

Mahalo!



Acknowledgments

We are so grateful to all our donors for their support of the wonderful work of our students and faculty. A special mahalo to Dr. Lorenz and Ursula Maggaard and Dr. Fred and Judith Mackenzie for their support of GES since the beginning of the program.

GES SYMPOSIUM SUMMER 2017

Friday, August 11, 2017
2:00 - 4:00pm
Marine Science Building
Room 114
University of Hawai'i at Mānoa



Photo courtesy of Jenny Bernier ('13). Field trip to Volcanoes National Park, Hawaii.



Photo courtesy of McKenna Lewis ('18). Research cruise in Andvord Bay, Western Antarctica. November 2015.

Supporting Undergraduate Research

If you would like to support the Global Environmental Science Program, please consider making a donation online:

<https://giving.uhfoundation.org/funds/12721704>.



Photo courtesy of McKenna Lewis ('18). Research cruise in Andvord Bay, Western Antarctica. November 2015. McKenna ashore with a collaborator who is building an Automatic Weather Station to collect penguin droppings at a penguin colony and macroalgae.



About GES

The Dept. of Oceanography launched the undergraduate GES Program in 1998 with the generous support of the Pauley Foundation. The vision and brainchild of Emeritus Oceanography Professor Dr. Fred Mackenzie, the GES Program is known for its rigorous math and science foundation, integrated study of environmental- and sustainability-related issues, and faculty-mentored research thesis requirement. This research experience results in every GES graduate having completed a faculty-mentored research project, written a thesis, and presented their research results in a public forum. As a result of the challenging curriculum and research thesis requirements, GES graduates are well-prepared to enter the workforce in environmental science-related fields and industries or continue on to graduate studies in many different subjects in the sciences, social sciences, law, medicine, and engineering.

Contact GES

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GES Symposium

GES students presenting at this symposium conducted basic research, analyzed their results, and compiled their findings into a thesis format. Many theses are converted into peer-reviewed journal publications; a feat usually accomplished by students once in graduate school. The GES Symposium is a celebration and culmination of the GES student's undergraduate research efforts, so join us in supporting, engaging, and applauding today's presenters.

Agenda

2:00 – 2:10 Welcome & Opening Comments
2:10 – 3:15 Oral Presentations
3:15 – 4:00 Refreshments & Celebration

Oral Presentations

- 2:10** Rachel Chang
“Using Satellite Images to Study Temporal Changes in the Mississippi Delta”
Mentor: Peter Mougini-Mark (Hawaii Institute of Geophysics and Planetology)
- 2:30** Kainalu Ehman
“An Analysis of Automatic Identification System Data in Detecting Fisheries Movements in the Gulf of Mexico from the International Space Station”
Mentor: Margo Edwards (Hawaii Institute of Geophysics and Planetology)
- 2:50** Jana Phipps
“Seasonality in the Mesopelagic Micronekton Community at Station ALOHA in the North Pacific”
Mentor: Jeffrey Drazen (Oceanography)

Biographies



Rachel Chang

Mentor: Peter Mouginiis-Mark

Rachel was born in Kailua, HI and raised in Waimanalo. She came to UH in Fall 2010 and transferred from Mechanical Engineering to the GES Program in Fall 2013. Rachel has participated in the NASA Hawaii Space Grant Traineeship

while a student.



Kainalu Ehman

Mentor: Margo Edwards

Kainalu was born in Wailuku, Maui and raised in Haiku, Maui. He came to UH in Fall 2013 and transferred from Biology to the GES Program in Fall 2014. While in the program, Kainalu traveled to Houston, TX to present his project to JAMSS America and the Houston Coast Guard.



Jana Phipps

Mentor: Jeffrey Drazen

Jana was born in Washington State, and raised in Bothell, Washington. She came to UH in Fall 2013 and is a Marine Biology graduate as of Spring 2017. Jana has been on the Dean's List and participated in the last two NOAA Kona IEA cruises. She is

currently working at NOAA as a Research Assistant but plans to attend graduate school in the future.

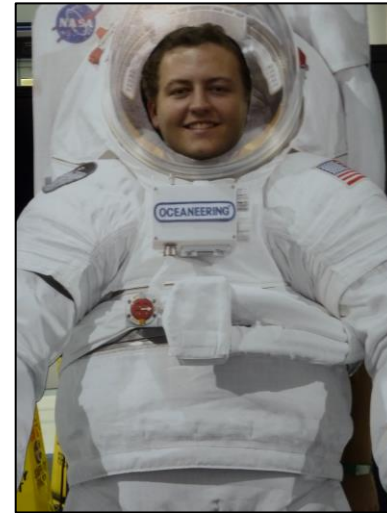


Photo courtesy of Jay Chitnis ('17). May 2016. Kainalu Ehman ('17) and his mentor, Dr. Margo Edwards of the Hawaii Institute of Geophysics and Planetology) traveled to Houston, Texas to present his research efforts as part of the NASA GLASS (Global AIS on Space Station) project.

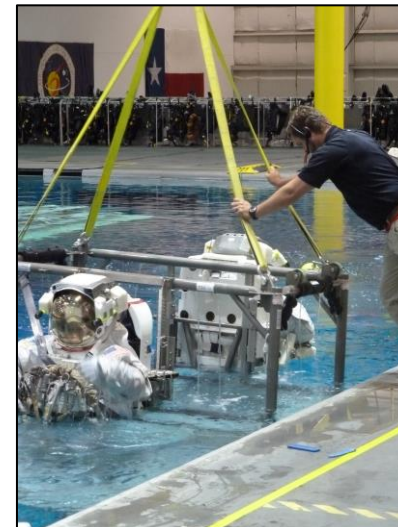


Photo courtesy of Jay Chitnis ('17). May 2016. In addition to presenting his early research efforts, Kainalu toured several NASA-related facilities including the Neutral Buoyancy Lab (NBL), which is where astronauts train for space walks, and had the opportunity to speak with astronaut and oceanographer Megan McArthur.