Fax: 1-808-848-6532

E-mail: MDA0094@co.honolulu.hi.us

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Department of Wastewater Management

City & County of Honolulu, Sand Island WWTP

1350 Sand Island Parkway

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E-mail: MDA0094@co.honolulu.hi.us

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