

Mahalo!



Ryan, Stephanie, Ed, and Shannon Laws (left to right order) at the establishment of the Global Environmental Science Endowed Scholarship.

Acknowledgments

Dr. Edward A. and Mrs. Stephanie S.L. Laws recently established the Global Environmental Science Endowed Scholarship to support undergraduate students in the Global Environmental Science program in the Department of Oceanography. The gift will provide standout GES students with tuition and other academic financial support, allowing them to focus on their studies, be rewarded for excellent work, and be able to take advantage of research opportunities for their faculty-mentored thesis projects.

GES SYMPOSIUM FALL 2018

Friday, December 7, 2018
11:00 am - 12:00 pm
Marine Sciences Building
Room 114
University of Hawai'i at Mānoa



Photo courtesy of Noah Howins. Noah ready to set sail aboard NOAA Ship Hi'ialakai as part of the WHOTS-14 research cruise. Photo credit: Kellen Rosberg.



Photo courtesy of Cuong Tran. As an education intern at the Old Woman Creek National Estuarine Research Reserve during summer 2018, Cuong took care of the animals in the Visitor Center. Photo credit: Leila Faulstich



Photo courtesy of Diana Lopera. During summer 2018, Diana was stationed at the Las Cruces Biological Station in San Vito, Costa Rica, where she searched for lizards on rock walls and under fallen logs, and brought them to the lab to test their response to short-term temperature test. Photo credit: Lindsey Swerk



Photo courtesy of Amanda Wong. Amanda looking for the invasive round goby in Cayuga Lake, New York. SEEDS SPUR Fellowships 2018 at Cornell University (Mentor: Dr. David Lodge) Photo credit: Amelia Weiss

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>



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

Dr. Michael Guidry, Chair
Lentina Villa, Student Services Specialist

Global Environmental Science Program
Department of Oceanography
1000 Pope Road, MSB 205
University of Hawai'i at Mānoa
Honolulu, HI 96822

(T) 808-956-2913
(F) 808-956-9225

Website: www.soest.hawaii.edu/oceanography/GES
Email: ges@soest.hawaii.edu
Facebook: www.facebook.com/uhmges

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 undergraduate research efforts and experiences, so join us in supporting, engaging, and applauding today's presenters.

Agenda

11:00 – 11:05 Welcome & Opening Comments
11:05 – 12:00 Oral Presentations
12:00 Refreshments

Oral Presentations

11:05 Tineill Dudoit

“The Use of Groundwater Geochemistry to Prospect for Blind Geothermal Resources in the State of Hawaii”

Mentor: Nicole Lautze (Hawai'i Institute of Geophysics and Planetology)

11:20 William Kelly

“Critical Review of Utilizing Constructed Wetlands to Sustainably Treat Petroleum Industry Wastewater”

Mentor: Michael Cooney (Hawai'i Natural Energy Institute)

11:35 Kayla Brignac

“Identification and Spatial Distribution of Plastic Marine Debris Polymers in the Hawaiian Islands: Beach, Sea Surface, and Seafloor”

Mentors: Jennifer Lynch (National Institute of Standards and Technology) and James Potemra (Hawai'i Institute of Geophysics and Planetology)

Biographies



Kayla Brignac

Mentors: Jennifer Lynch and James Potemra

Kayla was born in San Clemente, CA and raised in Oceanside, CA. She entered UH Mānoa and the GES program in Fall 2016. Since then, she has been on the Dean's List every semester and has been awarded the

SOEST Achievement Scholarship twice. In addition, Kayla is a two-time National Institute of Standards and Technology (NIST) Summer Undergraduate Research Fellow and an Undergraduate Research Opportunities Program (UROP) recipient. She is a member of the Golden Key International Honor Society and Society of Environmental Toxicology and Chemistry. Kayla has presented at four conferences, and has co-authored five conference abstracts and three publications. Kayla currently works for HPU and NIST as a Research and Laboratory Technician under Dr. Jennifer Lynch. After graduation, Kayla plans to publish her thesis findings and continue working for HPU and NIST, with eventual plans to pursue a doctoral degree.

Biographies continued



Tineill Dudoit

Mentor: Nicole Lautze

Tineill was born and raised in Waimanalo, HI. She entered UH Mānoa and the GES program in Spring 2014. She has been on the Dean's List every semester and is a member of several societies including Phi Theta Kappa/Alpha Kappa Psi Honor Society,

Golden Key International Honor Society, and Sigma Alpha Pi Honor Society. She also serves as the President of the American Water Works Association Student Chapter at UH Mānoa. Under the supervision of Dr. Marek Kirs, Tineill was an Assistant Researcher at the UHM Water Resources Research Center. She also attended the 2018 Pacific Water and Wastewater Conference in Noumea, New Caledonia. Immediately upon graduation, Tineill will be pursuing a Master of Science degree in Earth and Planetary Sciences at UH Mānoa, with a Concentration in Marine and Environmental Geology.



William Kelly

Mentor: Michael Cooney

William was born in Stockton, CA, and raised in Diamond Bar, CA. He entered UH Mānoa and the GES program in Fall 2016. William chose the GES program to better understand the environment. Further, being free to choose coupled courses allowed him to build his own

degree. After graduation, William plans to take a semester or two off before pursuing a master's degree, and to keep working in the interim.