



COLLEGE OF ENGINEERING
UNIVERSITY of HAWAII at MĀNOA

24TH ANNUAL BANQUET

4:30 - 6:30 PM

STUDENT PROJECT REVUE

...PLUS STUDENT ENTERTAINMENT!

6:30 - 7:00 PM

WELCOME & REMARKS

7:00 - 8:00 PM

DINNER & A SHOW

Outstanding Service Award – JEFF KALANI & RYAN YAMAUCHI

Distinguished Alumni Award – GOVERNOR DAVID IGE

Dean's Award of Excellence – EDWIN SNIFFEN

Featured Student Project – UH DRONE TECHNOLOGIES





UH College of Engineering Banquet

Plated Dinner Menu

Salad:

Maui Haku Lei Salad Kula Farms Hydro Greens, Puna Papaya, Surfing
Goat Cheese, Hearts of Palm, Local Radish, Shaved Beets
(AVG, NF, EF)
Papaya Seed Dressing

Freshly Baked Taro Rolls, Butter

Choice of one Entrée

Duet Entrée:

Tender Beef Braised Short Rib with Spinach Luau & Macadamia Nut
Crusted Fresh Catch with Lilikoi Butter Sauce, Maui Heirloom Carrots,
Kalo Sweet Potato Cake

Vegan/Vegetarian Entrée:

Vegetarian Oven Roasted Taro, Sweet Potato, Pumpkin, Local
Vegetables, Multi Grain Brown Rice with Spinach Luau
(AVG, NF, EF, DF)

Dessert:

Waiialua Chocolate Mousse, Macadamia Nut Crumble

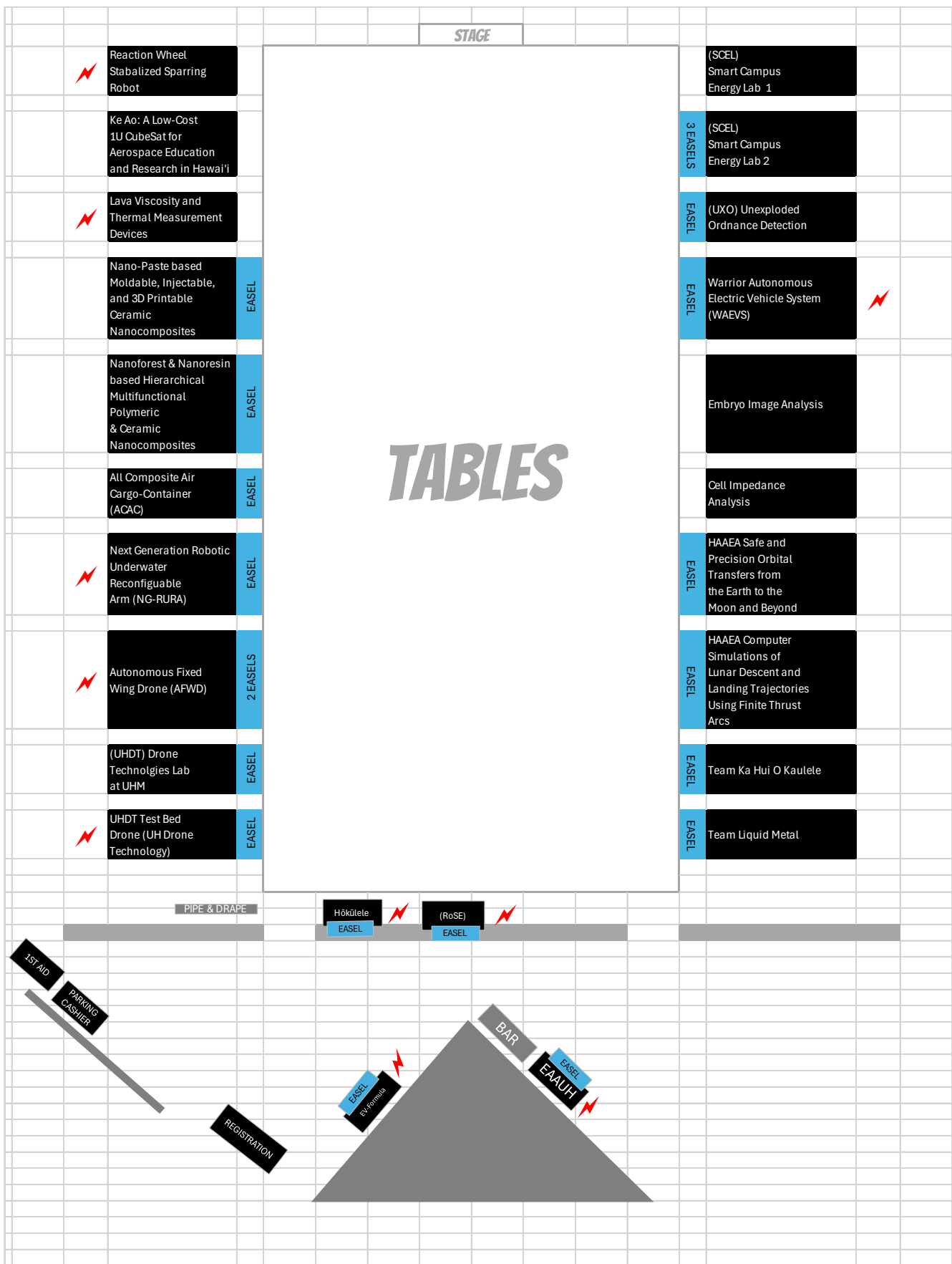
Iced Water
Island Coffee and Hot Tea Service

TABLE MAP

LEGENDS			HEROES			CHAMPS			STAGE														
A	Central Pacific Bank	Hawaiian Dredging2	Hawaiian Dredging1	Community Planning	AECOM	InSynergy	KSF, Inc.	Yogi Kwong	AC Kobayashi	Hunt	Wilson Okamoto	Swinerton											
	24	23	22	21	20	19	18	17	16	15	14	13											
B	Mitre	Jayar Construction	Bow CM	ParEn2	ParEn1	Honua Consulting	Royal Contracting	QRSE1	QRSE2	QRSE3	Castle & Cooke	Gentry											
	25	26	27	28	29	30	31	32	33	34	35	36											
C	Wes Segawa	Coffman	Electricians Inc	Hawaiian Cement	R.M. Towill	KAI Hawaii	David Ige	Okahara	First Hawaiian Bank	EnviroServices	Goodfellow	Nordic PCL											
	48	47	46	45	44	43	42	41	40	39	38	37											
D	JABSOM	HC&D	Koga	Clay Asato & Glenn Nohara	Moss	Stanford Carr	Ron Ho 1	Ron Ho 2	Par Pacific	Bowers + Kubota	Fukunaga	WSP											
	49	50	51	52	53	54	55	56	57	58	59	60	61	62									
F	CoE students	Mechanical Enterprises	Burns n' Mac	G70	Gray, Hong Nojima	ABB/Grace Pacific	David Lassner	HEI	Akinaka	Oceanit	Hbasi	Aqua	Hirata	CoE students									
	76	75	74	73	72	71	70	69	68	67	66	65	64	63									
G	CoE students	Manageability	J. Uno	Hawaiian Telcom	HDR 1	HDR 2	Element Environmental	Queens	Maunakea Observatories	Geolabs	Austin Tsutsumi	Eng. Concepts	CoE students	CoE students									
	77	78	79	80	81	82	83	84	85	86	87	88											
H	CoE students	CoE Staff1	ESH	Frank Coluccio	Kiewit	Hensel Phelps1	Hensel Phelps2	Jacobs	Limtiaco	Wasa	CoE students	CoE students											
	100	99	98	97	96	95	94	93	92	91	90	89											
I	HI Eng. Services (donated)	CoE students	CoE students	CoE Staff2	Individuals 2	Individuals 1	EAAUH	CoE students	CoE students	CoE students	CoE students	CoE students											

TABLE NO.	COMPANY	TABLE NO.	COMPANY	TABLE NO.	COMPANY
5	AECOM	35	Goodfellow Bros., Inc.	85	Limtiaco Consulting Group, The
57	Akinaka & Associates, Ltd.	53	Gray, Hong, Nojima & Associates, Inc.	75	Manageability LLC
9	Albert C. Kobayashi, Inc.	59	Hawai'i Gas	68	Maunakea Observatories
54	Alexander & Baldwin, Inc./Grace Pacific	28	Hawaiian Cement	50	Mechanical Enterprises, Inc.
60	Aqua Engineers, Inc.	3	Hawaiian Dredging 1	24	Mitre
66	Austin, Tsutsumi & Associates, Inc.	2	Hawaiian Dredging 2	44	Moss Construction
22	Bow Construction Management	56	Hawaiian Electric Industries	36	Nordic PCL Construction, Inc.
39	Bowers + Kubota Consulting	73	Hawaiian Telcom, Inc.	58	Oceanit
51	Burns & McDonnell	47	HC&D	32	Okahara & Associates
14	Castle & Cooke	72	HDR1	40	Par Pacific
1	Central Pacific Bank	71	HDR2	20	ParEn1
45	Clay & Glenn	82	Hensel Phelps1	21	ParEn2
26	Coffman Engineers, Inc.	83	Hensel Phelps2	17	QRSE1
4	Community Planning & Engineering, Inc.	61	Hirata & Associates, Inc.	16	QRSE2
55	David Lassner	19	Honua Consulting	15	QRSE3
100	Donated by Hawai'i Engineering Services	10	Hunt Company, The	69	Queen's Medical Center, The
27	Electricians, Inc.	31	Ige Family Charitable Foundation	29	R.M. Towill Corporation
70	Element Environmental	95	INDIVIDUALS 1	42	Ronald N.S. Ho & Associates1
94	Engineering Alumni Association of the University of Hawai'i	96	INDIVIDUALS 2	41	Ronald N.S. Ho & Associates2
65	Engineering Concepts, Inc.	6	InSynergy Engineering, Inc.	18	Royal Contracting
79	Engineers Surveyors Hawai'i, Inc.	74	J. Uno & Associates	43	Stanford Carr Development, LLC
34	EnviroServices	48	JABSOM	12	Swinerton Builders
33	First Hawaiian Bank	84	Jacobs	86	Wasa Electrical Services, Inc.
80	Frank Cotuccio Construction Company	23	Jayar Construction Co., Inc.	25	Wesley R. Segawa & Associates, Inc.
38	Fukunaga & Associates, Inc.	30	KAI Hawai'i	11	Wilson Okamoto Corporation
52	G70	81	Kiewit	37	WSP USA Inc.
13	Gentry Homes, Ltd.	46	Koga Engineering & Construction, Inc.	8	Yogi Kwong Engineers, Inc.
67	Geolabs	7	KSF, Inc.		

STUDENT PROJECTS



STUDENT PROJECTS

PROJECT NAME	DESCRIPTION
(SCEL) Smart Campus Energy Lab	The overall goal is to build an environmental sensor network that monitors and relays reliable weather data to help integrate renewable energy sources and use demand response algorithms.
(UHDT) Drone Technologies Lab at University of Hawaii at Manoa	Create an Autonomous Unmanned Aerial System (UAS), Autonomous Air Delivery System, and Autonomous Image Processing System.
(UXO) Unexploded Ordnance Detection	Investigate and improve current methods for detection of unexploded weapons of war in the Hawaiian islands.
All Composite Air Cargo-Container (ACAC)	Development of All Composites Air Cargo-Container to be used primarily as a Unit Load Device (ULD) to contain passengers' suitcases on commercial airliners.
Autonomous Fixed Wing Drone (AFWD)	Development of an Autonomous Fixed Wing Drone with VTOL (Vertical Take-off & Landing) capability for autonomous surveillance and data mapping.
Cell Impedance Analysis	Using the impedance of a cell to analyze different characteristics such as health, growth patterns, count, etc.
EAAUH (Engineering Alumni Association of the University of Hawai'i)	EAAUH's purpose is to assist the College of Engineering in attaining its objectives by sponsoring, funding, and assisting the College's educational, research, and development programs.
Embryo Image Analysis	Using machine learning to analyze microscopic images of cells.
HAAEA Computer Simulations of Lunar Descent and Landing Trajectories Using Finite Thrust Arcs	Creating a computer simulation for the descent and landing trajectories for a mission to land on the moon.
HAAEA Safe and Precision Orbital Transfers from the Earth to the Moon and Beyond	We are providing simulations of orbital transfers that represent a rocket going from the Earth to the Moon.
Ke Ao: A Low-Cost 1U CubeSat for Aerospace Education and Research in Hawai'i	Designing a low-cost flight-ready CubeSat kit designed to carry payloads and perform experiments in orbit.
Lava Viscosity and Thermal Measurement Devices	Designing an improved lava viscometer.
Nanoforest & Nanoresin based Hierarchical Multifunctional Polymeric & Ceramic Nanocomposites	Development of Nanoforest & Nanoresin based Hierarchical Multifunctional Polymeric & Ceramic Nanocomposites.
Nano-Paste based Moldable, Injectable, and 3D Printable Ceramic Nanocomposites	Development of Nano-Paste based Moldable, Injectable, and 3D Printable Ceramic Nanocomposites.
Next Generation Robotic Underwater Reconfigurable Arm (NG-RURA)	Development of the Next Generation Robotic Underwater Reconfigurable Arm to be attached to an existing Underwater ROV (Remotely Operated Vehicle) for objects grabbing and retrieving underwater at 50-foot depth.
Reaction Wheel Stabilized Sparring Robot	Punching bag robot that uses control of braking of colinear reactionwheels for stabilization.
Robotics Space Exploration (RoSE)	A competition rover which manipulates objects, maintains equipment, analyzes soil, and autonomously navigates.
RWR FSAE EV-Formula	Development of All Electric Formula Style Racing Car to participate in June 2024 FSAE National Competition.
Team Hōkūlele	Design, build, and test a high powered two stage rocket to fly 25,000 feet and deploy a payload to compete in a national competition.
Team Ka Hui O Kaulele	Team must engineer a rocket capable of deploying a drone at apogee, facilitating controlled descent and precise landing, while meeting specific requirements.
Team Liquid Metal	Designing, fabricating, and analyzing an IRS using liquid metal to make reconfigurable electronics.
UHDT Test Bed Drone (University of Hawaii Drone Technology)	Development of Smaller Scale & Lighter UHDT to function as the Test Bed for the Main UHDT Drone to participate in June 2024 National Competition.
Warrior Autonomous Electric Vehicle System (WAEVS)	Create an Autonomous electric vehicle that can carry 300 lbs of cargo around UH Manoa's upper campus.

ENTERTAINERS



Jameel-Carlo Evangelista

Dancer
Major: ME

Kadence Cachola

Dancer
Major: Political Science & Hawaiian Studies

Isaiah Ganir Gasilio

Dancer
Major: Japanese



Cara De Leon

Musician
Major: CECE



Kamauaokaloha Beaudet

Musician
Major: CECE

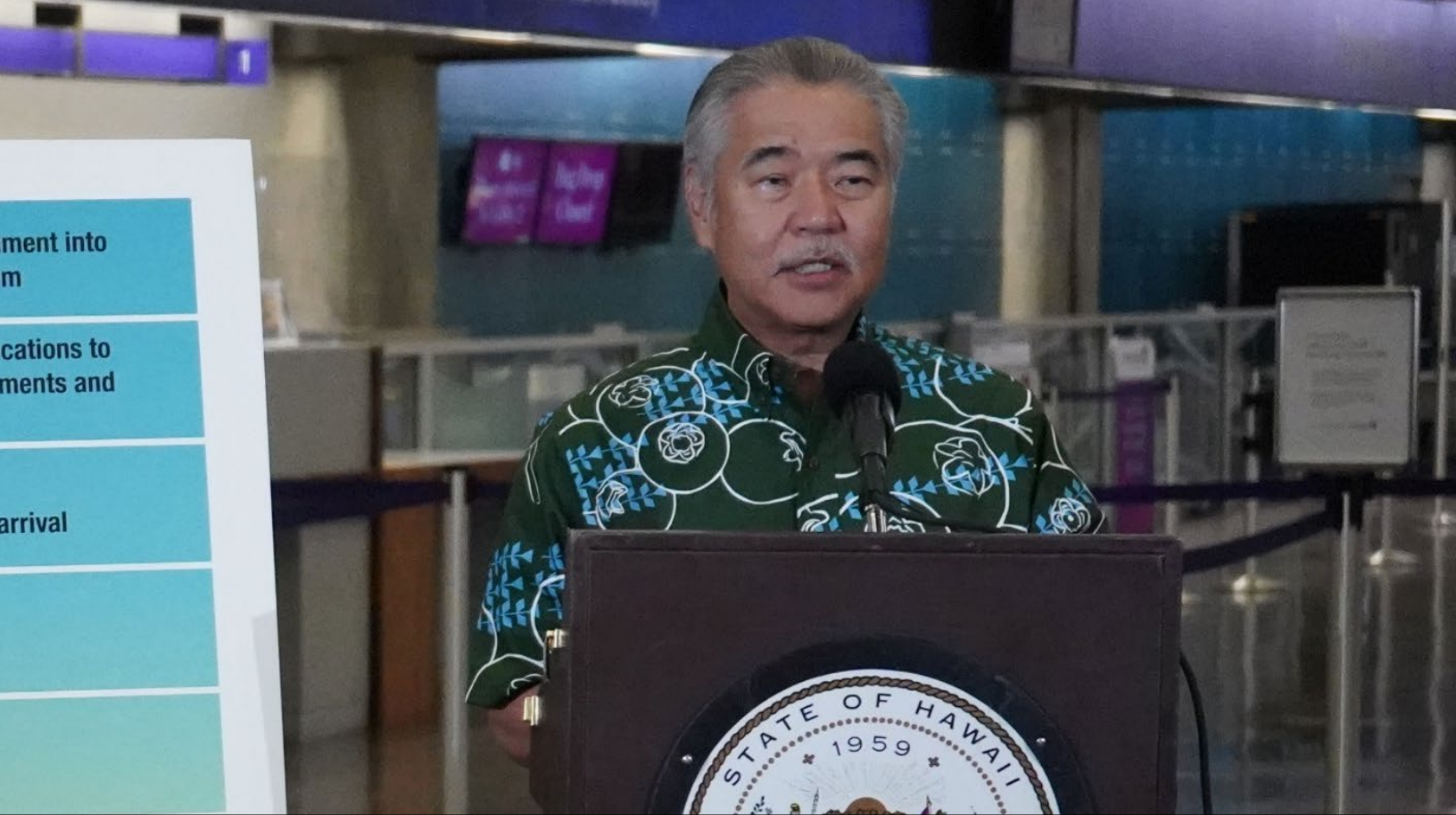


OUTSTANDING SERVICE AWARD

Jeff Kalani & Ryan Yamauchi

Jeff Kalani and Ryan Yamauchi are University of Hawai‘i at Mānoa alumni who played significant roles as industry leaders in raising more than \$700,000 to upgrade the civil and environmental engineering labs at UH Mānoa. This fundraising effort, driven by their tireless efforts, led to the upgrade of six labs which were renamed to reflect their industry sponsors. These labs include the SSFM Structures Lab, Bowers + Kubota Lecture Hall, Jacobs Traffic and Transportation Lab, YKE Geotechnical Testing Lab, GCA Hawaii and HC&D Concrete and Materials Lab, and Element Environmental and AECOM Environmental Lab.

Ryan Yamauchi (President of Element Environmental) and Jeff Kalani (President/CEO of Yogi Kwong Engineers) were instrumental in the success of this campaign. The funds raised from this campaign are designated for various lab needs such as equipment purchases, repairs, software, and facilities upgrades. For instance, the Jacobs Traffic and Transportation Lab plans to use the funds for purchasing high-performance computer stations, traffic simulation software, and portable traffic data analysis devices. Meanwhile, the SSFM Structures Lab is acquiring testing equipment including a seismic shake table for educational purposes.



DISTINGUISHED ALUMNI AWARD

DAVID IGE

Former Governor David Ige's educational journey is a cornerstone of his professional and political life, deeply influencing his approach to leadership and governance. He embarked on his academic career at the University of Hawai'i at Mānoa, a reputable institution that laid the foundation for his future endeavors. There, Ige completed his undergraduate studies in Electrical Engineering, a discipline that equipped him with a robust analytical framework and a problem-solving mindset. These skills proved invaluable in navigating the complexities of public administration and policy-making. Further enriching his academic portfolio, Ige pursued a Master of Business Administration (MBA) from the same university. This advanced degree complemented his engineering background with a strong grasp of management principles, strategic planning, and financial acumen.

The combination of technical expertise and business knowledge has been a hallmark of Ige's career, allowing him to tackle a wide range of challenges from a holistic and informed perspective. Throughout his tenure in public service, including his two terms as Governor of Hawai'i, Ige's decisions and policies reflected his educational grounding. Whether addressing the state's energy needs, managing public health crises, or steering economic development, his engineering and business education were evident in his methodical approach and emphasis on sustainable, technology-driven solutions. Governor Ige's commitment to leveraging his academic background for the betterment of Hawai'i underscores the profound impact of education on individual capabilities and societal contributions.



DEAN'S AWARD OF EXCELLENCE

EDWIN SNIFFEN

Edwin Sniffen has been the Director of the Hawai'i Department of Transportation (HDOT) since 2023. His leadership is part of a broader team that includes various deputy directors focusing on administration, harbors, highways, and airports. The priorities outlined for HDOT under Sniffen's direction through 2026 encompass improving safety, the preservation and resilience of the transportation system, supporting housing with infrastructure improvements, increasing energy and food security, adapting to climate change, addressing the cost of living and economy, and ensuring the sustainability of transportation funding. His appointment as the director was one of the first cabinet selections announced by Hawai'i Governor-elect Josh Green in December 2022. Governor Green emphasized the appointment of high-caliber individuals with strong expertise in their fields, aiming to confront challenges and enact change within the state.

DRONE TECHNOLOGIES

STUDENT FEATURE

The University of Hawai'i Drone Technologies (UHDT) is a Vertically Integrated Project that focuses on the development and application of drone technology. Founded in 2014, UHDT has grown into a multi-disciplinary team of eighteen students from various majors and grade levels. The team competes annually in the Association for Unmanned Vehicle Systems International Student Unmanned Aerial Systems (AUVSI SUAS) Competition, which involves tasks such as search and rescue, flying to waypoints, avoiding virtual objects, and delivering payloads. UHDT has made significant achievements, including developing an accurate geotagging formula and aiming for in-flight autonomous target detection and classification. UHDT's work extends beyond competitions; the team explores the use of unmanned aerial systems (UAS) in search-and-rescue (SAR) operations, particularly relevant for Hawaii's remote location. The team's innovations are tested in international competitions simulating SAR missions, challenging them to design UAS capable of autonomous flight, navigation, target acquisition, and package delivery. UHDT has shown impressive performance in these competitions, including finishing sixth out of 54 international teams in their second year of competition. Their work also includes designing a UAS package-delivery system for maritime vessels, indicating the practical applications of their research and development efforts. Team members are involved in various subsystems, contributing to areas such as UAV software and image processing. Leadership and teamwork skills are emphasized, alongside technical development. The experience gained through UHDT prepares students for future careers in engineering and technology fields, fostering a collaborative and innovative environment.

MAHALO PIHA!

...to the gracious sponsors of our 24th annual Banquet!

LEGENDS

Honua Consulting
InSynergy Engineering, Inc.

KSF, Inc.
Royal Contracting

HEROES

AECOM
Albert C. Kobayashi, Inc.
Bow Construction Management
Community Planning & Engineering, Inc.
Ige Family Charitable Foundation
Electricians, Inc.
EnviroServices & Training Center, LLC
First Hawaiian Bank
Hawaiian Cement
Hawaiian Dredging Construction Company, Inc.
Hawaiian Electric Industries

Hunt Company, The
KAI Hawai'i
Moss Construction
Okahara & Associates
Par Pacific
ParEn
QRSE
R.M. Towill Corporation
Ronald N.S. Ho & Associates
Stanford Carr Development, LLC
Yogi Kwong Engineers, Inc.

CHAMPIONS

Akinaka & Associates, Ltd.
Alexander & Baldwin, Inc./Grace Pacific
Aqua Engineers, Inc.
Austin, Tsutsumi & Associates, Inc.
Bowers + Kubota Consulting
Burns & McDonnell
Castle & Cooke Homes Hawai'i, Inc.
Central Pacific Bank
Clay & Glenn
Coffman Engineers, Inc.
David Lassner
Element Environmental
Engineering Alumni Association of the
University of Hawai'i
Engineering Concepts, Inc.
Engineers Surveyors Hawai'i, Inc.
Frank Coluccio Construction Company

Fukunaga & Associates, Inc.
G70
Gentry Homes, Ltd.
Geolabs
Goodfellow Bros., Inc.
Gray, Hong, Nojima & Associates, Inc.
Hawai'i Engineering Services
Hawai'i Gas
Hawaiian Dredging Construction
Company, Inc.
Hawaiian Telecom, Inc.
HC&D
HDR
Hensel Phelps
Hirata & Associates, Inc.
J. Uno & Associates
Jacobs

Jayar Construction Co., Inc.
John A. Burns School of Medicine
Kiewit
Koga Engineering & Construction, Inc.
Limtiaco Consulting Group, The
Manageability LLC
Maunakea Observatories
Mechanical Enterprises, Inc.
Mitre
Nordic PCL Construction, Inc.
Oceanit
Queen's Medical Center, The
Swinerton Builders
Wasa Electrical Services, Inc.
Wesley R. Segawa & Associates, Inc.
Wilson Okamoto Corporation
WSP USA Inc.



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