ASME Enhances Environmental Impact Through Education Support Program  Proposal Due Date: February 14, 2020

Engineers use the principles of engineering and science to make the air, water and land better and safer for humans and the natural world; to work toward the sustainable use of natural resources; to ensure that succeeding generations can thrive in a world with abundant resources.

To engage students and educators in this engineering discipline, and foster the impact of environmental education in communities around the world, ASME announces the 2020 Environmental Systems Design Education Support Program. This program will fund a maximum of $25,000 per year (with a limit of $5,000 per award) to students, educators, scientists and engineers who propose interesting ways to impact environmental education in their communities.

Based upon judging of the final reports submitted, at least one proposer will be invited to discuss their project at an ASME meeting. Travel and expenses will be provided.

This will be the fifth year of the education support program. Example projects supported in the first four years of the program included (reports available upon request):

- "Open-access Online Model for Predicting and Visualizing Pollutants Fate in the Environment"
  UNIVERSITY OF ALBERTA

- "High School Student Laboratory Education Module: Use of Abundant Waste Materials in Concrete Mix Design"
  UNIVERSITY OF AKRON

- "Education of Rural Community Members and Leaders About the Health Effects, Current State, and Minimizing of Particulate Matter Exposure in Rural Households that Use Biomass for Cooking"
  FEU INSTITUTE OF TECHNOLOGY, MANILA, PH

- "Experimental Design: Development of a High School Environmental Research Program"
  HOPE COLLEGE, HOLLAND, MI

- "Water for Life: A Project-Based Approach to the 7th Grade Science Classroom"
  MISSION ACHIEVEMENT AND SUCCESS CHARTER SCHOOL, ALBUQUERQUE, NM

- "Citizen Science: Effects of Stream Restoration on Water Quality"
  GEORGE MASON HIGH SCHOOL, FALLS CHURCH, VA
Proposals (maximum 5 pages in length) should be submitted electronically by **February 14, 2020** to edelsonm2@asme.org. Proposals describing projects that pair an ASME member with an educator will receive the highest priority and must describe how funds will be used. The expectation is that the majority share of funding will support the educator and students.

Proposals must include a letter from an institutional representative indicating that the institution supports the proposal and will administer the funds that ASME will provide. This letter will be in addition to the proposal and will not count against the proposal length stipulated above. The institutional representative must ensure that a final report is prepared and submitted to ASME at the conclusion of the project.

**Desirable Characteristics of Education Support Program Proposals Include:**

- An ASME member pairing with a local educator (at any level of education) to **develop a curriculum** unit over a summer that can be put into practice the following school year. Units that are successful may be shared with other educators.

- Funding support for a non-ASME member educator (primary and/or secondary school teacher) to **attend an ASME-sponsored environmental event** (e.g., conference, training/certification program, workshop, etc.) in support of curriculum development.

- Funding of **projects based on mechanical engineering and scientific principles** that appear promising for environmental education.

- Funding support for a college, or a graduate student to **attend an ASME-sponsored environmental event** (e.g., conference, training/certification program, workshop, etc.).