



Overview

The ASME Foundation garners support for an array of philanthropic initiatives with one overarching goal: empowering next generation engineers to build a more equitable and sustainable future.

To achieve this goal, the Foundation funds programs organized under three strategic pillars:

Education that Inspires, Careers that Matter, and Ideas that Innovate

These strategies are rooted in the Foundation's three core values:

- **The future depends on sustainability.**
- **Diversity drives innovation.**
- **Engineering should benefit every human being.**

This is the work of the ASME Foundation. What makes it possible is ASME's unrivaled engineering expertise, vast global network, powerful philanthropic programs... and YOU.

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Highlights

Education that Inspires

- In FY22, more than 300,000 K-12 students accessed digital content produced by ASME and Discovery Education, our implementation partner. In addition, more than 12,500 teachers utilized this content; 80% of students attend schools designated as Title I qualified; 46% are female; and 61% are members of groups that are underrepresented in STEM fields
- ASME member volunteers participated in over 90 DropMEIn! virtual classroom visits during the year, reaching more than 3,500 students
- More than 3,000 students from 48 countries participated in ASME E-Fest, held virtually for the third consecutive year. At the March 2022 E-Fest Digital, the Extended Reality Challenge (XRC) made its debut, with student teams designing vehicles with CAD software to navigate a virtual racecourse. Industry leaders that participated in E-Fest include Accenture, Altair, Boeing, GE Energy, Hewlett Packard, Johnson & Johnson, Mercer, Tata Consultancy Services, and others.

Careers that Matter

- Completed the Community College Engineering Pathways and HBCU Engineering Pathways pilot programs, validating ASME's workforce development strategy and providing valuable insights for rolling the programs out nationally in FY23.
- Engaged seven community colleges and three HBCUs in the pilot and won Board of Governors approval to expand the program in the 2023 academic year. Pilot Program participants included:

Community Colleges

- Dallas College – Dallas, Texas
- College of San Mateo – San Mateo, California
- Guilford Technical Community College, Jamestown, North Carolina
- New York City College of Technology – Brooklyn, New York
- Niagara County Community College – Sanborn, New York
- Red Rocks Community College – Lakewood, Colorado
- Valencia College – Orlando, Florida

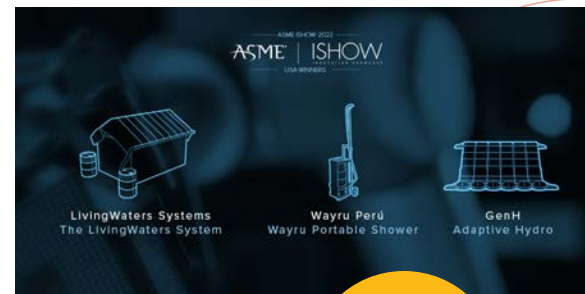
HBCUs

- North Carolina A&T State University – Greensboro, North Carolina
- Tennessee State University – Nashville, Tennessee
- University of the District of Columbia – Washington, D.C.

- Continued development of ASME's FutureME career engagement center, on track to launch in FY2023. When fully operational, the FutureME platform will be a valuable resource to students and early-engineers, connecting them to training, employment opportunities, and each other.

Ideas that Innovate

- ASME's three ISHOWs in FY22 named 23 finalists whose innovations benefited nine countries and received \$100,000 in seed capital. With sustained philanthropic support from The Lemelson Foundation, since inception, 207 finalists have received over \$1.1 million in funding, benefitting people in 34 countries worldwide. Among this year's ISHOW winners are:
 - o **GenH** (Boston, Mass., U.S.) for its "Adaptive Hydro™" solution, a modular hydropower system designed to electrify non-powered dams and canal heads without construction or investment in fixed infrastructure
 - o **LivingWaters Systems** (Hoboken, N.J., U.S.) for its portable, low-cost rainwater harvesting system to enable access to renewable, clean water
 - o **Wayru Perú** (Lima, Perú) for its portable shower that functions without any electrical or pipe connection



- The ISHOW IDEA Lab is a brand new initiative designed to help innovators go from the drawing board to a working prototype. An expansion of ISHOW's successful model, IDEA Lab is a hardware accelerator where ASME provides the structured support entrepreneurs need, including seed capital, technical expertise, and business guidance. Once launched, these products will address one or more of the United Nation's Sustainable Development Goals.

- In FY22, ASME's Engineering for Change initiative named its 200th E4C Fellow, bringing **the total number of E4C Fellows since inception to 202 representing 43 countries.** With generous support from the Autodesk Foundation, the E4C Fellowship program doubled in size during FY22.

Diversity, Equity, and Inclusion

- In February 2022, ASME held its second annual Increasing Women in Mechanical Engineering conference, where leaders from industry, government, and academia explored strategies for increasing participation by women in the mechanical engineering profession. Sonya Smith, Ph.D., professor of mechanical engineering at Howard University, delivered the keynote address. More than 800 attendees participated in the two iWME conferences.
- The ASME Foundation and the ASME Auxiliary **awarded 187 scholarships totaling more than \$586,000**, lowering the financial barriers to an engineering education; more than half of all scholarships were awarded to women and others from groups that are underrepresented in the engineering profession, including women and students of color. Funds were awarded to students enrolled in graduate, four-year, and two-year mechanical engineering and related degree programs.

- **Nearly half of all E4C Fellowships since its inception have been awarded to women**, well in excess of women's overall representation in the engineering profession and other STEM fields, including architecture, computer science, and data science.



Alba L. Colón-Rodríguez,



Dr. Aprille Ericsson,

Other ASME Philanthropy and Foundation Highlights

- In November 2021, the ASME Foundation hosted its third annual Philanthropic Impact Event, celebrating the progress ASME's philanthropic programs are making toward the goal of empowering a more diverse and inclusive next generation of engineers who will build a more sustainable future for us all.

- Two outstanding women engineers were honored with prestigious Society-level awards by ASME and the Foundation. Dr. Aprille Ericsson, an engineer at NASA's Goddard Space Flight Center, received the Ralph Coats Roe Medal, and Alba L. Colón-Rodríguez, director of competition systems at Hendrick Motorsports, received the Kate Gleason Award.

- The Philanthropy Department added its first government grants specialist to the fundraising team.

IMPACT STORY: ISHOW Winner - Caminos De Agua

Clean water is everyone's birthright, yet all over the world there are millions of people who lack access to a reliable source of clean, safe water for drinking, cooking, and bathing. Add to that the frequent natural and human-caused disasters that interrupt water supplies for countless others and you have an urgent global challenge.

Enter Caminos de Agua, the FY19 winner of ASME ISHOW, whose "Aguadapt" ceramic water filter provides an effective, low-cost solution. Unlike most commonly available water filters that remove water-borne bacteria, Aguadapt goes an important step further by removing 99.999 percent of other pathogens, e.g. arsenic, lead, pesticides, mining runoff, and other regionally relevant contaminants.

In addition to the health benefits of clean water, Aguadapt offers a significant environmental advantage by eliminating the need for water bottled in plastic containers, and the expense of shipping it to disaster zones and remote locations. The environmentally friendly ceramic filter unit can be fitted with universally available hardware to virtually any container.

"ISHOW has been a really great experience," said Allie Alvarez, a water engineer and director of technology at Caminos de Agua. "The financial support has really helped us grow our operations, and it has been great to be able to talk to experts at ISHOW."

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- Allie Alvarez



Caminos De Agua

IMPACT STORY: Sahar Shamsi

Sahar Shamsi is a mechanical engineer from the University of Toronto and a 2021 E4C Research Fellow. Spending six months last year researching clean water systems and renewable energy, Sahar worked with the National Renewable Energy Laboratory, or NREL. Sahar dedicated her time to a \$3.3 million dollar innovation competition, where participants worked to design clean water systems for disaster relief scenarios. As Sahar explains, "I helped to identify and tackle gaps in both the technical design aspects as well as their business strategies." Sahar's experience working with NREL gave her the opportunity to work right alongside entrepreneurs as they developed new technologies, "Their goal was to serve both people and the planet through the development of their clean technology."

The support Sahar received was not just contained to the Fellowship itself, she was given the opportunity to connect with other Fellows, as well as ASME's global community, which allowed her to develop and expand her network. "Being an E4C research fellow has been an incredibly rewarding experience. They gave me the chance to explore so many opportunities both within the Fellowship and outside of it," Sahar says. She was even given the opportunity to facilitate a hardware validation session at ISHOW when she showed interest.

When Sahar looks at the road ahead, Sahar's rewarding experience working with entrepreneurs and innovators, and providing the support they need. As a Program Coordinator at Climate Ventures in Toronto, Sahar works with six accelerator programs supporting clean tech entrepreneurs. "I hope to be able to continue to support the development of novel technologies in this way that are really needed in our world today. I want to do my part to solve these challenges."

“Being an E4C research fellow has been an incredibly rewarding experience.”

- Sahar Shamsi



Sahar Shamsi

ASME's Campaign For Next Generation Engineers

- On June 30, 2022, the ASME Foundation marked the end of year two of the five-year, \$50 million Campaign for Next Generation Engineers. The Foundation is profoundly grateful to the many individual, corporate, and foundation supporters who helped us make significant progress toward our goal.
- Engaged more than 7,000 individual donors, who collectively have contributed over \$2.5 million to support ASME's philanthropic programs
- Increased membership in the Archimedes Club, the Foundation's legacy giving society, to over 70 individuals and families



- Grew annual giving by 23 percent over the prior year, contributing to the \$11.6 million raised in just the first two years of the Campaign for Next Generation Engineers

VOLUNTEER SPOTLIGHT: Bob Hauck

Bob Hauck has come a long way in his engineering journey, a journey that started with learning what engineering was. "I didn't even know what an engineer was, I thought they drove a train," Bob says. After getting his undergraduate degree, Bob found himself in search of his next step in life, he was, as he puts it, "directionless Bob."

Bob found his direction in Africa, and specifically with the Peace Corps, where he spent two and a half years in Sierra Leone teaching math, science, and working on infrastructure projects. "I think there are points in your life where you say why not," Bob explains, "It was certainly eye-opening." His decision both renewed his belief in the importance of engineering as a force for good and put him on his career path, finding himself at GE Healthcare in Milwaukee, where he spent 38 years, eventually rising to the position of Chief Mechanical Engineer.

Following his retirement in 2016, Bob knew his work helping others was not over, "ASME's motto is advancing engineering for the benefit of humanity, not white humanity, not male humanity – it's all humanity, and I can get behind that." In order to help give back and provide the less fortunate with an opportunity to succeed, Bob established his own 501(c)(3), which allows him to send the income he makes as a consultant directly to the ASME Foundation. "I think every engineer on the planet should feel social responsibility," Bob says, "I know it's just a drop in the bucket, but like they say a journey of a thousand miles starts with a single step." And Bob's advice to those who are considering to give but haven't yet, "What are you waiting for?"

"I think every engineer on the planet should feel social responsibility."

-Bob Hauck



Bob Hauck & Family

FOUNDATION DONOR SPOTLIGHT: Siegel Family Endowment

In November 2021, the Siegel Family Endowment pledged \$100,000 to the ASME Foundation to fund a cohort of five cross-sector Engineering for Change Research Fellows and conduct a longitudinal impact evaluation of the program.

Founded by computer scientist and entrepreneur David M. Siegel, the Siegel Family Endowment focuses its charitable investments on organizations working at the intersections of learning, workforce, and infrastructure.

Through the support of ASME's E4C Research Fellowship Program, Siegel Family Endowment is proud to help build this new generation of engineers and foster a more nuanced, multidimensional approach to infrastructure design," said Executive Director Kathleen Knight. Knight was a featured speaker at ASME's December 2 Impact.Engineered event.



Bryan Erler

INDIVIDUAL DONOR SPOTLIGHT: Bryan Erler, ASME Past President

In an act of extraordinary generosity and continued service to the engineering community, longtime ASME leader and Immediate Past President Bryan Erler, P.E. has pledged \$100,000 to fund the Bryan Erler Endowed Scholarship Fund. Administered by the ASME Foundation, the fund will support students who are interested in engineering mechanics, although applicants need not be ME majors. According to Erler, **This scholarship will help promising engineering students, attract young talent to the engineering profession, and hopefully encourage enrollment in higher education.** The scholarship will initially be available to students in the 2023-2024 academic year.



The Bressler & Lee Family

DONOR SPOTLIGHT: Lisa Bressler & Karen Lee

For sisters Lisa Bressler and Karen Lee, the decision to give to ASME is all about legacy. Their father, Marcus Bressler had a history with ASME that goes back more than 60 years. "He was a big man with a big personality, and a very big heart," says Karen, "ASME was his life. It was his career, his passion, it was his hobby." The two sisters have lifelong memories of their father's love of engineering, and passion for ASME, including vivid recollections of him traveling for the Boiler and Pressure Vessel Code every year.

After their father passed away, the two sisters wanted to find a way to honor his legacy in a way that would make him proud. Finding inspiration from his dedication to both engineering as well as his passion for education, the family established an annual ASME scholarship in their father's name. As an immigrant from Cuba who attended Cornell, he valued the opportunities that can come from education. The scholarship fund in dad's name is the perfect way to carry on the legacy and support what was important to him," Karen says.

I'm happy to see that engineering is becoming something that women go into much more regularly, and that ASME is promoting it.
- Karen Lee

As they look ahead, the sisters plan to not only maintain the scholarship, but expand it as well, and continually make it more meaningful – they want it to help more people and give back what was given to them. When they think about the future of engineering, Lisa and Karen see a brighter world ahead, and they are doing their part to build it. "I'm happy to see that engineering is becoming something that women go into much more regularly, and that ASME is promoting it," says Karen. And both sisters know their father would feel the same, or as they put it, "dad would be pretty tickled to know."

Donors/Partners/Collaborators



Archimedes Club

Since 2003, the Archimedes Club has united the ASME planned giving community in the common goal of supporting programs that will help advance the engineering profession.



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Alexander Holley Society

Holley Society members provide ASME with critical resources to advance the engineering profession and help transform the world through unique engineering-based programs.



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2021 HONORS & AWARDS

The ASME Honors and Awards program, funded through the ASME Foundation by individual awards and endowment funds, pays tribute to engineering achievement and contributions to the profession.

Pol D. Spanos, Ph.D., P.E., was selected to receive the ASME Medal, established in 1920 as the Society's highest award, and given to recognize eminently distinguished engineering achievement.

Dr. Spanos, the Lewis B. Ryon endowed chair in engineering at Rice University in Houston, TX, was honored for outstanding research on the dynamics and reliability of nonlinear mechanical and structural systems; for tireless service to ASME and the engineering community; for impactful contributions through highly cited books and articles; and for devoted mentorship and internationally recognized scientific and technological leadership.



Pol D. Spanos

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MAYO D. HERSEY AWARD

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INTERNAL COMBUSTION ENGINE AWARD

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