The Path Towards Energy Efficiency Begins with Benchmarking
If Your Building’s Energy Performance Isn’t Properly Measured, How Can You Expect to Improve?

by Steve Chang

Reducing your building’s overhead costs is challenging. Hawaii’s high energy prices aren’t helping either. However, the road to saving your building energy isn’t all bumps and bruises. Benchmarking is a valuable tool that makes it easier to evaluate a building’s energy performance and determine if there are opportunities for improvement.

In the automotive industry, fuel efficiency can be measured in terms of miles-per-gallon. In the building industry, benchmarking uses an energy use intensity (EUI) in KBTu/SF and other standardized metrics to measure and compare energy efficiency performance between similar buildings in terms of size and scope. For instance, a hospital that operates every day for 24 hours will have a much different energy intensity profile compared to a commercial office building that is primarily occupied on weekdays during business hours.

Successful benchmarking programs are tailored to the structure and culture of each specific organization. Although a single approach will not address the needs of every market segment, all can benefit by implementing a benchmarking process.

Benefits of Benchmarking

There are several benefits for Hawaii building owners and operators across various industries that conduct benchmarking. They include the following:

1. Informs organizations about how they use energy, where they use it and what drives their energy usage.
2. Identifies maintenance and control problems.
3. Determines key metrics for assessing performance and establishes baselines and goals.
4. Prioritizes efforts. Identifies the drivers of energy use and provides an important diagnostic to improve performance.
5. Provides detailed information about annual energy usage and expected costs for those interested in leasing or purchasing a building.
6. Uncovers savings potential. Helps to develop a comprehensive energy management action plan to make informed decisions about the best measures for reducing energy costs.
7. Educates and inspires.

Benchmarking Initiative

Under the direction of the Hawaii Public Utilities Commission (PUC), Hawaii Energy – the ratepayer-funded energy conservation and efficiency program for Hawaii, Honolulu and Maui counties – launched a benchmarking initiative available until June 30, 2015 or while funding is available. This initiative was developed to assist qualifying building owners and operators to better understand their EUI and discover opportunities to improve performance. To qualify for this initiative the building owner must be an electric utility ratepayer in Hawaii, Honolulu or Maui county.

Eligible Buildings

Several types of buildings are eligible for the benchmarking initiative, including commercial buildings (i.e., hotels, office buildings, high rise condominiums) and privately-owned water and wastewater facilities in the counties of Hawaii, Honolulu and Maui. These buildings must be single facilities (one building) of 5,000 square feet or more or a portfolio of facilities that total 10,000 square feet or more, which have not been issued an ENERGY STAR Portfolio Manager® benchmarking score within the past two years. Government facilities are not eligible for this program. However, the Department of Business, Economic Development and Tourism (DBEDT) is undertaking a similar program that targets these facilities.

By participating in the Hawaii Energy initiative, organizations will have the opportunity to compare energy usage against their peers, reduce overhead costs, improve environmental performance and gain recognition for their energy efficiency accomplishments.

The Process

Conducting a benchmark involves uncovering the key drivers of energy use and adjusting or normalizing the metrics used to compare energy use. Data is normalized for relative size, weather, occupancy, number of employees and production levels. This allows for a pineapple-to-pineapple comparison.

First, decide on the goals, scope and metrics that will support energy management activities and objectives.

- Next, utility data is gathered (electric, gas and water).
- That data is then transferred into the ENERGY STAR Portfolio Manager, an online benchmarking tool for measuring EUI, which can provide a score for eligible building types.
- The ENERGY STAR® performance score ranges from 1 through 100, using the normalization criteria above. The higher the score the more energy-efficient the building.
  - For example, buildings with a score of 75 or more are considered top performers among their peer group and eligible to receive an ENERGY STAR certification to recognize their energy efficiency efforts.
  - If a building has a lower score such as 30, it indicates that it is only more energy-efficient than 30 percent of comparable facilities (in terms of size and function). Therefore, several opportunities exist for these buildings to increase energy performance.

Depending on how a building scores, Hawaii Energy may provide targeted financial incentives that can include energy audits, studies, increased incentives for energy conservation and efficiency measures, whole building assistance, decision-maker metering and ENERGY STAR certification assistance.
2015 SAME Honolulu Post Scholarship Program

The Society of American Military Engineers Honolulu post is offering up to seven scholarships in three categories:

- **$6,000 “Merit-based”** 4-year Scholarship (up to 4) open to a Hawaii high school senior who has been accepted into the College of Engineering or School of Architecture at a 4-year university with an accredited Engineering or Architecture program.

- **$1,500 “Merit-based”** One-year Scholarship (up to 2) open to a Hawaii undergraduate or graduate student currently enrolled in the College of Engineering or School of Architecture at a 4-year university with an accredited Engineering or Architecture program.

- **$1,500 “Need-based”** One-year Scholarship (one) open to a non-traditional Hawaii undergraduate or graduate student currently enrolled in the College of Engineering or School of Architecture program at a 4-year university with an accredited Engineering or Architecture program.

Common eligibility requirements include:

✓ Minimum 3.0 GPA
✓ Military affiliation or experience (i.e., SAME member or dependent, military dependent, Junior ROTC or ROTC) not required, but given preference
✓ U.S. citizen

Scholarship application submittal requirements include:

✓ Application obtained from www.same-honolulu.org.
✓ Official transcripts
✓ Essay

APPLICATION DEADLINE: Postmarked by June 5, 2015

Winners will be announced in early July 2015. For more information, contact Julie Chen at Scholarship@samehonolulu.org.
Keauhou Aquifer

For nearly two years, the Kona-Kohala chapter of the Hawaii Society of Professional Engineers (KK HSPE) has been following the issue of the National Park Service (NPS) petitioning to designate the Keauhou Aquifer as a groundwater management area. After studying the issue, including listening to presentations by some of Hawaii Islands most prestigious Hydro-geologists, the KK HSPE decided to oppose the petition. In its opposition, KK HSPE have partnered with many groups on the Island, including Peter Young, who is also strongly opposed to the designation. KK HSPE’s reasons for opposition are as follows:

1) Proper management of the aquifer appears to be taking place at the County and Local level through efforts by the Hawai‘i County DWS and the Kona Water Roundtable, a forum which is open to community engineers and stakeholders.

2) Possibly the biggest concern is that it will create another level of bureaucracy that would allow a group like the National Parks Service to stall any development through protests of any use application, protests that could continue almost indefinitely. NPS’s position appears to be solidly against any development. Designation is expected to destroy any prospect of prudent development. The KK HSPE feels the entire community deserves input on decisions that attempt to balance this resource that all are entitled to. KK HSPE cares about sustaining the resources of their home, but recognizes also the need to sustain the community for the future. No special interest group should be given a stranglehold on this community process.

The following article by Peter Young points out that there are other ways for the NPS to spend resources if water quality is their concern. It questions why these other options are not being pursued, at a minimum, in parallel with the designation effort. It does not suggest that doing this will then provide adequate groundwater for all. Rather it begins with the premise that there is already adequate groundwater for all, but that the NPS can do more to manage the portion that they currently use.

Why won’t the National Park focus on its resources – rather than the petition?

By Peter T Young, President, Ho‘okuleana LLC

The premise of the National Park’s petition for groundwater management area designation is that withdrawal from wells in the high level aquifer will impact the anchialine ponds, fishponds and native Hawaiian practices. The National Park’s Spirit Report says, “In order to further preserve and restore the historical integrity of the Kaloko, Honokohau settlement area, a long-term plan will be designed to eradicate the exotic vegetation and animal life which now dominate the area. The park will then be replanted with native vegetation”. (Spirit Report, 1974)

The Park’s Management Plan (1994) notes, “...a primary purpose of the park is to preserve and interpret pre-contact Hawaiian culture and land use. A graphic landscape plan is needed before proceeding with efforts aimed at restoring the character of the vegetation to that which existed before non-Hawaiian introductions. Emphasis will be on replacing the more common aliens with culturally important or endemic species.”

We then learn that numerous vegetation analysis reports have been conducted in the Park (1990, 1996 & 2011.) In 1990, the vegetation assessment found that 39-species? or 53% of all species - were alien ... many of them invasive. An updated inventory was conducted in 1996; we learn that in a very short time, the alien species increased from 39-plant species to 80-plant species.

More alarming, the ratio of alien-to-total species increased from 53% to 69%. As noted – the Park was (and is) dominated by alien plants. And, these plants are having negative impacts on the Park’s resources, including their ponds.

Most recently, the Park notes, “Alien vegetation has come to dominate the vegetation community in Kaloko-Honokohau National Historical Park. Species that are damaging sites include kiawe, ekoa, christmasberry and fountain grass.” Alien vegetation is causing extensive damage to archaeological sites, including toppling walls, uprooting foundations, obscuring petroglyphs and disturbing hidden deposits. …In addition to damaging archaeological sites, invasive vegetation is extremely dense, obscuring visibility and preventing access to sites making it impossible to locate, map and document sites.” (NPS Records, sent December 31, 2014)

A plant of particular concern is Kiawe. In 2011, the Park conducted an extensive Vegetation Map of the Park. Of the Park’s approximate 681 acres of land, nearly 100-acres are covered by “Kiawe Coastal Dry Semi?natural Woodland.” Why is kiawe removal important? In 2014, the Economic Research Organization at the University of Hawai‘i conducted a study looking at the interdependent resources of groundwater and Kiawe.

They note Kiawe is not good for groundwater … Quantity or Quality. “It particularly considers the case where the groundwater uptake of an invasive species detracts from the aquifer stock. …The model’s application to the Kona Coast (Hawai‘i) showed that Kiawe management can generate a large net present value for groundwater users.” (If you remove the Kiawe, there will be more fresh groundwater.) Likewise, the UHERO report says, “A nitrogen-fixing legume, Kiawe can potentially reduce groundwater quality by providing nitrogen-rich organic material for leaching, as well as reduce regional groundwater levels”. Likewise, the National Park should be properly managing the anchialine ponds in the park. Surprisingly, the National Park didn’t see the conflicting messages in highlighting this anchialine pond during the September 17, 2014 Water Commission site inspection. As noted above, christmasberry is an invasive plant that impacts Park resources.) The following image only shows part of the pond - the christmasberry (another invasive species) overhangs the other half of the pond. Like Kiawe, christmasberry sucks up the groundwa-ter - taking the freshwater from the anchialine pond; it also drops leaf litter into the pond.

Recall the findings in the Park’s Assessment of Coastal Water Resources and Watershed Conditions in Kaloko-Honokohau National Historical Park, Hawai‘i (Hoover and Gold, 2005) notes: “Reductions in pond area in recent times probably have resulted primarily from infilling by locally-generated sediments and overgrowth by alien vegetation, ... a number of anchialine ponds in KAHO have been degraded by sedimentation from sources in or adjacent to the pools.”

“The primary cause seems to be accumulation of organic matter produced within the pond or from adjacent terrestrial (often alien) vegetation. Accelerated sedimentation in pools reduces water exchange and leads to premature pool senescence (biological aging).”

“Rather than spend their time and taxpayers’ money fighting for designation, the National Park should be following the law and their plans and remove the invasive species and restore the native vegetation.”
CCMAA Hawaii Chapter
http://hawchapter.cmaa.org

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Chapter Conference, taking place on Tuesday, May 21st, 2015.

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Hawaii's Kakaako Makai site. Mr. Quinn Vittum, Director of Communications and Public Relations, led the group on a tour of the facility.

"Lunch & Learn" event was held at Reuse Hawaii. The event featured speakers discussing topics related to the construction industry.

Executive Committee Meeting
Last held: April 6, 2015
Next meeting: May 5, 2015

Continuing Education
ASCE National offers more than 275 seminars and computer workshops each year on a wide variety of technical, management, and regulatory topics. These seminars are held in more than 45 cities across the U.S. In addition, ASCE offers customized on-site training and many distance learning programs, including live interactive web/teleconference seminars, online courses and courses on CD, videotape, and audiotape. Please visit http://www.asce-hawaii.org/links.html and click on ASCE National for complete details.

ASCE Hawaii Section Student Scholarships
Please help us increase our scholarship fund.

Construction Management Association of America
2015 CMAA HAWAII CHAPTER CONFERENCE
WHEN: TUESDAY, MAY 12, 2015
8:00 a.m. Registration
9:00 a.m. Program Start
11:45 a.m. Luncheon Buffet
2:45 p.m. Program Ends
3:00 p.m. Social Hour (no-host bar, pupus will be provided)
WHERE: Ko'olau Ballrooms – Grand Ballroom
45-550 Kionaole Road, Kaneohe HI 96744
(808) 954-7000
PRICE: $90 Member & CCM / $125 Non-Member / $50 Student

SPEAKERS & TOPICS:
o Jason Dodds (DOFort Inc.) – Tools for Virtual Design & Construction
o George Atta (Department of Planning and Permitting, City and County of Honolulu) – Permitting and Construction Outreach
o Eugene Tian (Department of Business, Economic Development & Tourism, State of Hawaii) – Housing Shortage and its Impact to Construction Permitting
o Norman Takeya (Honolulu Community College) – Lumion Rendering and Animation
o Steven Gallagher (NOAA) – NOAA’s New LEED-Gold Inouye Center Facility
o Tracy Lawson (Lawson & Associates) – Construction Safety
o Anna Oshiro (Damon Key Keong Kupchak Hastert, a Law Corporation) – Construction Law; Contracts; and Dispute Resolution

Ballrooms and Conference Center (45-550 Kionaole Rd, Kaneohe HI, 96744) Please plan to join us as we host presentations on important topics related to the Construction Management industry. To register please visit https://docs.google.com/forms/d/1bx-ro19t51coq7rkQl512Fa77TKOTWmg-KvNhwhcg0W/viewform?usp=send_form

We will follow our chapter conference with a CMAA Community Service Event, also in May of 2015, continuing our partnership with the Hawaii Judiciary to transform the Honolulu boy’s home into Hale Hilina‘i - a place of hope and safety for Oahu’s at risk youth. This is a very rewarding project that we are fortunate to have the opportunity to be involved with. If you would be interested in joining us (all are welcome), please let us know. Our chapter is here as a resource for all Construction Engineering and Management professionals.

If you have any questions regarding any of our upcoming events, would like to become more involved with the CMAA Hawaii Chapter or would simply like to be added to our email list, please email us at hawaii.cmaa@gmail.com, also please note that we have a new mailing address: CMAA Hawaii, PO Box 531, Honolulu, HI 98609 Looking for a CCM? The current listing for all Hawaii CCMs can be found here: https://cmaaenet.org/certified-construction-managers-registry

2014-2015 ASCE HAWAII SECTION OFFICERS
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MAY DINNER MEETING
Program: Overview of the Office of Planning and the Environmental Review Process
Speaker: Joshua K. Hekekia, Planner, Coastal Zone Management Program, Office of Planning
Synopsis: An overview of the Office of Planning, its responsibilities as they pertain to the environmental review process: CZM program Objectives and Policies – HRS § 205A-2; the Hawaii State Planning Act – HRS § 226; Special Management Area/Shoreline Setback Variances – HRS § 205A; Federal Consistency; and programs and policies supported by the CZM program (coastal non-point pollution control, stormwater impact assessments, and Low-Impact Development design concepts).

Date: Thursday, May 21st, 2015
Location: Dave and Busters, Pa‘ina Room (2nd Floor)

Time: 5:30 p.m. Social Time
6:30 p.m. Dinner
7:00 p.m. Program

Menu: Multi-entrée buffet
Cost: $30.00 for ASCE Hawaii Section Members
$35.00 for Non-Members and Guests
$20.00 for University of Hawaii at Manoa ASCE Student Chapter Members

Reservations: Please make checks payable to “ASCE Hawaii Section” and mail to: Eric Arakawa, ASCE Hawaii Section Treasurer, The Limtiaco Consulting Group, 1622 Kanakanui Street, Honolulu, HI 96817. By Tuesday, May 12th, 2015. Please email RSVP by Wednesday, May 13th, 2015, (808) 596-7790 or email at eric.a@tclghawaii.com. No shows will be billed.

EXECUTIVE COMMITTEE MEETING

Last held: April 6, 2015
Next meeting: May 5, 2015

Continuing Education
ASCE National offers more than 275 seminars and computer workshops each year on a wide variety of technical, management, and regulatory topics. These seminars are held in more than 45 cities across the U.S. In addition, ASCE offers customized on-site training and many distance learning programs, including live interactive web/teleconference seminars, online courses and courses on CD, videotape, and audiotape. Please visit http://www.asce-hawaii.org/links.html and click on ASCE National for complete details.

ASCE HAWAII SECTION STUDENT SCHOLARSHIPS
Please help us increase our scholarship fund.
2015 BOD OFFICERS AND DIRECTORS

Position              Officer                                    Phone
President             Fernando Frontera             781-2802
Vice President        Jeffrey Hanyu
Secretary             Joshua Tyau                       535-3012
Treasurer             Jinghai Yang                      791-3947
Director (Yr 2)       Paul Kane III                      537-2811
Director (Yr 2)       Tim Waite                           479-1216
Director (Yr 1)       Dennis Sakamoto               682-5737
dennis@tilecoinc.com
Director (Yr 1)       Gaur Johnson                       956-2377
Past President        Ethan Okuna             945-0198 x103
http://www.seaoh.org

HIGHLIGHTS OF BOD MEETING
April 1, 2015

General Membership Meetings/Technical Seminars/Events
For all events see seaoh.org or look for email flyer for registration.
• May 8 – Precast Design Seminar by Clay Naito from Leigh University on blast and seismic design of diaphragms.
• June 11, 12, 13 - PTI Certification Workshop: Level 1 & 2 Unbonded Post-Tension Special Inspector

Check Out the New SEAOH Website
If you haven’t done so yet, please go to SEAOH.org to check our re-vamped website – it’s loaded with lots of fantastic information. You can see upcoming events, list job openings, find a new job, access resources such as links to the current building codes, advertise your business, and much more!

SEAOH Renewals
SEAOH membership renewal forms have been sent out to all members. If you haven’t done so already, please complete forms and send in membership dues.

SEAOH Governing Documents
Also included with this year’s renewal forms are important updates to the SEAOH governing documents (the Charter of Incorporation and Bylaws). The current and proposed versions can be found on our website at http://www.seaoh.org/about/bylaws-charter. Please contact any officer if you would like a hardcopy. You have the option to vote for or against the proposed bylaws and charter. Please send in ballots with membership renewals.

New Member
Brian Ching of Kai Hawaii has been accepted as an Allied member.

New Member Applications
Application for the following individuals has been received and is open for comments from the membership:
Nicholas Groves of SSFM International as an Allied Member.

Ian Jehn of Baldridge and Associates as an Allied Member.
Jarrett Yanagida of Consulting Structural Hawaii as an Allied Member.

Missing Members
Please contact Membership Chairperson, Jiabao Chen (Ph: 791-3945 or email jchen@kaihawaii.com), or any of the SEAOH Officers if you have a new mailing and/or email address.

Next Meeting
The next SEAOH Board of Directors and Officers meeting will be on May 6, 2015. For location, contact SEAOH President Fernando Frontera (781-2802 ffrontera@baseengr.com).

2014-2015 YMF Officers
Puna Kaneakua, President
Pkaneakua@ascehawaiiymf.org
Amanda Tanaka, Vice President
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Norman Leong, Secretary
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Jordan Urabe, Treasurer
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Jason Sugibayashi, Past President
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YMF General Meeting
The next YMF general meeting is scheduled for Wednesday, May 6, 6:00 p.m. at Hoku Brewing Company. If you are interested in attending to find out what the YMF is all about, contact YMF at ymf.hawaii@gmail.com.

Heeia Fishpond
By Lori Higashi and David Miyasaki, Community Service Co-Chairs
On Saturday, March 14, 2015, YMF members participated in Heeia Fishpond’s Community Workday. The non-profit organization dedicated to maintaining the ancient Hawaiian fishpond, Paepae o He’eia gave us an overview of its past, present and future. The workday consisted of volunteers cutting and removing the mangrove trees. Volunteers stacked the mangrove into wood piles for burning. After the hard work was done, lunch was provided by Paepae o He’eia. In all, it was a fun event and thank you to all the volunteers for coming out to help with this event and to Paepae o He’eia for coordinating this event with YMF.

Heeia Fishpond work crew
Tour was sponsored by Chairman Derek Sato.
- UH MDE report by Dr. Zac Trimble: 1) ME continues as the largest COE department with 368 students enrolled in 2015 (increase of 128 students); 2) although being the largest there is a hiring freeze in place that places a burden on providing adequate number of classes and faculty; 3) to accommodate ME labs, the number of TAs has tripled; 4) an ABET review meeting is scheduled for May 9, 5) currently there is a need for professors for Mechanics, Thermal Dynamics, and Fluids, and 6) a new mechanical technician, Louis Moores, started March 1.
- Unfinished Business topics included 1) MATHCOUNTS follow up report, 2) our 2015 Ballot and Survey status – as usual response has been terrible, and 3) Montgomery Fund financial discussions.
- New Business topics included Hawaii Section polo shirts, where the ones received were very satisfactory that other members may want to order shirts.

ASME HAWAII SECTION HISTORY

Having some free time, I started updating our section website. I got to the Past-Chairman list, and thought I would add some history to our past-chairs. As expected there are a lot on the Internet.

Starting with our first chairman, and one of the charter members of the Hawaii Section, Lieutenant General Henry S. Aurand Sr., I was surprised on how important he was. The following is a very brief history copied from the Ordnance Corps Hall of Fame of Henry S. Aurand, Sr. in 2003 Inductee.

Henry S. Aurand, Sr. graduated from West Point in 1915. During the interwar years, he served in a series of student, instructor, and field assignments that developed his expertise as an Ordnance officer and logistician.

With his experience in mobilization planning, Aurand was selected in 1924 for a special assignment in the Office of the Chief of Ordnance to work on the Army Industrial Mobilization Plan, and later, just before World War II, he became Chief, Plans and Requirements, Army G-4.

During World War II he served in a series of key general officer positions. From 1942 until 1944, he commanded the 6th Service Command. He took command of the Network Base section in France, which pushed supplies forward during the Battle of the Bulge. He pioneered the use of IBM punch cards to manage the base section ammunition inventory. He subsequently served as Commanding General, Service of Supply, China Theatre; and, at the war’s end, as the last Commanding General of the Africa-Middle East Theater.

In 1946, General Dwight D. Eisenhower, the new Army Chief of Staff, summoned Aurand to serve as War Department Director of Research and Development. LTG Aurand ended his career as Commanding General, US Army Pacific, retiring in August 1952.

The papers of General Henry S. Aurand, Sr. were deposited in the Dwight D. Eisenhower Library in Abilene, Kansas, in 1969. This included 63,200 pages. Aurand died in 1980 and is buried in Arlington National Cemetery.

For more information on ASME Hawaii Section first chairman, please google Lieutenant General Henry S. Aurand, Sr. on the Internet.
Wai Golf Course. Golf Committee Chair Rouen Liu extends a big mahalo to all participants and volunteers for yet another successful event. Proceeds will sustain the Chapter's education fund which provides annual monetary awards at the State Science and Engineering Fair and annual partial scholarships towards higher education tuition to eligible students who major in a public works-related field. The incoming 2015 Chapter officers were also installed and introduced at the conclusion of the tournament.

National Public Works Week
National Public Works Week (NPWW) is traditionally sponsored and observed during the third full week in May. During May 17-23, Hawaii Chapter will maintain an exhibit of various recent public works projects to energize and educate the public on the importance of the contribution of public works to their daily lives. The annual exhibit will be on display for the entire week in Kahala Mall.

This year’s theme “Community Begins Here” speaks to the essential nature of Public Works services in support of everyday quality of life. There would be no community without the quality of life public works provides. There would be no community to police and protect, no public to lead or represent. Public works allows the world as we know it to be.

Instituted as a public education campaign by APWA in 1960, NPWW calls attention to the importance of public works in community life. Through the Week and other efforts, APWA seeks to raise the public’s awareness of public works issues and to increase confidence in public works employees and professionals who are the often-unsung heroes of our society.

Additional information may be found on www.apwa.net/discover/national-public-works-week.

Higher Education Scholarship deadline
Hawaii Chapter offers annual partial scholarships towards higher education tuition to eligible students who major in a public works-related field. Applications are due no later than June 1. Scholarship applications and additional information are available at hawaii.apwa.net/resources/scholarships.

### ASCE JOB LISTINGS

The following job listings are currently posted on the ASCE Hawaii Section website:

- **Civil Engineer VI** – City and County of Honolulu
- **Civil Engineer IV** – City and County of Honolulu
- **Civil Engineer V** – City and County of Honolulu
- **Mechanical Engineer IV** – City and County of Honolulu
- **Structural Engineer V** – City and County of Honolulu
- **Mechanical Engineer – Coffman Engineers**:
- **Structural Engineer – Coffman Engineers**
- **Civil Engineer V – SSFM International**
- **Structural Engineer IV – SSFM International**
- **Architect (Design Engineer) – Bishop & Co.**
- **Civil Engineer (Design Engineer) – Bishop & Co.**
- **Structural Engineer (Design Engineer) – Bishop & Co.**
- **Mechanical Engineer (Design Engineer) – Bishop & Co.**
- **Environmental Engineer – Bishop & Co.**
- **Construction Manager – (Company withhold)**

For further information on these job listings or to find out how you can post job openings in your company on this website, please visit http://www.ascehawaii.org/job-listings.html.