



# Supporting STEM in Our Communities Commitment to Education

SSFM RELIES ON THE STRENGTHS AND EXPERTISE OF HIGHLY TRAINED PROFESSIONALS. WE PLACE GREAT VALUE ON QUALITY EDUCATION AND HONOR THE ROLE OUR SCHOOLS AND EDUCATORS PLAY TO ELEVATE LEARNING. THE SSFM FAMILY HAS ALWAYS ENGAGED IN A VARIETY OF EDUCATIONAL PROGRAMS. WITH OUR TECHNICAL AND ENGINEERING FOCUS, WE ARE PARTICULARLY DEDICATED TO PROGRAMS THAT ADVANCE SCIENCE, TECHNOLOGY, ENGINEERING AND MATH (STEM).

We've asked our staff to tell us what they have been doing within the education community. We are impressed with their wide ranging volunteer efforts and the significant impact they are making in elementary and high schools, universities, and associations within our communities. We trust they are also fostering interests that will someday add to a new generation of SSFM professionals.

## In Our Universities

SSFM has long been committed to supporting the University of Hawaii Engineering program. Each year we participate in the UH Industry Challenge. High school students who are interested in pursuing an engineering career path join in a month long program to complete a "real-world" challenge designed by industry professionals. Projects are presented at UH, judged by practicing professional and awards are given to the winning teams.



SSFM recently provided \$261,263 to fund 4 full 4 year undergraduate scholarships in Civil and Environmental Engineering, and a 4 year Graduate Fellowship in Urban and Regional Planning for the UH Manoa College of Engineering and College of Social Sciences.

## OTHER ENGAGEMENTS

- I am Vice President and President Elect of the Engineer Alumni Association of the University of Hawaii. (Tony Peresa)
- I serve on the University of Hawaii Advisory Counsel to vet and select the new Dean of College of Engineering. (Tony Peresa)
- SSFM participates in the UH College of Engineering Industry Challenge where students have a month to complete a "real-world" challenge. Projects are judged at UH with awards presented to the winning teams. (Amy Salvador)
- SSFM participates in the UH College of Engineering Career Fair each semester. (Amy Salvador)

## In Our High Schools

The Tiny House Design Challenge introduces high school students to our profession through a real engineering project. By planning and design a tiny house, students learn about architecture, engineering, sustainable design and construction. SSFM volunteers meet with the students to provide guidance and assist with their designs. The final solutions are presented at the BIA Home and Remodeling Show. Atlas Construction will conduct a contest to select a recipient of the house, which they will build for free.

### OTHER ENGAGEMENTS

- I am the Lead Engineering Mentor for the Roosevelt High School ASCE High School Civil Engineering Club. (Wendy McLain)
- I work with the McKinley High School and Ke Kula Kaiapuni o Anuenue STEM programs to host activities for Engineering Week. (Wendy McLain)
- SSFM contributed \$5,000 to Kaiser High School to purchase AC units
- I am the King Kekaulike High School PTSA Executive Board Secretary. Activities include Grad Nite Committee Chair/Planning, Senior Project Judge, Staff Appreciation Lunch Coordination/Planning, Campus Beautification, mentorship in planning various school events, and upcountry educational community support. (Tracey Pagan)
- SSFM hosts high school juniors from the UH College of Engineering Summer Internship program who are interested in pursuing engineering as a career path. (Amy Salvador)

## In Our Elementary Schools



Math Matters engages elementary school students in mathematics competitions with the goal of promoting interest and enthusiasm for mathematics; fostering mathematics excellence and elevating the importance of math among students, parents, educators, and the general public. The program is sponsored by the Maui Chapter of the Hawaii Society of Professional Engineers. As part of the HSPE volunteers who plan the yearly event, we help prepare the tests and certificates, correct and score the exams, and facilitate the day's events.



### OTHER ENGAGEMENTS

- I have been on the Board of Directors of Seagull Schools, a system of six preschool facilities on Oahu. (Cheryl Soon)
- As outreach chair for the ASCE Younger Member Forum, I run and organize volunteers for the following STEM events at local schools - Girl Scouts of Hawaii, Waolani Judd Nazarene School, Moanalua, Manana and Webling Elementary Schools and the Engineering Week display at Pearlridge Mall. (Julie Hero)
- I put together STEM workshops for the Onizuka Day of Exploration for the Boy Scouts of America, Aloha Council. (Corey Matsuoka)
- I am the Board Secretary for the parent-teacher organization supporting Na Leo Kakoo. (Wendy McLain)
- I am on the Maui Economic Development Board. Through the Ke Alahele Fundraiser MEDB provides STEM related grants to our local schools. (Eric Matsuda)
- I participate with the Society of American Military Engineers. We award prizes at the Academy of Science Hawaii State Science and Engineering Fair. (Ryan Nakamoto)

- We participate in STEAM (STEM including Arts) programs at the Waolani Judd Nazarene School. (Kathleen Wong, Julie Hero)
- I am a St. Anthony Grade School PTG Board Parent Representative helping to encourage greater cooperation between home and school. (Tracey Pagan)
- I am a Kalama Intermediate School Band Booster and Co-treasurer (Tracey Pagan)

## With Our Professional Organizations



We participate as judges for technical reports for the Marine Advanced Technology Education Center, remotely operated vehicles competition. The Marine Advanced Technology Education (MATE) Center uses underwater robots to teach STEM and prepare students for technical careers. MATE created the ROV competition to expose students to science and technology careers and support education that will provide industry with skilled individuals. The MATE competition challenges students of all ages throughout the world to design and build ROVs that can tackle missions modeled after scenarios from the ocean workplace. Acting like entrepreneurial companies, teams role play manufacturing, marketing and and sales of their inventions. In addition to engineering their ROVs, the students must prepare technical reports, poster displays, and presentations that are judged by working professionals. (Genevieve Runningwind, Renee Ishisaka)

## OTHER ENGAGEMENTS

- I am the ASCE coordinator/mentor for the Annual Engineering Olympics. (Wendy McLain)