

State News for NSPE Members

Meet the 2022 Scholarship Winners

The Hawaii Society of Professional wants to congratulate the 2022 HSPE Maui Chapter academic scholarship recipients—**Camry Gach** of Seabury Hall, **Joseph Winkie** of Lahainaluna High School, and **Tatum Okamoto** of Hawaii Community College.

The Maui Chapter offers \$1,500 academic scholarships to outstanding graduating high school seniors in Maui County or students currently enrolled at the University of Hawaii Community Colleges who will be attending an accredited college of engineering in the fall.

Camry Gach is the daughter of Barbara and Michael Gach of Kihei. Gach is interested in pursuing a degree in environmental engineering or energy resources engineering.



Joseph Winkie is the son of Rebecca and Hugh Winkie of Lahaina. Winkie is interested in pursuing a degree in computer software engineering or computer science engineering.



Tatum Okamoto is the daughter of Bonnie Irvine and Owen Okamoto. Okamoto is interested in pursuing a degree in biological engineering.



We congratulate all of the winners and wish them the best on their future endeavors! We know they have bright futures ahead and will continue their impressive contributions to the community and society.

Red Hill Storage Facility Permanently Closed by Pentagon

The Defense Department will defuel and permanently close the Red Hill bulk fuel storage facility in Hawaii, the [Pentagon announced](#) earlier this month. In addition, DOD will remove the fuel, clean up the Red Hill well, and develop an environmental mitigation plan to address any future contamination concerns.

The Navy's huge fuel tank facility in Hawaii leaked petroleum into Pearl Harbor's tap water. Nearly 6,000 were made ill and another 4,000 were displaced from their homes because of the leak. On March 10, 400,000 Oahu residents were asked to

cut their water use by 10% because of the forced closure of three wells due to the leak and concerns about dry weather.

Reportedly, a new expanded fuel storage system will be more cost effective and secure because it will spread the fuel supply more broadly across the region.

Hawaiian Engineering Firm Awarded DOE Offshore Renewable Energy Project

Makai Ocean Engineering, an ocean technology and engineering firm based in Hawaii, has been awarded about \$850,000 by the US Department of Energy to develop new mooring and anchoring methods to reduce the costs of offshore renewable energy.

The project will focus on enabling grid-scale floating offshore wind turbines and marine hydrokinetic systems to be deployed in areas that are inaccessible or too expensive using current technologies. The team's unique approach to remotely installing micropiles on the seafloor will enable installation of an anchorage strong enough to secure these systems.

This approach does not require large and costly equipment and vessels, dramatically reducing the initial installation costs, [Makai reports](#). The technology is ideal for Hawaii because it is best suited for hard seabed ground conditions, common in the waters surrounding the state.

The award received by Makai is part of the \$175 million awarded to 68 projects across 22 states "aimed at developing disruptive technologies to strengthen the nation's advanced energy enterprise."

EPA Lays Out Need for Resilient Infrastructure as Climate Change Poses Threat

The Environmental Protection Agency says climate change coupled with rising ocean levels will require coastal buildings to be moved inland, [Hawaii News Now reports](#).

The EPA [released a report](#) on March 10 saying homes like the ones at Rocky Point on Oahu's North Shore will need to be deconstructed and rebuilt as climate change generates more frequent natural disasters. The report also says communities should recycle and reuse storm debris to keep them out of landfills, which produce methane gas.

Stay up to date on legislative issues through the [NSPE Advocacy Center](#).

Meet the 2022 Federal Engineer of the Year



Robert Zueck, Ph.D., P.E., was named NSPE's [Federal Engineer of the Year](#) during a [virtual awards event](#) on February 24 for his discoveries and contributions in the engineering field. The Federal Engineer of the Year Award, sponsored by the Professional Engineers in Government, honors engineers employed by a federal agency that employs at least 50 engineers worldwide.

Zueck works in the US Department of the Navy's Naval Facilities Engineering Systems Command (NAVFAC), Expeditionary Warfare Center at Port Hueneme, California. He is heralded for applying his vibration research to military defense projects for which engineers can now design beyond the speed, agility, and stealth limitations of many military sensors, weapons, and platforms.

"Every success for me has come out of the hard teamwork of many fellow engineers and scientists," Zueck stated. "I thank them all—particularly those who provided valuable constructive criticism of my rather unique research results."

In a basic research project conducted several years ago, Zueck discovered how geometrically complex vibrations initiate, grow, and sustain themselves, often limiting higher performance for many combat systems. He used this new vibration knowledge to improve the Expeditionary Warfare Center's modeling capability for designing, analyzing, and deploying towed sensors, ship moorings, sub-sea arrays, and other slender naval structures.

"This basic science discovery could be very useful for modeling, simulating, and testing in many other fields of engineering and science," he said.

[Read more.](#)

Mark Your Calendars: 2022 Professional Engineers Conference



Harnessing the Power
of PEs to Create a
Better World



August
1-3
2022
Philadelphia, PA
Sheraton Philadelphia
Downtown

The 2022 NSPE [Professional Engineers Conference](#) will bring together professional engineers across disciplines from August 1–3, in Philadelphia at the Sheraton Philadelphia Downtown. Registration for the conference opens in April.

PECON attendees can access specialized content from experts as they discuss issues and trends impacting the profession, develop power skills and life skills not taught in school, and advance their careers by expanding their expertise and preparing for future developments in the industry.

The seventh annual [PE Day](#) will coincide with the conference's culmination on August 3. These two events allow PEs to join their peers in celebration of the profession and advocacy for licensure.

NSPE will continue to monitor health and safety guidelines while we proceed toward hosting this in-person event.

2022 NSPE Student Scholarships Available

Students can apply for the 2022 NSPE Education Foundation scholarships through a new [online submission platform](#). The following scholarships have an **April 1** application deadline:

The [Maureen L. and Howard N. Blitman, P.E., Scholarship to Promote Diversity in Engineering](#) is awarded annually to a high school senior from an ethnic minority who has been accepted into an ABET-accredited engineering program at a four-year college or university.

The [Auxiliary Legacy Scholarship](#) is awarded annually to a female undergraduate entering or continuing their junior year of a four-year ABET-accredited engineering program.

The [Steinman Scholarship](#) is awarded annually to undergraduates entering or continuing their junior year in a four-year ABET-accredited engineering program.

The [George B. Hightower, P.E. Fellowship](#) is awarded annually to a current engineering undergraduate or graduate student who is enrolled in, or graduated from, an ABET-accredited engineering program.

Coming soon! The [Swadesh and Om P. Popli, P.E., P.L.S. Scholarship](#) will be a multi-year scholarship, providing \$5,000 each year for the recipient's four-year education. Applicants must be a female high school senior from an ethnic minority pursuing a degree in engineering at an ABET-accredited program.

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