

TURNING THE PAGE ON COAL, HAWAII RETIRES ITS LAST COAL PLANT

By Monique Schafer, Hawaii State Energy Office

With the recent retirement of Hawaii's last coal-fired power plant, Hawaii takes one step closer to realizing its renewable energy goals. The retirement serves as an opportunity for Hawaii residents to reflect on history and the retirement also reminds us to critically think about where energy comes from and the energy path ahead, setting high standards and goals for identifying where Hawaii's energy will come from in the future.

Coal in Hawaii – A brief history

Coal in Hawaii began with maritime coaling. In the 1860s coal-burning ships, or steam engines dominated the US Navy's ship fleet. Coal-burning ships required coaling stations to refuel. Hawaii's location in the middle of the Pacific Ocean made Hawaii an ideal location to establish a coaling station to power Navy ships. The lease of land for the coaling station in Honolulu Harbor was the U.S. Navy's first established shore-side presence in the Hawaiian Islands. Networks of coaling stations were established throughout the Hawaiian Islands until fuel oil emerged in the early 1900s. Coal also played a key role in supplementing energy for many of Hawaii's sugar mills from the 1880s to the 1990s. In 1880, the Makee Sugar Mill in Kapa'a, Kauai used 244 tons of coal to support its milling operations, including boiling sugar cane. This was a common practice for many of Hawaii's sugar mills.

Modern Coal Use in the Electric Energy Portfolio

In the 1980s there was a push to diversify the electric portfolio as price volatile petroleum dominated the energy sector. This push resulted in the first use of coal for electricity in Hawaii at the Hilo Coast Power Company in Pepe'ekeo on Hawaii Island, HC&S in Pu'unēnē on Maui, and in the early 1990s the AES Hawaii Power Plant in Campbell Industrial Park on Oahu.

Since 2000, coal imports to Hawaii have predominantly come from the East Kalimantan region of Indonesia. On average, the AES Hawaii coal plant imported and burned ~702,000 tons of coal and tire-derived fuel per year. However, the use of coal comes at a cost, not only to the local environment but to the environment and communities from which the coal is continuously extracted. Mines in East Kalimantan, Indonesia provided the majority of Hawaii's coal. Forest land cover has dramatically declined from the coal mining in this region. In addition, unregulated mining has led to soil and water contamination in the region. After the coal plant retires, Hawaii will

no longer contribute to deforestation from coal mining. The upstream environmental impacts associated with coal mining, particularly in developing countries highlight the importance of the transition away from coal as an energy source.

In 2020, the coal plant had the 2nd highest total greenhouse gas emissions after Kahe Power Plant producing 1.4 million short tons of carbon dioxide equivalent annually. These emissions are solely from operations and do not include upstream emissions associated with mining and transport, which are harder to quantify. The operational emissions from the power plant are approximately equivalent to 1.5 million acres of forests sequestering carbon in 1 year, or 1 million tree seedlings grown for 10 years.

Moving Forward

Adapting to new technology and a new way of energy production will be critical as the state transitions to cleaner energy. Oahu's only electric utility, Hawaiian Electric Company (HECO), has been planning for the retirement of the AES coal plant since 2016, or earlier. The reason: HECO must accept all electricity generated by the coal plant, which constrains its flexibility and ability to incorporate other power sources, specifically renewable energy. In 2017, the Hawaii Public Utilities Commission

opened a docket for Hawaiian Electric to procure renewable generation according to the 2016 Power Supply Improvement Plan, with the intent for the projects to be online by the end of 2020. In 2018, Hawaiian Electric issued RFPs for these projects and selected eight utility-scale solar plus battery storage projects that ranged from nine to thirteen cents per kilowatt-hour, four of which are on Oahu. Unfortunately, in 2020 the world faced COVID-19 leading to shut-downs around the world that have had a domino effect, impacting supply chains around the world, and still impacting the renewable energy industry to date.

Collaboration and transparency help to overcome the issue and mitigate delays that are within the control of island stakeholders. The Powering Past Coal Task Force leads these efforts. One project, the Mililani I Solar Plus Storage Project, in central Oahu, energized and began commercial operations on July 31, 2022. The energy generated by the 39 MW + 156 MWh project will replace a portion of the coal plant's energy. While the other anticipated renewable energy projects did not come online as planned, projects selected to replace the coal plant's energy are anticipated to come online in 2023 and 2024.

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The last coal shipment to Hawaii arrives at Barbers Point Harbor on July 27, 2022. Picture credit: Hawaii State Energy Office



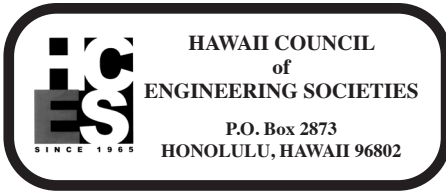
Published monthly by:

HAWAII COUNCIL OF ENGINEERING SOCIETIES
SERVICE PRINTERS, INC.

1829 Dillingham Boulevard • Honolulu, HI 96819
Telephone: (808) 841-7644 • Fax: (808) 847-1487
ADDRESS ARTICLES FOR PUBLICATION TO:
WARREN YAMAMOTO
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WILIKI MAILING LIST

Additions and/or corrections to the Wiliki mailing list should indicate the proper society, institution or association. Corrections to email addresses should be submitted to your society coordinator.



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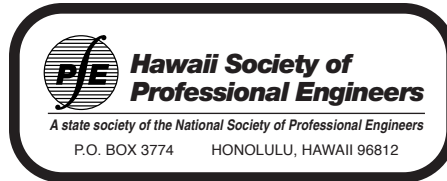


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<http://www.hawaiispe.org/>

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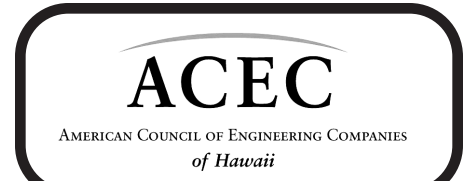
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Nominations for the **Engineer of the Year** and **Young Engineer of the Year** candidates are being accepted. Nomination forms will be available on the HCES website at <http://hceshawaii.org/> or by contacting Kurt Kunimune of HSPE. The awardees will be presented at the Engineer's Week Banquet in February of 2023. Please contact Kurt Kunimune of HSPE at kkunimune@bowersandkubota.com for nomination forms or with any questions. Nominations will be due by Wednesday, December 28, 2022. Mahalo!



technician to professional to expertise level including CCT, CCP, CEP, EVP and PSP Certification Programs.

The local section, AACE Hawaii, was originally established in 1973. It achieved both the Platinum and Gold Award for seven consecutive years 2014-2021. Our local area continues to achieve CCP, CEP, CST and PSP certifications. For more information, please visit <http://web.aacei.org/certification> and our local website www.aacehawaii.com.



ACEC Hawaii

Website: www.acechawaii.org

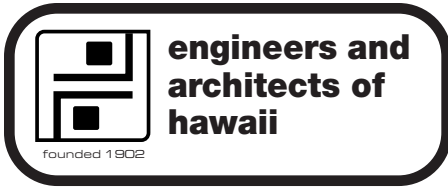
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On August 11, 2022, the American Council of Engineering Companies Hawaii (ACECH) and the City and County of Honolulu (CCH) hosted a mixer for local engineering students attending college on the mainland. The event was held at Dave and Buster's, and there was a large turnout of 27 students and more than 60 seasoned engineers. This event was an opportunity for students to meet engineers from the CCH and private engineering companies to hear about employment opportunities in Hawaii. One of the biggest concerns for the engineering community is the shortage of engineers in the local workforce, and the hope was to encourage mainland engineering students to return home after college. Students were also polled upon their arrival about whether they plan to return to Hawaii after college, and responses ranged from "yes" to concerns about job availability and the high cost of living in Hawaii.

Thank you to everyone who attended this event and made it a success! We hope to make this an annual event, and we appreciate everyone's support.





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ATTENTION!!!

eah has restarted in-person meetings at our old 301 meeting room in the Topa Tower and continues Zoom meetings as well. Email eah-hawaii@gmail.com if you plan on attending in-person or to get the Zoom invitation.

Upcoming Meetings

Friday October 7th

Speakers:

Drew Epperson, Director – Federal Engineering Palo Alto Networks

Grant Jones, Regional Manager - IndoPacific Theatre Palo Alto Networks

Topic: “The Role of Cyber Security in SCADA Systems and Modern Buildings”

With the rise of advanced threats against SCADA systems and modern buildings, cyber security has risen to the forefront. Today, the threat from nation states is no longer just against large government organizations. Commercial, state, and local, and anything with connectivity needs to consider their cyber security policy and how they're going to protect themselves against new threats.

Friday October 21st

Speakers:

Professor Rod MacDonald, Simulation tools for Government Agencies

Raafat Mahmoud, Researcher with experience at WPI and MIT

Michael Boone, Student

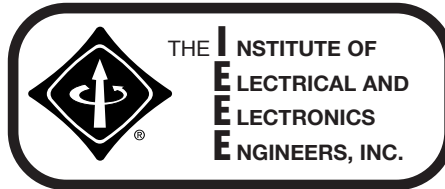
Ryan Welsh, Student

Topic: “The Foundation of System Dynamics”

The foundation of System Dynamics by Jay Forrester in the fifties at MIT was based on systems thinking that integrated multiple parts of the organization, the supply chain, and the environment for a better designing of intervention policies with the aid of computer simulation models. Therefore, system dynamics is positioned as an enabler in holistic and complex problem-solving approaches.

Four speakers from James Madison University JMU Integrated Science and Technology Program will engage our Zoom audience and Topa Tower Rm 301 Participants 21 October!

Visit website – eahawaii.org for meetings updates.



IEEE Hawaii Section

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Sandbox Seminar Series

The Hawaii Section announced a new seminar series at the Entrepreneur's Sandbox, 643 lialo St, Honolulu. Free and open to the public. Please register. Use the link to find the abstract, speaker's bio, and registration.

4pm, Tuesday, October 11

Dr. Yuhong Liu, Santa Clara University

Facilitating Security and Trust Among Multiple Parties Through Blockchain Techniques
bit.ly/3U8zKE1

4 pm Tuesday, November 1

Dr. Olivera Kotevska, Oak Ridge National Laboratories

Privacy algorithms: Research practice and Industry transfer
bit.ly/3DtIzIK

4 pm Tuesday, December 6

Dr. Sky Kauwelo, Esports, University of Hawaii

Esports: Managing Competition With Network Latency Challenges
bit.ly/3Uqc7XI

4 pm Tuesday, January 10

James Mercier, P.E.

Practical Instruction on Ufer Grounds
bit.ly/3QI6pxj

Of special note: James Mercier is a CE and EE with long experience working with Ufer Grounds. He will be addressing common errors and myths with Ufer grounds, He will

also address errors in IEEE Standard 142-2007 (Green Book) and errors in interpreting the NEC.



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The ITE Hawaii Section held a technical tour of the Kalihi-Palama Bus Facility on September 16th, 2022. Department of Transportation staff described the City's future plans to fully electrify the public bus and support vehicle fleet. Oahu Transit Services (OTS) staff then gave a tour of electric bus chargers, the interior of a battery electric bus, the OTS Central Operations Center, and other bus maintenance facilities.

ITE Hawaii members participated in UH Manoa's Welcome Back Showcase for Engineering Students on Friday, September 2nd. We had our complete streets activity set up for the students and thanks to our Hawaii Section members, students learned more about our organization and what ITE offers. ITE Hawaii members also participated in the Virtual Resume & Speed Interview Workshop hosted by the ITE Hawaii Section on September 7, 2022. ITE's members reviewed UH students' resumes, conducted speed interviews and gave career advice. We would like to thank all of the members who joined us at the workshop and we hope you all had a great time.

If you would like to be added to the ITE mailing list, please email Mike Motoki at michael.motoki@honolulu.gov.



WILIKI ADVERTISERS NEEDED

5" x 2" – (10□) \$64.00	2 ⁵ / ₁₆ " x 2 ¹ / ₂ " (6□) \$40.00	7 ¹ / ₂ " x 5" – (37 ¹ / ₂ □) 1/2 page – \$240.00
7 ¹ / ₂ " x 3 ⁵ / ₁₆ " – (25□) (1/3 page) – \$160.00	4 ⁷ / ₈ " x 2 ⁵ / ₁₆ " (11□)) \$72.00	2 ⁵ / ₁₆ " x 1 ¹ / ₄ " \$20.00

The price for the ads will be based on a 1¹/₄" x 2⁵/₁₆" module size which is 1/24th of the page, and be \$20.00 per month with a 15% DISCOUNT for a 6-MONTH RUN.



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YMF General Meeting

The next YMF general meetings will be in-person on Wednesday, October 5, 2022 at 6:00 PM and Wednesday, November 2, 2022 at 6:00 PM. Please be sure to check out our website, social media channels, or weekly eblast for the most updated information on our upcoming general meeting and events. If you are interested in attending and learning more about the various professional, social, and service opportunities available through YMF, please contact YMF at *ymf.hawaii@gmail.com*.

Koa Ridge Field Trip

On August 27, 2022, 40 ASCE YMF members participated in a tour of the "Koa Ridge" master planned community hosted by Castle & Cooke Homes Hawaii, Inc. (CCHHI). In the first part of the tour the members were able to tour a model home and the design center which was given by Kelly-Ann Chandler, Edna Gomez and Michele Otake. Later, everyone drove over to the construction site where we were given a brief explanation by Darian Chun, Garret Matsunami and Jed Miyazaki about the work that is being planned. To finish off the tour, the YMF members were given a tour of one of the yet to be completed homes in the Walea Phase. We want to thank everyone at CCHHI for having us and allowing us to have this special opportunity!

Pickleball Social Event

Thank you to everyone who attended the Pickleball event on Wednesday, August 17th, 2022 at Mother of Waldren Park! Over 40 members took to the courts and competed against one another before our pau hana at SALT Kakaako. Thank you to those who loaned us pickleball equipment and taught all of us how to play and keep score! Till next time!

ASCE YMF Job Shadow Program

The Job Shadow Program is looking for students and industry professionals that are interested in becoming a mentee/mentor. Your interest and participation through this program will provide a valuable experience that will help guide students towards a successful path beyond graduation! If you have any questions and/or to sign up*, please email the Job Shadow Program directly at *ymfhawaii.jobshadow@gmail.com*

*Note: Information collected will help the Job Shadow Program pair mentor(s) and mentee(s) up based on their experience and interest.

2022 PE Exam Update

The PE Exam is now computer-based with appointments available year-round at Pearson VUE test centers. Information about how to register for the exam and purchase study materials can be found on the YMF website:
<https://ascehawaiiymf.org/pe-exam-information>

Online PE Refresher Course

The Hawaii YMF has partnered with Pathceed, an online PE Exam refresher course that covers the breadth portion of the civil engineering exam. This course features 12-hours of on-demand course materials that may be accessed for a 6-month period, and a one-time free access should you not pass the exam. Curious but want a sample of the course? There's a free 1-hour lesson you can check-out before committing to the program! Cost of the course is \$289 and we are offering ASCE Hawaii YMF members a \$40 discount when registering. If interested in signing up for this course, please contact us at *ymf808.pecourse@gmail.com* for more information.



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EXECUTIVE COMMITTEE MEETING

Last held: September 6, 2022
 Next meeting: October 6, 2022

ASCE HAWAII SECTION DINNER MEETING

We will keep you informed via e-blasts and/or notices posted on our website at *ascehawaii.org* with the August meeting information and schedule.
 Cost: (RSVP via Eventbrite)

ASCE's COVID-19 RESOURCES PAGE

<https://collaborate.asce.org/covid-19/home>
 Reminder that ASCE has launched a COVID-19 resources page with online tools and tips in one convenient place. The page includes links to free programs, training, and resources, the results of COVID-19 industry impact surveys, and relevant online discussions with fellow members. The page also offers several ways to work more effectively while at home and activities to take advantage of in the down time you may have – even fun things to do with the keiki! And don't forget that all members have 10 free PDHs! Now may be a good time to catch up on some of those technical on-demand webinar.

COMMITTEE POSITIONS

ASCE Hawaii is looking for volunteers for various committee positions, including Advocacy Captain, Report Card Committee Members, and Water Resources Chairperson. If you are interested or have questions on any of these positions, please contact President Reyn Hashiro, *rhashiro@ascehawaii.org*.

MEMBERSHIP

If you haven't already done so, please renew your ASCE membership, which includes 10 free PDHs. You can renew your membership at www.asce.org.

ASCE HAWAII SECTION STUDENT SCHOLARSHIPS

Please help us increase our scholarship endowment so that we can recognize deserving students. We continue to accept tax-deductible donations with the goal of increasing the annual scholarships. Make your check payable to 'ASCE Hawaii Section' and include the note 'Walter Lum Scholarship Fund' and mail to: ASCE Hawaii Section, P.O. Box 917, Honolulu, HI 96808-0917. If you have any questions, please contact Steven Doo at *sdoo@ascehawaii.org*.

ASCE GOLF TOURNAMENT

Save the date for this year's tournament, currently planned to be on Friday, August 4, 2023.

continued on page 5



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References

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O Energy Information Administration (EIA) Form 923. <https://www.eia.gov/electricity/data/eia923/>

O Anggraeni, Ike & Nurrachmawati, Annisa & Ifroh, Riza & Anwar, Andi & Siswanto, Siswanto. (2019). ENVIRONMENTAL QUALITY ON SURROUNDING COMMUNITY OF COAL MINING AREA IN SAMARINDA, EAST KALIMANTAN, INDONESIA. Public Health of Indonesia. 5. 91-98. 10.36685/phi.v5i4.270.

O EPA Greenhouse Gas Equivalencies Calculator. Available at: <https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator>

O Emissions & Generation Resource Integrated Database (eGRID) U.S. Environmental Protection Agency, Office of Air and Radiation, Available at <https://www.epa.gov/eGRID>

O Committee on Energy & Environmental Protection, Committee Report on S.B. No. 2629, S.D. 2 Second Reading https://www.capitol.hawaii.gov/session2020/CommReports/SB2629_HD1_HSCR1197-20_.htm

O Hawaiian Electric Companies PSIPs Update Report, p. ES-5

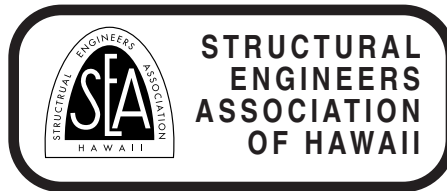
ASCE, from Page 4

ASCE JOB LISTINGS

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

- **AECOM** (Civil Engineer II)
- **Bowers & Kubota** (Civil Designer III, Civil Engineer, Project Engineer, Project Manager, Senior Project Manager)
- **Brown and Caldwell** (Senior Staff Engineer)
- **City and County of Honolulu** (Civil Engineer III, IV, V, Civil Engineer V (Geotechnical), & Electrical Engineer V)
- **Gray Hong Nojima & Associates, Inc.** (Junior Civil Engineer)
- **G70** (Civil Designer, Civil Engineer, Civil Project Manager, Construction Manager)

- **HDR** (Hawaii/Pacific Transportation Business Group Manager, Senior Civil Engineer, Project Manager, Civil Project Engineer)
 - **Hawaii Housing Finance and Development Corporation** (Section Chief)
 - **Kennedy/Jenks Consultants** (Project Manager, Honolulu Staff Engineer, Hawaii Staff Engineer)
 - **Nagamine Okawa Engineers Inc.** (Structural Engineer)
 - **R.M Towill Corporation** (Assistant Engineer I, Assistant Engineer II, Civil Design Engineer, Design Visualizer 3D Modeler)
 - **SSFm** (Civil Engineer V, Structural Engineer IV)
 - **Stantec** (Account Manager/Engineer-Water)
- For further information, please visit <http://www.ascehawaii.org/job-listings.html>



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PREVIOUS BOD MEETING

September 7, 2022

General Membership Meetings/Technical Seminars/Events

For all events see seaoh.org. Look for email flyer for registration of upcoming events.

SEAOH Nominations

SEAOH will start looking for volunteers to

be a part of next year's Board of Directors. If interested or know someone that is, please contact any member of the board.

2022 SEA OH Scholarship Golf Tournament

This will be the 10th anniversary of the SEA OH golf scholarship tournament and is scheduled for Friday, 04 November at Ko Olina! Please check seaoh.org for information on the scholarship application. An email containing the entry form was sent to the membership in September. Please contact any member of the board if you have questions.

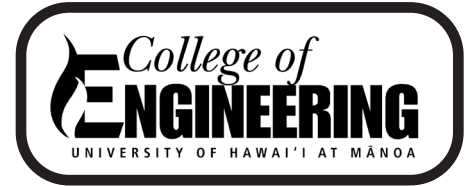
Recurring NCSEA Delegate

Mike Greer was voted in by the SEA OH BOD to be the Recurring NCSEA Delegate. Please contact any member of the board, to file any comments.

Interim Director

Brian Lott was voted by the SEA OH BOD to fill in a vacant Director position.

Next Meeting on Wednesday, October 5, 2022. For information, contact SEA OH President Craig Meierhoffer at cmeierhoffer@baseengr.com



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