

LU A LINE



A Publication of the Hawaii Water Environment Association

Volume 13 Number 3

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

Winter 2000

PRESIDENT'S MESSAGE

By Lance Manabe, 2000-2001 HWEA President

Christmas & New Years' has come and gone in the blink of an eye! The Executive Committee of the Hawaii Water Environment Association would like to take this opportunity to wish all our fellow members a happy and prosperous New Year! I hope you all have had a great holiday season and plenty to eat. I know I have, maybe to much! This past year has just flew by and before you know it we are in 2001!



Lance Manabe

Much has been accomplished this past year through the conscientious efforts of the Specialty Committee members. HWEA, through the Water Reuse Committee put on a great Water Reuse Conference on the Big Island at the Aston Keahou Resort. Special thanks to the chair of the conference Robert Miyasaki for the great effort in coordinating the conference and seeing it through various hurdles like possible flooding in the area due to a storm, power outages, equipment unavailability, etc. The conference went off without a hitch and was a great success.

You may have noticed the latest and greatest HWEA Website at (www.hwea.org), if you haven't you are missing out. Thanks to the continuous creative efforts of Russell "Turd Master" Okita the HWEA Website continues to be updated and expanded regularly with subjects ranging from annual conference information to HWEA promotional items. The website continues to grow and if you have any comments or suggestions please feel free to

call Russell at 944-1821.

HWEA was well represented at the Water Environment Federation (WEF) Annual Conference in Anaheim, California. The conference sessions were informative and diverse and the conference exhibits were massive and awesome as usual. Fun was had by all during the WEF Disneyland Night with rides like Splash Mountain, and Space Mountain which I rode at least

six times! It was great to get back in contact with those individuals from other Association that I've met in the past and share about how things are going in our Association.

During the Member Association meetings we were able to voice concerns from the member associations, like ourselves, about concerns we have. For example, concern that WEF communication be more free flowing with us so that we don't get taken by surprised in things like hosting the WEF regional meeting in Hawaii. The concerns were heard by the WEF Member Association Staff and will be brought to the attention of WEF.

There is still a lot more to come this year with the Annual HWEA Conference at the Neal Blaisdell Center from March 19-21, 2001. We have many exciting speakers, exhibits and social events to choose from. Under the direction of the Conference Co-Chairs Greg Chung and Leanne Watanabe the conference promises to be a success. If you would like more information about the

(Continued on page 2)

PRESIDENT'S MESSAGE

(Continued from page 1)

conference and getting involved please call either Greg at 488-0477 or Leanne at 586-4142 for more information. In this newsletter there is also more information on the conference, read further inside to find out the details.

If any of you out there seek more information concerning one of the Specialty Committees, please give a call to the respective committee chairs, co-chairs, or members and they can fill you in (see Specialty Committee roster inside). I would encourage those of you who are not currently involved with a Specialty Committee to get involved, your involvement makes HWEA what it is!

Secretary-Treasurer's Report

as of November 30, 2000

Bank of Hawaii Accounts

| | |
|---------------------|------------|
| Member Associations | \$7,160.23 |
|---------------------|------------|

Merrill Lynch Accounts

| | |
|---------------------|-------------|
| Member Associations | \$10,915.43 |
|---------------------|-------------|

| | |
|------------|-------------|
| Conference | \$45,780.93 |
|------------|-------------|

| | |
|-------------------|---------|
| <i>Petty Cash</i> | \$96.50 |
|-------------------|---------|

| | |
|--------------|--------------------|
| TOTAL | \$63,953.09 |
|--------------|--------------------|

HWEA/WEF CALENDAR OF EVENTS

| EVENT | DATE |
|---|-----------------------|
| HWEA Winter Lua Line | January 2001 |
| AWWA/WEF Joint Management Conference (Portland, Oregon) | February 4-7, 2001 |
| WEF/AWWA/California WEA Joint Residuals and Biosolids Management Conference (San Diego, California) | February 21-24, 2001 |
| 23rd Annual HWEA Conference and Pre-Conference Registration Deadline | March 2, 2001 |
| WEF Total Maximum Daily Load (TMDL) Science Issues Conference (St. Louis, Missouri) | March 4-7, 2001 |
| 23rd Annual HWEA Pre-Conference (Honolulu, Hawaii) | March 19, 2001 |
| 23rd Annual HWEA Conference (Honolulu, Hawaii) | March 20-21, 2001 |
| Pretreatment Training Conference (Lahaina, Maui) | April 9-12, 2001 |
| HWEA Spring Lua Line | May 2001 |
| WEF 2001 A Collection Systems Odyssey (Bellevue, Washington) | July 8-11, 2001 |
| Watershed 2001 (Tokyo, Japan) | July 26-27, 2001 |
| WEF/Purdue University/South Carolina WEA 7th Annual Industrial Waste Technical and Regulatory Conference (Charleston, South Carolina) | August 12-15, 2001 |
| HWEA Summer Lua Line | September 2001 |
| WEF Plant Operations Annual Conference (Cincinnati, Ohio) | September 16-18, 2001 |
| WEFTEC 2001 (Atlanta, Georgia) | October 13-17, 2001 |

GOVERNMENT AFFAIRS COMMITTEE

Robin Matsunaga, Committee Chair
Ph. 1-808-521-5361, Fax 1-808-538-7819
Walter Billingsley, Committee Vice-Chair
Ph. 1-808-521-5361, Fax 1-808-538-7819

The Government Affairs Committee (GAC) looks forward to working with the water and environmental-related committees of the State Legislature, which recently opened session on January 17, 2001. Given the broad-based membership that we have of professional treatment plant operators, technicians, scientists, and engineers, we hope that we will be able to offer our professional expertise to the rule-makers so our laws are based on the best information available.

The Executive Board has decided to endorse draft legislation proposed by the Department of Health that would clarify its authority to enact rules that would require large users of landscape irrigation water to use reclaimed water, if available. This is



Robin Matsunaga

modeled after the County of Maui ordinances that are already in effect. GAC would be working with the legislative committee staff to offer support for this bill as required.


A consultant that has been hired by the various professional societies will help the HWEA monitor the passage of bills through the multitude of committees. We will be working with our consultant and the legislative committee staff to keep abreast of any proposed legislation that develops from other parts of the community. As always, our committee is interested in what issues are of concern to our fellow HWEA members. If any of you have any questions or suggestions, please contact me or co-chair Walter Billingsley at 521-5361.

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 Honolulu Hawaii 96817-4941


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Sand Island WWTP Expansion
Island of Oahu - 2005



Kukuila WWTP
Island of Kauai - 1993



Kuakini Highway Interceptor Sewer
Island of Hawaii - 1989

PUBLIC EDUCATION COMMITTEE

Tim Steinberger, Co-Chair

Ph. 1-808-527-5388, Fax 1-808-523-4642

Roy Abe, Co-Chair

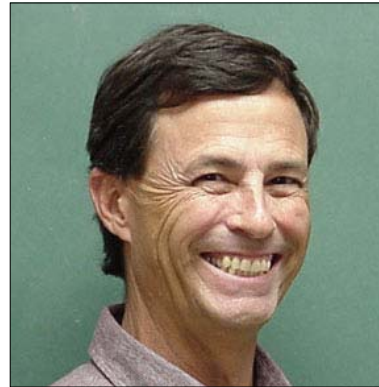
Ph. 1-808-524-3771, Fax 1-808-538-0445

As many of you already know, our committee chair, Tim Steinberger, was recently appointed the C&C of Honolulu Department of Environmental Services' Deputy Director. Congratulations, Tim!! (Gee, will Ken Ishizaki now stop giving Tim a hard time?...Nah, I don't think so.) Since Tim is busy scrambling around in getting up to speed in his new position, I have the pleasure of providing you with this update of the Public Education Committee.

Following the success of the reclaimed water video project, HWEA has received tentative approval for a new \$30,000 EPA/DOH grant for another public education project. Additional funds (\$40,000+) are expected from the C&C of Honolulu, various charitable foundations, and possibly other wastewater entities. As mentioned in the previous Lua Line, the funds are targeted for production and airing of a series of public service announcements to educate the public on reducing undesirable and illicit discharges to sewers (rainwater, grease, rags, toxic substances, cans, toys, etc.). The project will also include the production of a brochure that can be distributed at presentations by HWEA members and other in the pollution control field. This project is being pursued jointly with the Collections Systems Committee.

This project is an important one for many of you in the wastewater field. Both wet and dry weather

wastewater spills have been a big headache for the various wastewater entities throughout the state. Excess wet-weather inflow can result in spills when the sewers are partially clogged or have limited capacity. High wet-weather flows also degrade treatment plant performance. What makes matters worst is that these wet-weather problems occur when the receiving waters are already stressed from sediment



Tim Steinberger

and organic matter in the stormwater runoff. Studies indicate that 50 percent of the wet-weather infiltration/inflow can typically be generated by the user's private sewer connection. Educating the public on such areas as eliminating raingutter and outdoor drain

connections to the sewer, and keeping cleanout covers in place can be an effective means of reducing inflow problems.

Sewer maintenance personnel spend an enormous amount of effort in cleaning sewers to minimize the occurrence of spills. The public needs to be educated that sewers are easily clogged by grease and are not meant to be wastebaskets. This simple message could go a long way in reducing maintenance costs and spills. Reducing discharge of toxic materials to sewers will benefit treatment plant performance, reclaimed water and biosolids quality, and the water environment in general. Beach closures and bad publicity generated by sewage spills can have adverse impacts on our tourist industry and economy.

DOH has requested that the educational brochures be produced in Chinese, Korean, Filipino, and Japanese versions. We would like to use HWEA volunteers, if possible, to perform the translation and word processing. Please contact any of the Public Education or Collection System Committee members if you can assist us. Also contact us if you have any good ideas for the script, know of any

(Continued on page 14)



Roy Abe

PRETREATMENT COMMITTEE

Dwight Nakao, Committee Chair
Ph. 1-808-270-7988, Fax 1-808-270-7425
Ken Kawahara, Committee Vice-Chair
Ph. 1-808-527-5377, Fax 1-808-527-6214

Happy New Year! 2001 is upon us and the Pretreatment Committee is hard at work planning events for all you exciting people. Even before 2001 rolled-in, the Committee was already actively preparing for training workshops and other pretreatment related activities. With that said, the Committee is excited to announce the upcoming April 9-12, 2001, Pretreatment Training Conference.

The Conference will be held on Maui at the Royal Lahaina Resort. USEPA in coordination with WEF will provide three days of a Comprehensive Pretreatment Course and a day on POTW Control of Oil and Grease Course. All Attendees will receive a



Dwight Nakao

certificate and be able to earn CEU credits.

If you missed the first pretreatment training courses held on Oahu last year, well now's your chance to attend. The committee is planning on making this another successful conference which will

include exhibitors, ample time for networking and great door prizes. Start planning and we look forward to seeing you there.

The Committee is also planning to put on Financial Assistance Workshops for restaurants that must comply with grease interceptor installations, so be on the lookout for these announcements. If anyone has any questions about any of the activities mentioned or just have a comment, please contact us or visit us at HWEA's web site, www.hwea.org. Aloha.

ADS CORPORATION AD

JACEP AD

Full page ad

CONFERENCE COMMITTEE

Leanne Watanabe, Conference Co-Chair
Ph. 1-808-586-4142, Fax 1-808-586-4352
Greg Chung, Conference Co-Chair
Ph. 1-808-488-0477, Fax 1-808-488-3776

Happy New Year! The 2001 HWEA Conference “Malama i ka mua o na wai o Hawai’i,” is rapidly approaching. The conference will be held on March 20 and 21, and the Pre-Conference will be held on March 19.



Leanne Watanabe

In addition to the interesting and informative technical topics and exhibits, the conference will provide excellent opportunities for socializing and networking with fellow wastewater professionals at the annual President’s Reception at the Waikiki Yacht Club and at the conference banquet at the Waikiki Beach Marriott Resort.



Greg Chung

You should have received your registration packets already, so don’t hesitate to register so that you can take advantage of the early bird rates! The Early Bird deadline is February 2, 2001.

If you have any questions or comments, or if you would like to volunteer to help with the conference, please feel free to call any one of the Conference Committee members.

CONFERENCE COMMITTEE CO-CHAIRS:

Greg Chung
 Phone: 488-0477 Fax: 488-3776

Leanne Watanabe
 Phone: 586-4142 Fax: 586-4352

TECHNICAL PROGRAM COMMITTEE CO-CHAIRS:

Jay Hamai
 Phone: 527-5003 Fax: 523-4642

Sheryl Nojima
 Phone: 737-1875 Fax: 734-5516

SOCIAL EVENTS COMMITTEE CO-CHAIRS:

Lynn Katahara
 Phone: 944-1821 Fax: 946-9339

Paul Arita
 Phone: 533-3646 Fax: 526-1267

EXHIBITS COMMITTEE CO-CHAIRS:

Jason Lau
 Phone: 596-7790 Fax: 596-7361

John Katahira
 Phone: 596-7790 Fax: 596-7361

OPERATIONS CHALLENGE COMMITTEE CHAIR:

Kevin Nakamura
 Phone: 847-8374 Fax: 848-6532

REGISTRATION COMMITTEE

CHAIRPERSON:
 Ayako Kawabata
 Phone: 522-7427 Fax: 538-0445

CONTRIBUTIONS COMMITTEE

CHAIRPERSON:
 Ken Ishizaki
 Phone: 591-8820 Fax: 591-9010

PUBLICATIONS COMMITTEE

CHAIRPERSON:
 Debra Ikeno
 Phone: 591-8820 Fax: 591-9010

Reflections on WEFTEC 2000...

By Leanne Watanabe

Have you ever felt like you were one of the very few individuals whose career revolved around what goes down the toilet? Ever felt like you were the only engineering nerd at a family party? Have you ever wondered if there was anyone else who was interested in talking story about topics such as U.V. disinfection, phosphorus removal, biosolid applications, or floc aggregation at the dinner table? Well, there's good news for you! At WEFTEC 2000, we witnessed the most massive gathering of other individuals whose career involved or was related to wastewater and water quality. Engineers, operators, and vendors from around the country and from around the globe came out of the woodworks to attend the annual conference which was held in Anaheim, California on October 14-18, 2000.

WEFTEC 2000 featured nearly 80 technical sessions which were scheduled over a span of just two and a half days. The technical program was comprised of a diverse range of topics that included water reuse, nutrient removal, collection systems design, laboratory techniques, facilities operations and maintenance, regulations and enforcement, and computer systems. It took nearly an entire night to review speaker abstracts and plan out which sessions to attend because there were so many options.

One of the most amazing things about WEFTEC was the Exposition Hall. It was almost overwhelming as you first stepped foot into the humon-

gous hall where nearly 800 exhibit booths, that featured wastewater and water quality products/services, spanned over an area of about 200,000 square feet! Vendors got creative and thought of every way to draw people to their booths such as passing out cool souvenirs, holding drawings for digital cameras or palm pilots, and having captivating displays. Some of these displays included massive pumps, huge grease balls, muffin monsters eating old sneakers, and even a live mermaid in a bikini (don't ask me what the mermaid had to do with wastewater products!).

At the WEFTEC 2000 Operations Challenge, HWEA was proud to be represented by the Kauai Nitrifiers, winners of the 22nd Annual HWEA Operations Challenge. The national competition consisted of five events: process control, safety, main-

tenance, laboratory and collection systems. The collection systems competition was one of the more action-packed events as operators rushed against the clock to repair a section of an active 8-inch PVC pipe flowing under gravity. You wouldn't believe how fast an 8-inch PVC pipe could be sawcut (by hand) until you've observed this event!

Much Mahalo to Harry Funamura, Guy Moriguchi, Matthew Lewis and "Bubba" Kiger for your time and effort, and participation!

Of course, WEFTEC wasn't only about sessions, exhibits and the operations challenge, but part of

(Continued on page 19)



Kauai Nitrifiers doing HWEA proud

Water Reuse Conference Recap

By Anna Lee

The Third Bi-Annual Water Reuse Specialty Conference was held on November 2 - 3, 2000 at the Aston Keauhou Beach Hotel on the island of Hawaii. Although heavy rains drenched the island, this did not put a damper on the conference due to the efforts of the Reuse Specialty Committee and the conference coordinator, Robert Miyasaki. The storm caused the closure of roads and power outages throughout most of the island. This made getting speakers and equipment to the conference a more difficult task. Regardless, the Reuse Specialty Committee was able to overcome these obstacles to put on a stellar conference.

The conference was a joint venture with ASCE, AWWA and HWEA. The event attracted 116 registered attendees ranging from design engineers, State and County regulatory officials, and developers and landowners. The attendees were treated to two days filled with technical presentations from leading professionals in the field.

The topics presented reflected the theme of the conference — “Completing the Cycle.” Technical sessions on the first day of the conference was comprised of national and international issues. Dr. Takashi Asano, the first presenter of the day, provided another viable option for water reuse. Where most applications of reclaimed water are associated with agricultural and landscape usage, Dr. Asano described Japan’s efforts to incorporate reclaimed water in urban activities such as toilet flushing and instream flow augmentation.

The predominate application for reclaimed water for the islands is for golf course irrigation. Michael Huck, an agronomist with the USGA Green Section, provided a technical session regarding the agronomic considerations of the application of reuse water on

golf course irrigation. Issues such as excess soluble salts in the soil and nutrient loading on golf courses were discussed in detail in addition to the regulatory requirements and budgetary considerations when using reclaimed water for this type of application.

Two of the greatest obstacles for implementing a successful reuse program are the regulatory constraints and gaining public acceptance of the program. These issues were addressed with the following line-up of speakers. Rick Sakaji of the California Department of Health Services reported the National Water Research Institute’s efforts to develop strong set of disinfection guidelines and California’s Title 22 regarding water reuse. Berna Cabacungan and Patricia Tennyson from Katz & Associates are familiar with presenting unpopular ideas to the public. In their session, they shared their experiences and techniques to better educated the public on water reuse.



Dr. Takashi Asano, one of the many leading technical speakers on water reuse at the conference.

Day 2 of the conference brought the ideas of water reuse back home with the first presenter of the day, our own HWEA V.P. Steve Parabolicoli to discuss Maui County’s Reuse Program. Maui County is recognized as being a leader in water reuse in Hawaii. Therefore, valuable information from this session can be used to jump start reuse programs on the other islands.

Plans to implement a reuse program on Oahu similar to Maui County are on their way. Donna Kiyosaki of the Honolulu Board of Water Supply (BWS) presented the efforts of BWS to incorporate water reuse in their programming for Oahu.

Steven Spengler of URS Corporation followed with

(Continued on page 19)

HAWAII WATER ENVIRONMENT ASSOCIATION

23rd Annual Conference

Neal S. Blaisdell Center, Honolulu, Hawai'i

March 20 and 21, 2001

PRELIMINARY LIST OF SPEAKERS (as of 12/27/00)

| Company | Presenter(s) | Title |
|---|------------------------------------|---|
| Carollo Engineers | Paul J. Schuler | Get What You Want! Engineered Equipment Procurement Options to Ensure Project Quality |
| CH2M HILL | Bill Mori Jan Allen | Biofiltration Pilot Testing |
| CH2M HILL | Reggie Rowe Bill Mori | CMOM (Capacity, Management, and Operational and Maintenance) Requirements Under Proposed EPA Wet Weather Conveyance Regulations |
| CSR U-Liner | Wayne Long | Folded Pipe Trenchless Technology |
| Fukunaga & Associates | Jon Nishimura Wei Chen | Wastewater, Wastewater Everywhere; Not a Drop for Reuse |
| George H. Neil and Associates, Inc. | George H. Neil | Vacuum Sewage Collection - An Alternative for Texas Coastal Communities |
| GMP Associates, Inc. | Lee Mansfield | Upgrading the Historic Wahiawa WWTP to Improve Water Quality and Continue Reuse Into a Second Century |
| Hawaii-American Water Company | Dr. Steve Dollar Smith | Robert A Videographic Assay of the East Honolulu Wastewater Treatment Plant's Deep Ocean Outfall |
| Hawaii-American Water Company | Robert Smith | A Brief Chronology of the East Honolulu Wastewater Treatment Plant |
| Kennedy/Jenks Engineering Solutions, Inc. | Carl Schrader Dr. Westley Chun | Honouliuli Wastewater Treatment Plant Soil Bed Scrubber (Biofilter) Pilot Project |
| City and County of Honolulu | Allen Perry Jr. / Kristie Ching | |
| Tetra Tech MPS | James E. Scholl | Using the Michigan Voluntary General Permit to Comply with Phase II Storm Water Regulations |
| URS Corporation | Henry C. Hyde | Bilge & Oily Waste Collection & Processing Facilities |
| U.S. Filter / Davis Process | Vaughan Harshman | Wastewater Odor Control: An Evaluation of Technologies |
| U.S. Filter, Envirex Products | William H. Boyle | High Load Field Test of a Secondary Clarifier |
| Universiti Teknologi Malaysia | Mr. Johan Sohaili | Enhancement of Sewage Sedimentation with Magnetic Field |
| Water Resources Research Center | Roger Babcock | Experimental Evaluation of On-Site Treatment and Reuse of Domestic Wastewater |

Note: For the latest update on the 2001 HWEA Technical Program, please visit our website at: www.hwea.org

Full page ad

Full page ad

HWEA PRE-CONFERENCE WORKSHOP #1

UV 101: Theory, Principles, and Design Practices

Monday, March 19, 2001
8:30 A.M. – 4:00 P.M.

REGISTRATION FEE: \$50 (includes lunch)
Neal Blaisdell Center/Oahu Room

INSTRUCTORS

Victor Moreland, Ph.D., P.E.
Water Resources Research Center,
University of Hawaii
Peter Ono, P.E.
Brown and Caldwell

TOPICS

- ◆ Why are we disinfecting?
- ◆ Who are we trying to kill?
- ◆ What are we using to kill them?
- ◆ Where are we going to kill them?
- ◆ How are we going to kill them?

HWEA PRE-CONFERENCE WORKSHOP #2

Capacity, Management, Operation, and Maintenance (CMOM)

Monday, March 19, 2001
8:30 A.M. – 4:00 P.M.
REGISTRATION FEE: \$60 (includes lunch)
Neal Blaisdell Center/Maui Room

INSTRUCTOR

Gary Skipper, P.E.
MGD Technologies Inc.

TOPICS

- ◆ CMOM Reporting
- ◆ Asset Management Practices Wastewater Collection Systems
- ◆ Pipeline Preventive Maintenance Program
- ◆ Pipeline Inspection and Condition Assessment
- ◆ Innovative Inspection and Assessment Techniques

PWO NEWS

Kevin Nakamura, PWO Representative
Ph. 1-808-847-8374, Fax 1-808-848-6532

To all Wastewater Professionals - Happy New Year and a sincere wish that you and your families have a Safe, Healthy and Prosperous...New Millennium.

Anaheim, CA was the site for the 2000 WEFTEC Conference; wherein the Hawaii Water Environment Association's (HWEA) Operations Challenge Team, the Kauai Nitrifiers represented us well. The team members were: Guy Moriguchi, Matthew Louis, Clifford Kiger and Harry Muronaka. This years HWEA conference will again be the qualifying venue for a chance to represent the HWEA at the 2001 WEFTEC Operations Challenge, to be held in Atlanta, Georgia. There has been talk that the Kauai team doesn't have it any more and are ready to be dethroned after a four year run. Operations Challenge Team entry forms are included in this issue and should either be mailed or faxed to me by February 15, 2001.

I will also need nominations for the Operator Achievement awards for: WWTP Operator Grades I/II and III/IV as well as Maintenance and Laboratory personnel by the February 15, 2001 deadline.

Hawaii Pacific Engineer's Ad



Kevin Nakamura

So look among your fellow workers for people deserving of recognition and submit the nomination.

On a less positive note the 2000 Inter-Island Softball tournament was postponed due to work schedule and family commitments by the coordinators.

We will start planning this years tournament (to be held on Oahu - to fulfill our turn) early, to ensure the games will go on! So stay tuned for further information.

The plans to create a Professional Wastewater Operators (PWO) committee is still in progress. If anyone is interested in joining the committee, please let me know. People from each island will be contacted to ask for their assistance and support. This committee will have a hand in guiding our fellow operations and maintenance personnel to the forefront of the wastewater industry and to help meet the wastewater challenges of the future.

Thank you for all your support this past year and if you have any questions or concerns, please let me know.

PUBLIC EDUCATION COMMITTEE

(Continued from page 4)

celebrity-type person that might be a good spokesperson for this program, or would like to just help out.

In other Public Education Committee news, Kyle Yukumoto spent many hours tutoring Moanalua High School students for the TEAMS competition that was held in December. Moanalua's varsity team came in sixth out of 18 teams statewide! HWEA is a sponsor of the TEAMS competition, which tests high school students on realistic engineering problems (the problems are tough for even real engineers!). Good job, Kyle!!

HAWAII STATE OPERATIONS CHALLENGE 2001
Team Entry Application Form
(Deadline for Submittal: February 15, 2001)

REQUIREMENTS

1. Maximum of four (4) members per team.
2. Each participant must be either a Water Environment Federation “Active” or “PWO” member.
3. Optional Coach Designation - This person is allowed to replace any team member before the start of the competition in the event of an emergency.
4. Send or Fax entry forms to: Kevin Nakamura
c/o Sand Island WWTP
1350 Sand Island Parkway
Honolulu, HI 96819-4319
Fax: (808) 848-6532

NOTE: Rules will be sent to the Team Captains, allow 1-2 weeks for delivery.

Team Name: _____

Team Captain: _____

WEF / PWO Membership No. _____

Mailing address: _____

Team Member: _____

WEF / PWO Membership No. _____

Mailing address: _____

Team Member: _____

WEF / PWO Membership No. _____

Mailing address: _____

Team Member: _____

WEF / PWO Membership No. _____

Mailing address: _____

Coach: _____

WEF / PWO Membership No. _____

Mailing address: _____

MEMBERSHIP COMMITTEE

Alma Takahashi, Committee Chair
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 Membership Committee would like to welcome the following new HWEA members:

- | | |
|------------------------------------|---------------------------|
| Charles Blair | Sumon Kanpirom |
| Timothy Scheidt | Lisa Ishida Kimura |
| Jane Dewell | Henry Hyde |
| Darin Lum | G. Everett Spring |
| Erwin Kawata | Randall Shimoda |
| Michael Fuke | Mary Carozza |
| Mongkolaya Rungvetvuthitaya | |

MEMBERSHIP RECRUITMENT CONTEST
 (August 1, 2000 to July 31, 2001)

The 2000-2001 membership recruitment contest ends July 31, 2001. Prizes for the WEF recruitment contest are:

| <u>Prize</u> | <u>Level</u> |
|-----------------------------------|---------------|
| Business Card Holder | 2-9 members |
| Cell-Phone Calculator Alarm Clock | 10-19 members |
| Cell-Phone AM/FM Radio | 20-49 members |
| Cell-Phone Holder with Organizer | 50+ members |

Plus, each time you recruit a new member, your name will be entered in the Grand Prize Raffle to be held in August 2001:

- Grand prize \$1000 American Express Gift Certificate
- Second prize \$500 American Express Gift Certificate
- Third prize \$250 American Express Gift Certificate

To become a recruiter, tell prospective members about the value of WEF/HWEA membership (member discounts, networking opportunities,



Alma Takahashi

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

| HWEA MEMBERSHIP STATUS AS OF DECEMBER 2000 | |
|---|----------------|
| CATEGORY | MEMBERS |
| Active | 227 |
| Corporate - Private | 10 |
| Life | 5 |
| Operations Division | 137 |
| Retired | 2 |
| Student | 5 |
| TOTAL | 386 |

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 HWEA Collection System Committee includes members with a broad range of experience and interests related to wastewater collection systems. Among the areas of interest that the committee is involved in are collection system operations and maintenance, collection system planning and design, national and local regulatory policies and requirements, and new technologies for system construction and rehabilitation. In its effort to share information with HWEA's general membership, the committee will regularly publish articles in the Lua Line covering current topics of interest concerning collection systems.

The topic for this issue is the status of the *City & County of Honolulu's Wastewater Flow Model*, written by committee co-chairperson, Tina Ono of the Wastewater Design and Engineering Division, Department of Design and Construction, C&C of Honolulu.

CITY'S WASTEWATER FLOW MODEL

The City's Wastewater Design and Engineering Division is currently developing a system that will automate the calculation of flow within the City's wastewater collection system. The system is called the "Sewer Flow Analysis System (SFAS)". SFAS will be used as a planning and design tool to perform hydraulic analysis of the wastewater collection system, and ultimately to evaluate system capacities for the approval of sewer connection permit applications. The City hopes to have a prototype version of the system up and running by Spring 2001.

SFAS utilizes two third-party software products, ArcView and XP-SWMM. The ArcView software is



Jon Nishimura



Tina Ono

being customized to take the user through a step-by-step procedure to estimate the wastewater flows from each connected parcel. The last step of the ArcView software involves the preparation of the flow data to be imported into the XP-SWMM software. The XP-SWMM software is then used to perform hydraulic analysis of the wastewater flows as it passes through the network of collection system pipes on its way to the treatment plant. The results of the hydraulic analysis provide the user with

an understanding of pipe capacity, velocity, overflow locations, etc. This information can then be used for planning and design of new sewers, relief lines, rehabilitation of sewers, and as a means of evaluating sewer connection applications.

The wastewater flows generated from each connected parcel are estimated using flow factors that are based upon the current facility and activity of the parcel. The parcel information is obtained from the Department of Planning and Permitting (DPP) land use database and population projections. Since DPP tracks detailed information regarding hotels and resort condominiums, this data is also incorporated in the flow estimation for those parcels. The system is also flexible enough to allow for parcel specific flows to be assigned to a particular TMK as needed to account for unusual cases. In addition, factors to account for daily flow fluctuations, dry weather infiltration and wet weather inflow/infiltration are used in the determination of the peak flow throughout the

(Continued on page 20)

For Immediate Release
January 30, 2001

Contact: Nancy Blatt
Barry Eisenberg
1(703)684-2400

TOP WATER QUALITY EXPERTS SET FOR FEBRUARY CONFERENCE IN SAN DIEGO

“Building Public Support” is Theme for Biosolids and Residuals Meeting

(Alexandria, Va.)“Building Public Support,” is the focus of the 14th annual Residuals and Biosolids Management Conference, which will be held February 21-24, 2001 in San Diego, Calif. The event is co-sponsored by the Water Environment Federation (WEF), the American Water Works Association (AWWA), and the California Water Environment Association (CWEA).

Twenty-one technical sessions will cover the latest biosolids issues and most innovative technologies from around the world. (seebox at left). “The conference will be co-chaired by Steve Wilson (Bown and Caldwell) and Jim DeWolfe (Sear-Brown).

Margaret Maxey (University of Texas at Austin) will deliver a keynote speech that directly addresses the issue of public opposition to the use of biosolids. She will argue that this opposition amounts to an embarrassing contradiction for a nation that professes to embrace a policy of recycling.

Three pre-conference workshops will cover key issues in Biosolids management: “California Manual of Practice Training,” “Biosolids Program Management,” and “Environmental Management System Training.”

Four facility tours in the San Diego area round out the program. At the Synagro Regional Composting Facility of Corona, Calif., attendees can view one of the largest outdoor biosolids composting facilities in the United States. The Metropolitan Biosolids Center tour showcases a state-of-the-art sludge processing facility serving the City of San Diego and Metropolitan area. Participants can also see the Richard A. Reynolds Groundwater Demineralization Facility at the Sweetwater Authority. A SeaWorld of California tour will also be offered.

For more information, visit <http://www.wef.org>. To register, call 1(800) 666-0206 or 1(703) 684-2452, or fax 1(703) 684-2471.

Founded in 1928, the Water Environment Federation (WEF) is a not-for-profit technical and educational organization with members from varied disciplines who work toward the WEF vision of preservation and enhancement of the global water environment. The WEF network includes more than 100,000 water quality professionals from 77 Member Associations in 31 countries.

###

Conference Topics

- Regulatory Issues
- Public Acceptance Strategies
- Technological Innovations
- Nutrient Management
- National Biosolids Partnership Update
- Dewatering
- Stabilization
- Thermal Processing
- Land Application
- Membrane Side Streams
- Odor Control
- Success Stories
- International Issues

REFLECTIONS ON WEFTEC 2000...

(Continued from page 8)

the conference package also involved a WEF night at Disneyland. Yes, the park got invaded by wastewater nerds, their families and friends and stayed open until midnight! There were no heavily congested streets, no mile-long lines, and no waiting around in the hot sun (ask our HWEA President how many times he got to ride Space Mountain)! Some of the Hawaii gang had so much fun, they didn't even bother to eat dinner!

The WEFTEC experience was truly a memorable one filled with a lot of information, a lot of networking, a lot of food, and a lot of fun. We encourage you to check out the HWEA website at www.hwea.org to view pictures and additional highlights of WEFTEC 2000. Russell Okita did an outstanding job of putting together a photo gallery

WATER REUSE CONFERENCE RECAP

(Continued from page 9)

an informative presentation on the impacts of the application of reuse water on our susceptible groundwater aquifer.

Consistent with the theme of the conference—*"Completing the Cycle"*, we should always take a look back to the traditional methods used by those before us to manage their natural resources. This idea was presented in the session conducted by Stephen Kubota of the Ahupua'a Action Alliance. Mr. Kubota reported how ancient Hawaiians were able to manage their natural resources while continuing economic stability and self sufficiency.

Of course, a HWEA event is never complete without the traditional Pau Hana Gathering. As usual, ono grinds were provided along with a relaxed atmosphere for the participants to exchange ideas or just to talk story.

If you missed out on the reuse conference in November, don't make the same mistake by not attending the HWEA conference in March. Details on this conference can be found in this newsletter and on the website at www.hwea.org.



Tim and Lance having a "splash" at Disneyland.

(complete with fully descriptive captions) of the Anaheim trip. For those of you who missed WEFTEC 2000, there's always WEFTEC 2001 which will be held "down south" in Atlanta, Georgia on October 13-17, 2001 Atlanta, Georgia.



Friendly exchanges of ideas at the Pau Hana Gathering

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COLLECTION SYSTEM COMMITTEE

(Continued from page 17)

system. Up-to-date flow values generated by SFAS will depend upon obtaining necessary land use and system data from the Department of Planning and Permitting (DPP) and the Department of Environmental Services (ENV).

SFAS is not only intended for use by City engineers, but it is also being designed for use by outside consultants in their wastewater planning and design projects for the City. A completely portable system is envisioned for SFAS that will provide a consistent means of generating wastewater flows and evaluating collection system operations. With the availability of high capacity CDs, data files and/or previous flow modeling runs can be provided to consultants. The consultant would need a Windows-based PC (preferably 750mHz or faster, 256MB or more RAM), the ArcView software (including the spatial analyst extension), and the XP-SWMM software to perform flow analysis.

For additional information regarding the status of this system, please contact Tina Ono at 523-4067.

Questions? Comments? Want to know more? Feel free to contact anyone on the Collection System Committee.

COMMITTEE ACTIVITIES

Public Education Video

The committee is currently involved in a joint effort with HWEA's Public Education Committee and the City & County of Honolulu to initiate a public education program targeting improper use of the collection system by private users. By informing the public of how the sewer system works, why the system typically fails, and how these failures affect public health as well as the users pocketbooks, HWEA and the City hope to encourage proper use of the wastewater system. The committee has received tentative approval for a

State Department of Health Grant for the production of a public education video for broadcasting on commercial television and will need member support in this project.

Collection Systems Workshop

A workshop/symposium focused on wastewater collection system issues is being planned for later this year. Topics considered for discussion include updates on the National sanitary sewer overflows (SSO) policies, EPA enforcement actions on local agencies, design standards for spill prevention, preventive maintenance optimization, and other *exciting* issues. Check the HWEA website for further updates on this upcoming event.

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

2000 WINTER JOB BANK

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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.

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

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For vacancy announcements for the **County of Maui**, please call Carol Kurisu of the Department of Public Works and Waste Management at (808) 243-7850.

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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.

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