



COLLEGE OF ENGINEERING

UNIVERSITY of HAWAII at MĀNOA

# 25TH ANNUAL BANQUET

4:30 - 6:30 PM

STUDENT PROJECT REVUE

6:30 - 7:00 PM

WELCOME & REMARKS

7:00 - 8:00 PM

DINNER & A SHOW

Outstanding Service Award – Michael Magaoay

Distinguished Alumni Award – Alan Arakawa

Dean's Award of Excellence – Colton Ching

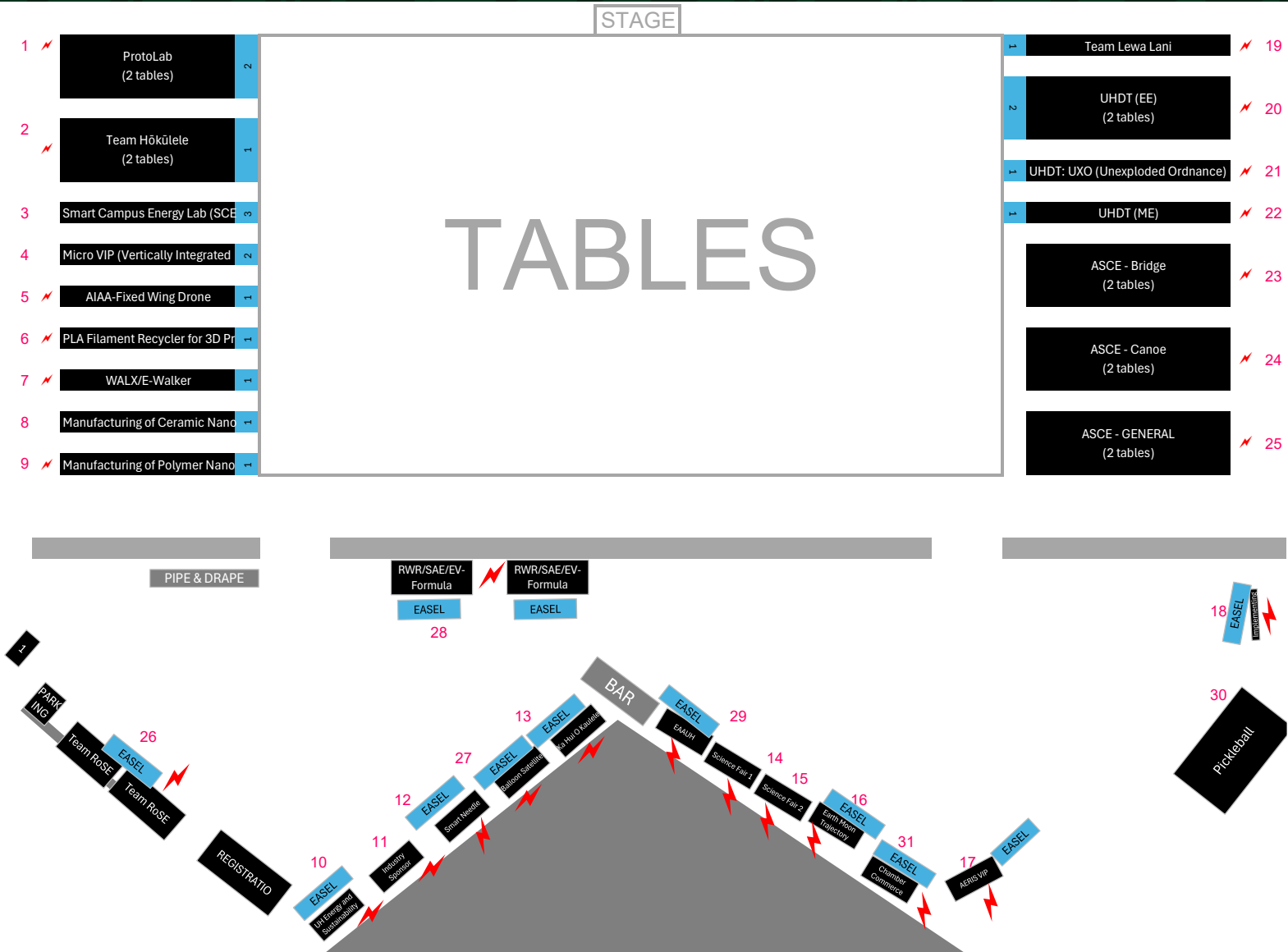
Featured Student Project – UH Chapter of ASCE



	0	1	2	3	4	5	6	7	8	9	10	11
	LEGENDS	HEROES	CHAMPS	STAGE								
A	1▼ CoE	2▼ Hawaiian Dredging2	3▼ Hawaiian Dredging1	4▼ Community Planning	5▼ AECOM	6▼ InSynergy	7▼ Yogi Kwong	8▼ Wilson Okamoto	9▼ AC Kobayashi	10▼ Hunt	11▼ Hensel Phelps	12▼ CoE
B	24▼ CoE	23▼ Jayar Construction	22▼ Bow CM	21▼ ParEn2	20▼ ParEn1	19▼ Wasa	18▼ HEI	17▼ QRSE1	16▼ QRSE2	15▼ Swinerton	14▼ Moss	13▼ CoE
C	25▼ Central Pacific Bank	26▼ PBR Hawai'i	27▼ Fukunaga	28▼ Hawai'i Gas	29▼ R.M. Towill	30▼ Stanford Carr	31▼ KAI Hawai'i	32▼ Okahara	33▼ First Hawaiian Bank	34▼ ATA	35▼ WSP	36▼ EAAUH
D	48▼ Frank Coluccio	47▼ HC&D	46▼ Koga	45▼ Clay Asato & Glenn Nohara	44▼ Castle & Cooke	43▼ Mike Magaoay	42▼ Ron Ho 1	41▼ Ron Ho 2	40▼ Jacobs	39▼ Bowers + Kubota	38▼ Limtiaco	37▼ AWP Safety
F	49▼ CoE	50▼ CoE	51▼ Mech. Enterprises	52▼ Burns n' Mac	53▼ Gray, Hong Nojima	54▼ Immersive Worlds	55▼ HDR1	56▼ HDR2	57▼ Hirata	58▼ Gentry	59▼ CoE	60▼ CoE
G	72▼ CoE	71▼ CoE	70▼ G70	69▼ Oceanit	68▼ Element Environmental al	67▼ Akinaka	66▼ Geolabs	65▼ Nordic PCL	64▼ Eng. Concepts	63▼ HI Eng. Services	62▼ CoE	61▼ CoE
H	73▼ CoE	74▼ CoE	75▼ CoE	76▼ CoE	77▼ CoE	78▼ J. Uno	79▼ Individuals 1	80▼ Inviduals 2	81▼ CoE	82▼ CoE	83▼ CoE	84▼ CoE
I							90▼ CoE	89▼ CoE	88▼ CoE	87▼ CoE	86▼ CoE	85▼ CoE

ORGANIZATION	TABLE NO.	ORGANIZATION	TABLE NO.	ORGANIZATION	TABLE NO.	ORGANIZATION	TABLE NO.
AC Kobayashi	9	CoE	61	Hawai'i Gas	28	Moss	14
AECOM	5	CoE	62	Hawaiian Dredging1	3	Nordic PCL	65
Akinaka	67	CoE	71	Hawaiian Dredging2	2	Oceanit	69
ATA	34	CoE	72	HDR1	55	Okahara	32
Bow Construction Management	22	Community Planning & Engineering	4	HDR2	56	ParEn1	20
Burns & McDonnell	52	EAAUH	36	HEI	18	ParEn2	21
Central Pacific Bank	25	Element Environmental	68	Hensel Phelps	11	PBR Hawai'i	26
CoE	59	Engineering Concepts	64	HI Eng. Services	63	QRSE1	17
CoE	1	First Hawaiian Bank	33	Hirata	57	QRSE2	16
CoE	12	Frank Coluccio Construction Company	48	Hunt	10	R.M. Towill	29
CoE	13	Fukunaga & Associates	27	Immersive Worlds	54	Stanford Carr	30
CoE	24	G70	70	InSynergy	6	Swinerton	15
CoE	49	Gentry	58	Jayar Construction	23	Wasa	19
CoE	50	Geolabs	66	KAI Hawai'i	31	Wilson Okamoto	8
CoE	60	Gray, Hong, Nojima & Associates	53	Mech. Enterprises	51	WSP	35
						Yogi Kwong	7

# STUDENT PROJECTS



Support your favorite student projects by donating to them live tonight! A donation of any size counts. The top 3 projects that receive the most donations by the end of the evening receive an additional cash prize from the Dean's Office! (1st place \$500; 2nd place \$250; 3rd place \$100)

<https://hui.uhfoundation.org/project/46432>





# STUDENT PROJECTS

TABLE	NAME	DESCRIPTION
1	ProtoLab	Through additive manufacturing processes, ProtoLab supports student and faculty research, design, and development across a wide range of mechanical engineering projects.
2	Team Hōkūlele	Team Hōkūlele's mission is to design, manufacture, launch, and recover a high-powered rocket with a target altitude of 25,000 feet in accordance with the Friends of Amateur Rocketry (FAR) FAR-Unlimited Competition requirements.
3	Smart Campus Energy Lab (SCEL)	The Smart Campus Energy Lab (SCEL) is working to design and create weatherboxes to monitor environmental data which will be used to assist with the university's energy and sustainability goals.
4	Micro VIP (Vertically Integrated Project)	The Micro VIP team works on microsystems, including microfluidic impedance sensors and image segmentation of cells.
5	AIAA-Fixed Wing Drone	To design, analyze, build, test, fly a functional Electric Fixed Wing Drone based on the AIAA National Rules & Guidelines.
6	PLA Filament Recycler for 3D Printing	To design, analyze, build, and test, a functional PLA Filament Recycler for 3D Printing
7	WALX/E-Walker	To design, analyze, build, and test, a Electrical Walker to Assistent Patients after Surgery during their Recovery
8	Manufacturing of Ceramic Nanocomposites employing Nano-Paste and 3D Printing Technology (HNL)	To Manufacture Advanced Ceramic based Nanocomposites employing Graphene and Nano-Particle based Nano-Paste Technology
9	Manufacturing of Polymer Nanocomposites employing Nanoforest Technology (HNL)	To Manufacture Advanced Polymer based Nanocomposites employing Carbon-Nanotube based Nanoforest Technology
10	UH Energy and Sustainability	UH Energy and Sustainability supports the university's commitment to achieving net-zero energy by 2035 and carbon neutrality by 2050 through hands-on projects.
11	Industry Sponsor Student Initiative	
12	Smart Needle	
13	Ka Hui O Kaulele	The UH Manoa team for the First Nation's Launch, Rocket Competition
14	Hawaii State Science Fair 1	
15	Hawaii State Science Fair 2 - Optimizing Tensile Strength Using Nozzle Diameters and Infill Patterns	In this project, we investigated which combination of nozzle diameter and infill pattern would optimize the highest tensile strength of 3D-printed material using a standardized dogbone sample for tensile testing.
16	Earth Moon Trajectory Design and Powered Descent Maneuvers for Moon Missions	To design trajectories for future moon missions.
17	AERIS VIP	The AERIS mission is a 6U-CubeSat designed to correlate flux in solar energetic particles with spectral variability in total reactive nitrous oxides (NOx) and ozone (O3) concentrations in the mesosphere.
18	Implementing SatNOGS Ground Stations for Satellite Tracking and Orbit Determination	Implementing satellite tracking ground stations as part of a distributed global tracking network to assist in determining satellite orbital parameters though signal acquisition and analysis
19	Team Lewa Lani	Team Lewa Lani's mission is to design, build, and test a functional CanSat. The team plans to compete in and win the 2025 CanSat competition on June 5-8, which will take place in Monterey, Virginia.
20	Drone Technologies	The objective of the VIP University of Hawai'i Drone Technologies (UHDT) initiative is to develop an autonomous Unmanned Aerial System (UAS), an autonomous Air Delivery System, and an autonomous Image Processing System capable of accurately delivering payloads to designated ground targets. Additionally, the UAS will incorporate a parachute recovery mechanism to reduce the potential for damage during emergency situations.
21	UHDT: UXO (Unexploded Ordnance) Team	Former military training sites scatter the Hawaiian islands, leaving dangerous unexploded weapons of war as their legacy. Our project aims to address the pressing issue of detecting unexploded ordnances (UXOs) in Hawaii's iron-rich volcanic soil, a challenge exacerbated by the presence of false positives from highly ferrous rocks.
22	Univerity of Hawaii Drone Technology, UHDT	To design, analyze, build, test, fly a functional Electric QuadCopter Drone based on the National QuadCopter Drone Competitions Rules and Regulations.
23	ASCE - Bridge	Design, fabricate, and construct a 20-foot bridge made entirely out of steel where the bridge is graded on maximizing the structural integrity while also optimizing the constructability of the bridge.
24	ASCE - Canoe	Construct a canoe with a lightweight and susaintable concrete mix design. The project is graded based on the final project prototype, project proposal, presentation, and racing performance
25	ASCE Hawaii Student Chapter	Student organization for civil engineering with teams for 10 technical projects, along with hosting various community service, social, outreach, and professional events for members
26	Team RoSE	Team RoSE competes in the international University Rover Challenge against over 120 other universities across the globe. The team focuses their efforts on developing a emulated Mars Rover to complete tasks parallel to real Mars missions.
27	University of Hawaii Advanced Balloon Satellite (UHABS-9)	UHABS-9, with the CORE VIP team, is a senior design team responsible for developing an autonomous ocean recovery vehicle for high-altitude balloon satellite payloads.
28	RWR/SAE/EV-Formula	To design, analyze, build, and test a functional All Electric Vehicle Formula Style Racing Car. The team plans to compete in and participate in the 2025 SAE EV-Formula competition in June 2025 in Michigan.
29	EAAUH	
30	Pickleball	
31	Chamber of Commerce Engineering Sector Partnership/ Kama'aina Come Home	

# ENTERTAINERS



Name: Eulamai Tingco  
Major: Civil Engineering  
Anticipated Graduation: Fall 2025  
Hometown: Ewa Beach  
High School: James Campbell



Name: Ryden Omine  
Major: Mechanical Engineering  
Anticipated Graduation: Fall 2026  
Hometown: Pearl City  
High School: Pearl City High School

## SPECIAL AWARDS



Distinguished Alumni Award  
**ALAN ARAKAWA, CE '86**

VP, Residential Operations  
Castle & Cooke Homes Hawai'i, Inc.



Outstanding Service Award  
**MIKE MAGAOAY, EE '76**

President  
MYM Services LLC



Dean's Award of Excellence  
**COLTON CHING, ME '90**

Senior VP, Planning & Technology  
Hawaiian Electric Company

So up next, we honor an alumnus who transformed his engineering roots into a lifelong mission of building vibrant and resilient communities across Hawai'i. His work has helped shape the places we live, and in doing so, he's shaping the people who grow up in them—laying the groundwork for future generations to thrive. His journey reflects the true spirit of what it means to be a leader shaped by engineering.

Please join me in welcoming this year's Distinguished Alumni Award recipient...  
**Alan Arakawa!**

This year's Outstanding Service Award goes to a man who's worn many hats—engineer, legislator, and community leader—but no matter the title, he's always served with integrity and compassion, just as he's done while voluntarily serving the College as chair of its Dean's Council.

Please join me in honoring the recipient of the Outstanding Service Award... The Honorable Michael Y. Magaoay!

Our final awardee this evening is someone whose unwavering support and quiet leadership have made a meaningful difference behind the scenes. His contributions have strengthened our community in ways that aren't always visible—but are deeply felt.

Please join me in congratulating this year's Dean's Award of Excellence recipient...  
**Colton Ching!**





## STUDENT FEATURE

The American Society of Civil Engineers (ASCE) student chapter at the University of Hawaii at Manoa is a proud organization geared towards promoting the civil engineering profession and providing a better understanding of the field outside of the classroom. From memorable socials and fundraisers to sharing triumphs in activities such as steel bridge and concrete canoe, the student chapter is ideal for meeting, as well as bonding with fellow aspiring civil engineers. Not only is the student chapter a prime source for developing new and lasting relationships, but it is also a gateway for expanding a student's network through frequent interactions with the ASCE Hawaii Section and the Young Member Forum (YMF). Inspirational speakers from an immense spectrum of engineering firms and companies also takes part in our general meetings to further educate and enlighten students about the civil engineering world.

The Pacific Southwest Symposium (PSWS), formerly known as the Pacific Southwest Conference (PSWC), held every spring, is an opportunity to display our hard work in competitions such as the concrete canoe and steel bridge competition. At the PSWS, the student chapter competes on a regional level in a variety of engineering-related events. These include the Concrete Canoe, Steel Bridge, Timber Strong Design Build, Surveying, and Sustainable Solutions. PSWS 2025 will be hosted at Cal Poly Pomona!

Through ASCE anything is possible. The knowledge and experience gained are empowering. The friendships are everlasting. The opportunities are endless.

# MAHALO

*...to the gracious sponsors of our 25th annual Banquet!*

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Hawaii Gas

Hawaiian Dredging Construction Company, Inc.

InSynergy Engineering, Inc.

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Yogi Kwong Engineers, Inc.

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G70

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Hawaii Engineering Services

Hawaiian Dredging Construction  
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HDR Engineering, Inc.

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Immersive Worlds

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