



2024

Annual Report

1880

Year ASME was Established

75,000+

ASME Members,
including Students and
Early Career Engineers

19,000+

ASME Student Members

8,000+

ASME Early Career Engineer Members,
including Graduate Students

130+

Countries with ASME Members

570+

ASME Standards

100+

Countries using the ASME Boiler & Pressure
Vessel Code

3,700+

Active Volunteer Leaders

36

Technical Divisions/Research Committees

620,000+

K-12 Students reached by ASME STEM
education programs since 2014

Table of Contents:

- ASME Annual Report **pg. 4**
- ASME Foundation **pg. 11**
- Financials **pg. 28**



ASME Mission

To advance engineering for the benefit
of humanity

ASME Vision

To be the premier resource for the
engineering community globally

ASME Values

In performing its mission, ASME adheres
to these core values:

- Embrace integrity and ethical conduct
- Embrace diversity and respect the dignity
and culture of all people
- Nurture and treasure the environment and
our natural and man-made resources
- Facilitate the development, dissemination,
and application of engineering knowledge
- Promote the benefits of continuing
education and of engineering education
- Promote the benefits of continuing
education and of engineering education
- Respect and document engineering history
while continually embracing change
- Promote the technical and societal
contribution of engineers



***Setting the Standard...
In Engineering Excellence -
In Knowledge, Community, and
Advocacy - For the Benefit of Humanity***



LETTER FROM THE ASME

President and Executive Director/CEO

We are excited about the future of ASME after having experienced a successful fiscal year 2024. Despite global challenges brought about by political and economic uncertainties, ASME remains determined to address present-day challenges, such as climate change, the renaissance of space exploration, and artificial intelligence. As we advance engineering for the benefit of humanity, ASME is poised to provide solutions to engineering challenges and support a sustainable engineering future.

With the guidance of the Board of Governors and the ASME Executive Team, we will continue to emphasize key operational functions across the organization, including Digital Transformation; the Customer Experience and the Engineers' Lifelong Journey; Diversity, Equity, and Inclusion; Portfolio Development and Management; and Finance and Business Acumen, to name a few.

ASME had an overall increase in net assets of \$5 million and ended the year with \$182 million in net assets and \$266 million in total assets. ASME continues to be a financially stable organization, and we have been able to leverage our investment portfolio. We have and will continue to attract dedicated individuals to contribute to the success of the Society. Our two-year business plan will afford ASME the ability to continue to monitor global conditions and ensure growth developing standards and providing services ensuring safety globally.

ASME has adopted a more integrated approach to developing and managing our products and services at the enterprise level, optimizing operational efficiency and a customer-centric philosophy for employees, volunteers, customers, and our global community.

We have commenced a plan to reshape, reposition, and grow ASME's international footprint by addressing and evaluating the need for a presence in Singapore to serve the Asian market. We are also pleased that ASME will continue to expand its India office operations to support more local efforts as well as U.S. domestic activities. On April 10, 2024, ASME received approval for the formation of a new Section 8 entity – ASME Foundation India. This will allow ASME to raise funds to support philanthropy in India as well as to receiving funding from Indian corporations via their CSR programs and the Indian government. At the same time, discussions continue with fellow societies in Europe and Latin America to increase ASME's presence in those regions.

Our strategic initiatives continue to position ASME as a leader. This is truly a global team effort by our volunteers and staff.

Together we say thank you for your continued support of ASME. From our world-renowned standards and certifications to our conferences, journals, and learning and development opportunities, along with the inspiring work of the ASME Foundation, ASME maintains a positive impact on our profession and humanity as a whole.

Thank you.

Thomas R. Kurfess, PhD., P.E.
President (2023-2024)

Thomas Costabile, P.E., FASME
Executive Director/CEO





FY2024 Board Of Governors

Front row L to R

Thomas. Gardner, Ph.D., P.E.
Chief Technology Officer
HP Federal

Thomas. R. Kurfess, Ph.D., P.E.
ASME President (2023-2024)
Executive Director
Georgia Tech Manufacturing Institute

Thomas Costabile, P.E.
Executive Director/CEO
ASME

Tara McMahan - Secretary and Treasurer
Sr. Principal Engineer/Manager
Det Norske Veritas (DNV)

Back row L to R

Nicole Salloum - ECLIPSE Intern
Project Manager – Artificial Intelligence
La Javaness

Monica Moman-Saunders, P.E.
Manager, Contract Services
Louisville Gas and Electric Company
(Retired)

Andrew S. Bicos, Ph.D.
Former Director of Systems
Engineering & Analysis Technology
The Boeing Company (Retired)

Alma Fallon
Director of Strategic Planning
Huntington Ingalls Industries
(Retired)

Patrick H. Veith
Executive Vice President
Dynamic Risk

Jared M. Oehring
Director of Engineering
Forum Engineering Technologies

Kathryn W. Jablokow, Ph.D.
Professor, Engineering Design and
Mechanical Engineering
Pennsylvania State University

Samuel J. Korellis, P.E.
Energy Industry Consultant
Former Technical Executive
Electric Power Research Institute, Inc.
(Retired)

Susan Ipri-Brown
Strategic Partnership Specialist
National Institute of Standards and
Technology
Office of Advanced Manufacturing

Not pictured:

Dave Schlesinger
Senior Technical Director
Parsons

Wolf Yeigh, Ph.D.
Professor of Engineering
University of Washington Bothell



FY2024 Senior Vice Presidents

Lester K. Su, Ph.D.
ASME Public Affairs & Outreach Sector
Lecturer
Mechanical Engineering
Stanford University

Thomas Vogan
ASME Standards and Certifications Sector
Senior Manager
Sargent & Lundy

Robert J. Stakenborghs, P.E.
ASME Technology and Engineering
Communities Sector
Chief Executive Officer
Advanced Clean Energy Consulting

Nicole Kaufman Dyess
ASME Student and Early Career
Development Sector
Consultant
Nicole Kaufman Dyess, LLC

Richard S. Cowan, Ph.D.
ASME Section Engagement Sector
Research Faculty
Georgia Institute of Technology

FY2024 Society Officers

Tara McMahan - Secretary and Treasurer
Sr. Principal Engineer/Manager
Det Norske Veritas (DNV)

John Delli Venneri – Assistant Secretary
General Counsel
ASME

William Garofalo – Assistant Treasurer
Chief Financial Officer
ASME

FY2024 Executive Team

Thomas Costabile, P.E.
Executive Director/CEO
ASME

Chandra Clouden
Chief Human Resources Officer
ASME

John Delli Venneri
General Counsel
ASME

William Garofalo
Chief Financial Officer
ASME

Michael Johnson
Chief Strategy Officer
ASME

Jeff Patterson
Chief Operating Officer
ASME

Allian Pratt
Chief Leadership Engagement Officer
ASME

Karen Russo
Director, Executive Operations and
Strategic Communications
ASME



Year in Review



ASME President Susan Ipri-Brown

At a ceremony held at the ASME Annual Meeting on June 4, Susan Ipri-Brown was announced as the 143rd president of ASME. Ipri-Brown, an ASME Fellow, has served on the ASME Board of Governors, and has been an active member of the Society for 34 years, including her years as a student member. She has held numerous positions of leadership in the Society, including her service on the ASME Executive Committee and Board, and on the Public Affairs and Outreach Council. She held the position of vice president of the Committee on Government Relations and served at the White House Office of Science and Technology Policy. During her time at the White House Office of Science and Technology Policy, she fostered strategic partnerships to support technology-based economic development initiatives. She also served as vice president of ASME's Global Outreach and was a member of the Society's Council on Education.



Fifty Years of Federal Fellows

The year 2023 marked the 50th anniversary of ASME's Federal Fellows program. Since its inception in 1973, ASME's Fellows program has been used as a model for other engineering and scientific societies to develop their own fellowship programs. This program enables selected ASME members to devote a year to working in government, providing engineering and technical advice to policy makers in the U.S. Congress, the White House, and federal agencies. ASME's Federal Government Fellowships provide a valuable public service to the nation while also giving engineers a unique opportunity to participate directly in the policy-making process.



ASME/Underline Science Host Conference Videos

Underline Science, Inc., the premier virtual conference venue and digital video library for events and content in science, medicine, academia, and other professional fields, has signed an agreement with ASME to host its complete catalog of 10,000+ conference lecture videos. "Together with Underline Science, we are poised to make a lasting impact on the way knowledge is shared and utilized, with a particular emphasis on ensuring that individuals have equal access to these invaluable resources," said ASME Executive Director/CEO Tom Costabile. "In embracing DEI principles, ASME aims to create a more inclusive and equitable learning environment where every aspiring engineer, scientist, and researcher has the opportunity to thrive and contribute to our collective progress for the benefit of humanity."



Committee on Sustainability

In October 2023, ASME announced the establishment of its Committee on Sustainability, comprising 11 experts from a variety of industry sectors, research disciplines, and policy experience appointed by the ASME Board of Governors to help accelerate the Society's response to climate change. The Committee is responsible for ensuring that ASME has a robust sustainability strategy informed by evidence and supported by qualified leadership. "With support from this committee of experts, ASME's climate strategy will drive climate impact through policy, technology and innovation, and workforce initiatives," said ASME Executive Director/CEO Tom Costabile. "We share their passion for advancing humanity through engineering and the belief that there is more we can be doing to leverage our collective resources for climate action."



Middle School Outreach

ASME volunteers and staff visited the John Adams Middle School in Los Angeles, Calif. The ASME DropMEin event was held on June 3rd in conjunction with the 2024 ASME Annual Meeting. Students participated in hands-on engineering and STEM projects and worked alongside engineers to engage in fun learning activities. Special guest and global STEM ambassador Jay Flores (photo) used the entertainment factor to increase excitement and awareness in STEM with science experiments disguised as magic tricks, motivating the students to become tomorrow's innovators.



ECLIPSE Leadership

At the 2024 ASME Annual Meeting held in Long Beach, Calif., the ECLIPSE Early Career Leadership participants presented a group project to the Board of Directors. This year's project focused on "Preparing ASME for Generation Z and Beyond," addressing future strategies to engage younger generations and ensure the Society's continued relevance and impact. ASME believes that early career engineers can make significant contributions to the Society and is eager to encourage their participation in all levels of leadership.



ASME and AUVSI Work Together

In 2023, ASME and the Association for Uncrewed Vehicle Systems International (AUVSI) announced a new collaboration that seeks to further what we know about autonomous vehicles and systems. ASME recently signed a participation agreement with the association supporting the new Journal of Autonomous Vehicles and Systems (JAVS). JAVS provides an international platform for the communication and discussion of technical knowledge and solutions in the transformative areas of the research and engineering design of autonomous vehicles and systems that operate in all media and inter-medium environments: ground, air, space, and water.



Optimism Engineered Gala

The ASME Foundation, the philanthropic arm of ASME, convened more than 250 industry and community leaders and STEM advocates to celebrate the promise of a diverse engineering workforce at its "Optimism Engineered: Empowering Future Visionaries" GALA 2024, held on April 11 at the Mandarin Oriental, New York. "With this first-ever major industry event, the ASME Foundation celebrates its progress toward our philanthropic goals of equity in engineering and sustainability for the world," said ASME Executive Director/CEO Tom Costabile. *[Photo: Keith Roe, past president of ASME, and current chair of the ASME Foundation Philanthropy Committee, introduced GALA 2024 host Michelle Miller, award-winning journalist and co-host of CBS Saturday Morning.]*



ASME Foundation Grant

This year, the ASME Foundation was awarded an \$800,000 multi-year grant from ECMC Foundation to help underserved community college and CTE (Career Technical Education) students persist to graduation and enter the technical workforce or transition to a four-year institution to complete a bachelor's degree in mechanical engineering or related technical field. ECMC Foundation is a national foundation whose North Star goal is to eliminate equity gaps in postsecondary completion by 2040. "This significant grant advances our work to build the technical workforce for the 21st Century while closing the equity gap that leaves too many women, rural learners, and students of color behind," said Stephanie Viola, executive director of the ASME Foundation and managing director of ASME Philanthropy.



Historic Seaplane Landmark

The Seaplane Aeronautica Macchi MC.72, with its supercharged V-24 FIAT AS 6 engine, was the most advanced racing aircraft of its time. In September 2023, it joined the History and Heritage roster as ASME's 281st landmark. Originally designed for the 1931 Schneider Trophy Race, it incorporated several advanced features including the use of aluminum alloys and counter-rotating propellers. With improvements over the next few years, it set the world speed record for aircraft at 709.2 KM/H (440.7 MPH) on October 23, 1934, over Lake Garda, Italy. It remains (2021) the world's fastest seaplane powered by a piston engine.



Engineering a Changing Climate

Thousands of students and early career engineers attended E-Fest Careers, a virtual ASME event held in September 2023. Topics included the global need to decarbonize, mechanical engineers' place in fueling growth using sustainable approaches, and the overall big picture on ME's work toward net zero. Keynote speakers discussed "Engineering an Impact on Sustainability," which included a look at the big picture on net zero. It's important to understand the sources of emissions and nature's means of rebalancing the climate system, explained Amanda Smith, senior scientist for the Built Environment, Project Drawdown. "We are adding stuff to the atmosphere," she said. Land and water remove about 40 percent of human-made emissions and help us out in that regard, "but most stays in the atmosphere," Smith concluded.



Mechanical Engineering Education

ASME awarded the 2024 Edwin F. Church Medal to Oscar Barton, Jr., Ph.D., dean of the Morgan State University Clarence M. Mitchell, Jr., School of Engineering, an ASME Fellow, and a member of the ASME Foundation board of directors. Established in 1972, the medal is awarded to "an individual who has rendered eminent service in increasing the value, importance and attractiveness of mechanical engineering education." The medal was presented to Dr. Barton at the ASME Foundation's second annual celebration of its progress toward achieving equity in engineering on March 21 in Washington DC. In addition, the Foundation established the Dr. Oscar Barton, Jr. Endowed Scholarship Fund to help lower financial barriers for community college students of color pursuing a four-year engineering degree. *[Photo left to right: Dr. Sonya Smith, Howard University Professor and chair of the ASME Foundation Board presents the Church Medal to Dr. Oscar Barton, Jr.]*

2024 ANNUAL REPORT

In Memorium



Nancy DeLoye Fitzroy,
ASME 105th President
(1986-1987)

Nancy DeLoye Fitzroy, ASME Past President (1986-1987), died on January 15, 2024, in Schenectady, N.Y., at the age of 96. Fitzroy became the first female president of the American Society of Mechanical Engineers, and the first woman to head a major engineering society. She held the distinction of being the first woman to graduate from Rensselaer Polytechnic Institute (RPI) with a bachelor's degree in chemical engineering and received a doctorate from RPI. She was a development engineer for the General Electric Company (GE), initially working on the Hermes Missile Program and would remain with GE for 37 years. Fitzroy was also one of the first female helicopter pilots, and both she and her husband Roland enjoyed flying, sailing, skiing, and traveling. In 2011, ASME established the Nancy DeLoye Fitzroy and Roland V. Fitzroy Medal for pioneering contributions to the frontiers of engineering, leading to breakthroughs in existing technology or new applications or new areas of engineering endeavors. Fitzroy served as ASME's 105th president.



Winfred "Win" Phillips,
ASME 117th President
(1998-1999)

Winfred "Win" Phillips, ASME Past President (1998-1999) and former member of the Board of Governors (1994-1998), died on February 24, 2024, in Gainesville, Fla., at the age of 83. Phillips was a longtime leader at the University of Florida (UF) in Gainesville, where he served on the faculty since 1988. His research helped pave the way for biomedical engineering to be a highly respected activity within mechanical engineering. A Fellow of ASME, Phillips was actively involved in the Society since joining in 1974. He served as ASME's 117th president.



William A. "Bill" Weiblen,
ASME 120th President
(2001-2002)

William A. "Bill" Weiblen, ASME Past President (2001-2002) and former member of the Board of Governors (1996-1999), died on February 27, 2024, in his hometown of Avon, Conn., at the age of 85. As an Honorary Member of the Society, Bill was recognized for his extraordinary leadership, versatility, dedication, and service, which had an enduring impact on ASME as well as Pratt & Whitney, his former employer. Weiblen served as ASME's 120th president.



Overview

The ASME Foundation's singular purpose is to empower diverse next-generation engineers to build a more sustainable world. We pursue this goal through a range of philanthropic initiatives organized around three core strategies: education, career resources, and innovation support.

Funds raised by the ASME Foundation drive programs that support every phase of an engineer's professional journey, from initial inspiration and learning through early career engagement and life-changing innovations.

The Campaign for Next Generation Engineers is ASME's five-year, \$50 million fundraising effort to advance two critical goals:

- **Double the number of women and minorities in engineering by 2030**
- **Mobilize a global ecosystem of engineers to innovate a sustainable world.**

Supporting the ASME Foundation is an expression of optimism, a belief in the ingenuity of diverse engineers to create a better future for all of us. Please join the effort to realize our vision of *Equity in Engineering and Sustainability for the World*.



Stephanie Viola



Today, barely one in ten mechanical engineers is a woman or person of color. This past year was the hottest year on record, even hotter than the previous one, also a record-setter. Both statistics are significant, if quite different, engineering challenges.

As we look ahead, we ask every ASME member and supporter to consider this question: how can we hope to build a cleaner, cooler, more productive world if we leave so much promising talent behind?

There is a solution to both sides of that equation: the ASME philanthropic programs funded by your donations to the ASME Foundation.

Together we can scale powerful, proven programs that attract more promising young people to engineering, support them with education and early-career resources, then nurture their breakthrough sustainable innovations.

It's a formula that works, but only with your generous support.

Thank you for believing in this work, for sharing our values, and for donating. A more equitable and sustainable world really is possible, and with your help we will achieve it.

Warmly,

Stephanie Viola
Executive Director, ASME Foundation
Managing Director, ASME Philanthropy

LETTER FROM THE Executive Director of the ASME Foundation

Dear ASME Foundation Supporter,

Four years ago, when we launched the Campaign for Next Generation Engineers, there was a growing, urgent awareness of two unacceptable realities: widespread social and economic inequities and devastating human impacts on the natural environment.

Against that backdrop, the ASME Foundation committed itself to addressing two of the most pressing challenges confronting the engineering community: opening avenues of opportunity for those who are underrepresented in the profession; and mobilizing a global ecosystem of engineers to tackle head-on the issues of sustainability and climate change.

We are proud of all that we've accomplished and profoundly grateful to the donors that make our progress possible. And we are keenly aware of just how far we must go to reach our goals.



The ASME Foundation's Campaign for Next Generation Engineers

WE BELIEVE

- The future depends on sustainability.
- Diversity drives innovation.
- Engineering should benefit everyone.

CAMPAIGN GOALS

- Double the number of women and minorities in engineering by 2030
- Mobilize a global ecosystem of engineers to innovate a sustainable world

ASME's Campaign for Next Generation Engineers drives philanthropic programs in three key areas: engineering education, early career resources, and support for breakthrough sustainable innovation.

There are many ways to support ASME Philanthropy. Your individual donation—one time, recurring, and legacy giving—demonstrates that you share our core values of equity and sustainability. (Many employers will match your gift; be sure to check if yours is one of them.) Please visit the donate page on the ASME Foundation website to learn more.

www.asmefoundation.org/donate/



ASME Foundation Board of Directors



Sonya T. Smith, Ph.D.
Chair Professor,
Howard University,
College of Engineering,
Department of Mechanical
Engineering



Oscar Barton, Jr., Ph.D. P.E.
Dean, Morgan State University,
College of Engineering



Karen J. Ohland
ASME Past President
Associate Director,
Finance and Operations,
Princeton University Art
Museum



Thomas Costabile, P.E.
ASME Executive Director/CEO



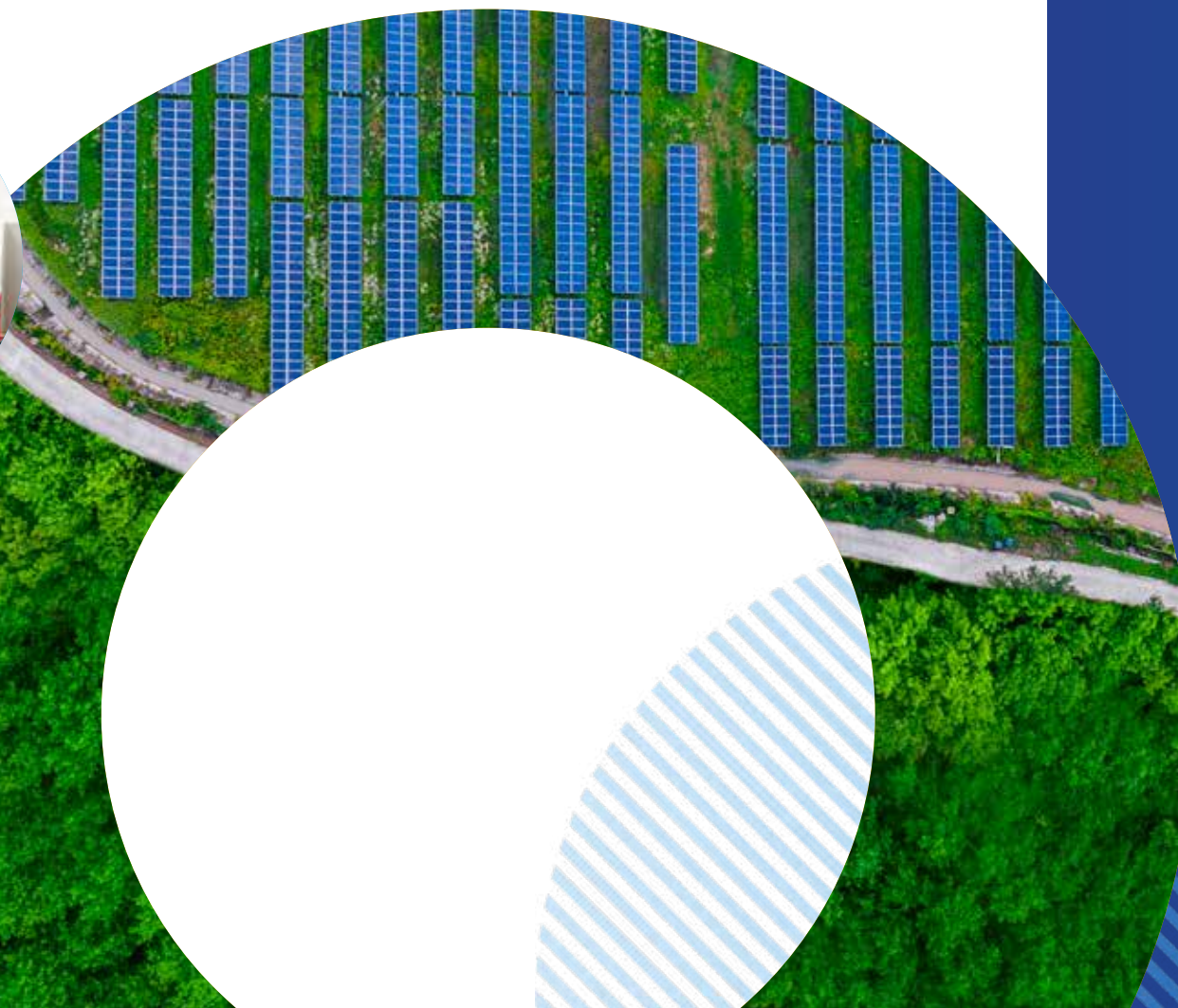
Gretchen Crutchfield
Secretary
ASME Foundation



Thomas Meehan
Treasurer
ASME Foundation



Stephanie Viola
Executive Director,
ASME Foundation
Managing Director, Programs
& Philanthropy



Philanthropy Committee

K. Keith Roe, P.E., *Chair*

Terry E. Shoup, P.E., *Vice Chair*

Kenneth R. Balkey, P.E.

Thomas Costabile, P.E.

Jennifer R. Jewers Bowlin, P.E.

Rudolf E. Landwaard, P.E.

Ying Pang, Director

Thomas D. Pestorius

Anita Rebarchak

Anand Sethupathy

Patrick Vieth

Justin R. Young

Stephanie Viola

Philanthropy Staff

Stephanie Viola
Executive Director, ASME Foundation
Managing Director, Programs & Philanthropy, ASME

Gretchen Crutchfield
Secretary, ASME Foundation
Manager, Individual Giving & Volunteer Engagement

Keith Miles
Director, Major Gifts

Rebecca Lakhani
Director, Corporate & Foundation Partnerships

Allysa Oliver
Manager, Development Operations

Jarrett Reich
Corporate Relationships & Communications Manager

Dorothy Keskitalo
Government Grant Specialist

Alexis Mohrey
Development Operations Specialist

Prathamesh Jadhav
Program Coordinator

Sydni Frontanez
Donor Relations Coordinator

Campaign Cabinet

Keith Roe, P.E.
Chair, ASME Philanthropy Committee & Campaign Cabinet
Chairman & CEO, Burns & Roe Enterprises (retired)

Kenneth R. Balkey, P.E.
Member, ASME Philanthropy Committee
Senior Executive, Westinghouse (retired)

Gwendolyn E. Boyd, Ph.D.
Former President, Alabama State University
Johns Hopkins University, Applied Physics Lab (retired)

Carol Dahl, Ph.D.
Former Executive Director, The Lemelson Foundation

Bob Hauck, P.E.
Healthcare Chief Mechanical Engineer, GE (retired)

William Magwood, IV
Former Commissioner, United States Nuclear Regulatory
Commission

Chandrakant Patel, P.E.
Chief Engineer and Senior Fellow, HP

Thomas Pestorius
Member, ASME Philanthropy Committee
President & CEO, H&P Incorporated (retired)

Terry E. Shoup, Ph.D., P.E.
Professor Emeritus of Mechanical Engineering, Santa
Clara University
Member, ASME Philanthropy Committee

Neil Wilmschurst
Senior Vice President of Energy System Resources,
Electric Power Research Institute

Jean Zu, Ph.D.
Dean, Schaefer School of Engineering and Science,
Stevens Institute of Technology

Program Highlights

EDUCATION

A CASE STUDY: ASME Foundation And ComEd Collaboration At Bronzeville Classical

What does it mean to “think like an engineer?”

Drop ME In! in FY2024

4,000+ students/K-12 community members engaged

88 engagements (73 in-person, 15 virtual)

84% Title 1 qualified schools

“When I think like an engineer, it makes me feel powerful with my thoughts and I think having confidence helps solve lots of problems.”

So says Ava, a fifth-grade student participating in monthly ASME DropMEIn! classroom visits at Bronzeville Classical Elementary School, a public K-8 school located in the south side of Chicago. In 2021, the ASME Foundation teamed up with ComEd, an Exelon Company and one of Chicago’s largest energy providers, to develop a series of STEM experiences to highlight energy technologies and related career paths highlighted by ComEd employees.

“We know that the days of just reading about science and answering questions are over. With ComEd being one of the biggest energy companies in Chicago and knowing that ASME will bring in real engineers, we jumped at this opportunity,” said Nicole Spicer, Principal, Bronzeville Classical.

“They’ve brought in engineers from diverse backgrounds, so my students are able to see themselves one day potentially in a STEM field,” said Mr. Andrew Avila, 4th/5th grade science teacher at Bronzeville.

Fifth and sixth grade students participated in a wide array of hands-on activities related to topics such as renewable energy technologies, data science, electric pole and system design, storm mitigation systems, and microgrids – all while engaging with ComEd professionals who share their personal and professional journeys.

Speaking to the student experience, Mr. Avila shared,

“They have to collaborate as a team, they have to problem-solve as a team, as those are all skills that we use in our careers today. They are learning the foundation of those skills to take with them when they leave us.”

ASME Foundation Scholarships

For the 2023-2024 academic year, the ASME Foundation awarded 176 scholarships to 148 awardees at the high school through graduate degree levels. The total value of scholarship awards was \$628,000. Students from groups that are underrepresented in engineering fields accounted for 52 percent of total awards.

CAREER RESOURCES



ASME Foundation Wins Grant to Advance Apprenticeships

According to employers, many of the students graduating with an associate degree from a two-year Engineering/Mechanical Engineering Transfer Program (AS) lack the basic entry level knowledge, skills, and practical application required for today’s most in-demand technical jobs. Far too many of these talented students leave the engineering field altogether, widening the critical employment gap.

To counter this trend, the ASME Foundation was awarded a four-year, \$3.975 million grant by the U.S. Department of Labor to develop a Mechanical Engineering Technology Registered Apprenticeship program. The aim is to close the knowledge and skills gap among aspiring skilled technical workers. The apprenticeship program will offer work-based training that combines formal education with on-the-job training with the goal of developing a diverse, skilled, retainable, and sustainable engineering workforce.



Federal Fellows: 50 Years Advising Public Policy

Fifty years after it was the first engineering society to place technical experts in the federal government, ASME’s Federal Fellows program is still performing a valuable public service by providing informed, unbiased, and state-of-the-art technical advice to American policymakers.

These fellows and their accomplishments were fêted with a cocktail reception in Washington, DC at the Decatur House, once the hub of US Government. Attendees included current and former fellows ASME leadership, and partners of the Federal Fellows program.

In FY24, the U.S. Department of State welcomed its first ASME Federal Fellow, initiating a new dimension to the program. A second State Department fellow will serve in FY25.

The 50th anniversary cohort of 2023-2024 included three fellows: two who served in the U.S. Congress—in the Office of Senator Ben Ray Lujan of New Mexico and the Senate Committee on Commerce, Science, and Transportation’s Subcommittee on Space and Science—and one in the Department of State.



Photo: Current and former fellows ASME leadership, and partners of the Federal Fellows program.

Sustainable Innovation

The ASME Foundation expresses its commitment to global sustainability by funding three core initiatives: ISHOW, Idea Lab, and Engineering for Change, all of which work to advance the United Nations Sustainable Development Goals. FY24 was a milestone year for all three programs.

ISHOW

ISHOW and IDEALab are hardware accelerators, where social entrepreneurs turn for engineering advice, business guidance, and seed capital. IDEALab helps innovators advance new technologies from concept to prototype, while ISHOW helps move new products from prototype to market. All of these new products address one or more of the UN SDGs.

- ISHOW India 2024 in April attracted 139 applicants from 13 countries. ISHOW Kenya, held in June 2024, attracted 144 applications from 23 countries. There were seven finalists selected at each ISHOW. More than a third of ISHOW participants were women-led ventures, and 11 focus on clean tech.
- ISHOW hosted ecosystem roundtables in India and Kenya with 20+ influential representatives from industry, and academia, as well as entrepreneurs and several organizations that support them. With additional funding from the Lemelson Foundation, the roundtables identified new pathways for ASME and E4C to support entrepreneurship directly and through partnerships in the three ISHOW regions.



E4C

Engineering for Change is a global digital community of engineering and allied professionals dedicated to advancing the UN SDGs. E4C Fellows work on impact projects and research that directly benefit under-resourced communities worldwide.

- E4C launched its new digital platform in FY24 and by year-end reached 70,000 members.
- The 10th annual cohort of E4C Fellowships included 47 Fellows from 16 countries (an acceptance rate of 7% with 719 total applicants), of whom 49% are women, a 14% increase over the prior year. The current E4C Fellows cohort are working on 34 impact projects this year, each addressing several of the 17 UN SDGs.
- FY24 marked the first full year of collaboration between the ASME Foundation and VDI (ASME’s German equivalent), focusing on digital tools to decarbonize water treatment and production in the US and Germany.

ASME’s Engineering Sustainable Development team partnered with Engineering for Change to lead several events in connection with the 2024 UN Science Technology & Innovation Forum. The engagements included a panel presentation on strengthening scientific cooperation, technology and knowledge sharing and accelerating innovation for integrated climate action. The team also hosted an ecosystem roundtable of innovators and representatives from the 10-Member-Group of High-level Representatives, and presented a virtual-side event exploring the dynamic landscape of humanitarian relief innovation.



Optimism Engineered Gala: Empowering Future Visionaries

April 11, 2024 | New York City

The ASME Foundation’s first-ever industry gala was an inspiring evening celebrating leadership, innovation, and philanthropy to empower the next generation of engineers. More than a fundraiser to propel ASME’s philanthropic programs, Optimism Engineered celebrates the ASME Foundation’s progress toward equity in engineering and sustainability for the world.



Andrew Anagnost, CEO of Autodesk, Inc. and Sylvia Acevedo, engineer, entrepreneur, and former president of Girl Scouts USA

For the over 250 optimists who attended the April 11, 2024 event in New York City, the future is looking brighter than ever—thanks to the ingenuity of diverse next generation engineers. The assembled guests—from industry, government, academia, and the philanthropic sector—heard Next Gen Award winner Sylvia Acevedo exhort young innovators to “navigate around the no’s,” while Excellence in Industry honoree Andrew Anagnost, president and CEO of Autodesk, predicted a future where technology empowers engineers to solve humanity’s greatest sustainability challenges.

Tickets for the second-annual Optimism Engineered, on May 1 in New York City, will be available in early 2025.



REINVENTING THE FUTURE

*A gathering of visionary leaders and STEM advocates
celebrating progress toward equity in engineering.
March 21, 2024 | Washington, D.C.*



KEYNOTE SPEAKER
Dr. Gregory Washington
President, George Mason University



HOST
Michele Norris
Award-winning Journalist



HONOREE
Dr. Oscar Barton, Jr.
*Recipient of the 2024 ASME
Edwin R. Church Medal*

JOIN US!

Reinventing the Future: Diversity Driving Innovation

The ASME Foundation’s second annual celebration of our progress toward equity in engineering, Reinventing the Future 2024, attracted over 200 leaders, including many from the African American engineering community, to Washington, D.C. Proceeds of this fundraiser benefited ASME’s Campaign for Next Generation Engineers in support of our programs in engineering education, early-career resources, and support for breakthrough innovations.

The honoree of the evening was Dr. Oscar Barton, Jr., dean of the Mitchell School of Engineering at Morgan State University, recipient of the 2024 ASME Edwin F. Church Medal, and member of the ASME Foundation board of directors. The keynote address was delivered by Dr. Gregory Washington, president of George Mason University.

Funder Profile – ECMC Foundation

ECMC Foundation Grant for Technical Workforce Development

ECMC (The Educational Credit Management Corporation) Foundation awarded the ASME Foundation a \$800,000 grant to help underserved community college and CTE students continue to graduation or transition to a four-year institution to complete a bachelor's degree in mechanical engineering or a related technical field.

The two-year grant, "Accelerating Engineering Pathways for CTE Students in a COVID-Changed World," expands ASME's Community College Engineering Pathways (CCEP) program to a total 15 community colleges, including five minority-serving institutions.

Through this partnership with ECMC Foundation, ASME will continue to open doors of opportunity for underserved students seeking to transition from community college to high-paying, in-demand careers. The grant helps advance the ASME Foundation's goal to build the technical workforce for the 21st Century while closing the equity gap that leaves too many women, rural learners, and students of color behind.

The CCEP initiative connects community college and continuing technical education students to opportunities for specialized training, internships, apprenticeships, and jobs. At the same time, it provides resources to community colleges to expand their employer networks and align curricula to the needs of local and national employers. A companion program, HBCU Engineering Pathways, helps engineering students at historically Black colleges and universities expand their professional networks, participate in ASME student sections and activities, and connects employers to graduates of HBCUs and other minority-serving institutions.



Photo: Jeremiah "Jeremy" Su

FY24
ASME Foundation Supporters and Beneficiaries

Beneficiary Profile – Burn Design Labs

Transforming Women's Lives in West Africa

Across West Africa, more than 300,000 women earn livings by roasting and processing shea nuts, the raw material for shea butter, widely used in the cosmetics and confectionary sectors. Traditional processing methods involve slowly hand-roasting the nuts over smoky, wood-burning fires, endangering the health of the workers, creating significant greenhouse gasses, and depleting a vital natural resource.

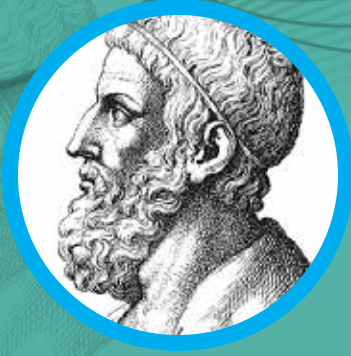
Burn Design Lab, a mission-driven nonprofit and ISHOW Kenya finalist, engineered an efficient, practical, low-resource solution that today is transforming countless lives by reducing health risk, conserving scarce resources, improving ergonomics, and dramatically increasing output.

BDL's shea nut roaster combines commonly available materials in a compact design that reduces firewood use by up to 90 percent, particulate emissions by some 70 percent, and increases output of finished product by nearly 50 percent over traditional methods. What's more, the roasters are manufactured locally, generating well-paying work for local craftspeople.

As an ISHOW awardee, BDL received technical support, business guidance, and \$10,000 in seed capital to transform their prototype into a market-ready solution. According to Jeremy Su, director of engineering at Burn Design Lab, thanks to ASME and ISHOW "our team has been able to continue this important work and continue making an impact on these women's lives."



Archimedes Club

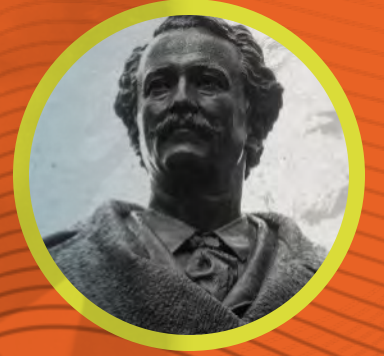


Since 2003, the Archimedes Club has united the ASME planned giving community in the common goal of supporting programs that will help advance the engineering profession.

Archimedes Club Donors

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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

Alexander Holley Society Donors

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2023 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.

RALPH COATS ROE MEDAL

Winston Oluwole Soboyejo, Ph.D., ASME Fellow, was the recipient of the 2023 Ralph Coats Roe Medal, honoring his work in the development of fracture mechanics approaches to the prediction of fatigue and fracture in advanced structural alloys/composites; biomaterials and bio-inspired structures; efficient low-cost cells/light emitting devices/batteries; and materials for water filtration and sustainable housing.

Dr. Soboyejo has been the Provost and Senior Vice President of the Worcester Polytechnic Institute (WPI) since 2018. He served as WPI's Interim President from May 2022 until April 2023 and as the Bernard M. Gordon Dean of Engineering from September 2016 until October 2018.

The medal was presented to Dr. Soboyejo at a special plenary session held on June 4th at the 2023 ASME Annual Meeting in St Louis, MO.



Photo: ASME President (2022-2023) Karen Ohland presents Dr. Soboyejo with the 2023 Ralph Coats Roe Medal following his lecture in St. Louis, MO.

HONORARY MEMBERS

Dereje Agonafer, Ph.D., Fellow
Joseph J. Beaman, Ph.D., Fellow
Ali Erdemir, Ph.D., Fellow
Azad M. Madni, Ph.D., Member
Judith A. Todd, Ph.D., Fellow

ASME MEDAL

Huajian Gao, Ph.D., Fellow

ADAPTIVE STRUCTURES AND MATERIAL SYSTEMS AWARD

Aditi Chattopadhyay, Ph.D., Fellow

AVRAM BAR-COHEN MEMORIAL MEDAL

Sreekant Narumanchi, Ph.D., Fellow

BARNETT-UZGIRIS PRODUCT SAFETY DESIGN AWARD

Costin D. Untaroiu, Ph.D., Fellow

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Xiao-Ming Zhang, Ph.D.
Dong Zhang, Ph.D.
Markus Meurer
Thomas Bergs, Ph.D.
Han Ding, Ph.D.

BERGLES-ROHSENOW YOUNG INVESTIGATOR AWARD IN HEAT TRANSFER

Rohini Bala Chandran, Ph.D.

PER BRUEL GOLD MEDAL FOR NOISE CONTROL AND ACOUSTICS

Xin Zhang, Ph.D., Fellow

EDWIN F. CHURCH MEDAL

Volker Sick, Ph.D., Member

THOMAS K. CAUGHEY DYNAMICS MEDAL

Haiyan Hu, Ph.D.

DANIEL C. DRUCKER MEDAL

Arun Shukla, Ph.D., Fellow

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Jian Cao, Ph.D., Fellow

THOMAS A. EDISON PATENT AWARD

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Brian K. Post, Ph.D.
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Alex C. Roschli
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William P. King, Ph.D. Fellow

NANCY DELOYE FITZROY AND ROLAND V. FITZROY MEDAL

Gwendolyn E. Boyd

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Fotis Sotiropoulos, Ph.D., Fellow

FREEMAN SCHOLAR AWARD

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Y.C. FUNG EARLY CAREER AWARD

Jessica M. Oakes, Ph.D., Member

GAS TURBINE AWARD

Jinwook Lee Ph.D., Fellow
Zoltán S. Spakovszky, Ph.D., Fellow
Edward M. Greitzer, Ph.D., Fellow
Mark Drela, Ph.D.
Jérôme Talbotec

HENRY LAURENCE GANTT MEDAL

Guru Madhavan, Ph.D., Fellow

EDWARD GROOD INTERDISCIPLINARY TEAM SCIENCE MEDAL IN BIOENGINEERING

The Spine Research Interdisciplinary Team

J.P. DEN HARTOG AWARD

Steven Shaw, Ph.D., Member

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Shapour Azarm, Ph.D., Fellow

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(Gold) Sajon Seaberg, Member
(Silver) Sam Gibson, Member

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Yinji Ma, Ph.D.
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Ying Chen, Ph.D.
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MCDONALD MENTORING AWARD

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NADAI MEDAL

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BURT L. NEWKIRK AWARD

Melih Eriten, Ph.D., Member

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OUTSTANDING STUDENT SECTION ADVISOR MEDAL

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George J. Nelson, Ph.D., Member

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HENRY R. WORTHINGTON MEDAL

Mehrdad Zangeneh, Ph.D., Fellow

S.Y. ZAMRIK PRESSURE VESSEL AND PIPING MEDAL

Douglas A. Scarth, Ph.D., Fellow



	2024	2023
Net assets without donor restrictions:		
Operating revenue:		
Membership dues, publications, accreditation, conference fees, and other revenue by sector/operating unit:		
Standards operations	\$ 70,179,493	107,764,017
Engineering operations	36,167,966	34,749,494
Learning and development	5,666,180	5,234,463
Philanthropic programs	1,609,830	1,924,971
Technical events and content	10,149,266	8,889,588
Publications	14,060,025	13,808,140
Constituent engagement	6,593,290	6,869,752
Miscellaneous revenue	1,526,386	1,998,676
Total operating revenue	145,952,436	181,239,101
Net assets released from restrictions	1,208,452	849,229
Total operating revenue and other support	147,160,888	182,088,330
Operating expenses:		
Program services by sector/operating unit:		
Standards operations	17,849,406	58,166,300
Engineering operations	16,461,939	16,148,258
Learning and development	6,025,623	5,315,136
Philanthropic programs	9,555,600	8,193,790
Technical events and content	20,003,866	18,731,344
Publications	8,989,392	9,703,169
Constituent engagement	3,931,044	4,057,126
Global public affairs	5,368,371	4,108,457
Industry events	—	374,376
Total program services	88,185,241	124,797,956
Supporting services:		
Marketing	17,299,539	12,565,819
Sales and customer care	2,462,926	7,054,894
General administration	39,973,630	61,470,602
Total supporting services	59,736,095	81,091,315
Total operating expenses	147,921,336	205,889,271
Deficit of operating revenue over expenses before lease cessation	(760,448)	(23,800,941)
Lease cessation	17,067,374	—
Deficit of operating revenues over expenses	(17,827,822)	(23,800,941)
Nonoperating activities:		
Investment return, net	19,454,050	10,750,549
Gain on sale of subsidiary, net of transaction costs	—	47,687,691
Post-retirement changes other than net periodic costs	694,639	274,220
Other components of net periodic costs	198,344	89,813
Present value adjustment to annuities payable	(51,732)	—
Interest expense	—	(1,360,228)
Income tax expense	—	(183,649)
Total nonoperating activities	20,295,301	57,258,396
Increase in net assets without donor restrictions	2,467,479	33,457,455
Net assets with donor restrictions:		
Contributions	1,293,175	1,480,432
Investment return, net	2,552,055	1,908,932
Present value adjustment to annuities payable	(28,413)	(9,785)
Net assets released from restrictions	(1,208,452)	(849,229)
Increase in net assets with donor restrictions	2,608,365	2,530,350
Increase in net assets	5,075,844	35,987,805
Net assets at beginning of year	177,213,761	141,225,956
Net assets at end of year	\$ 182,289,605	177,213,761

	2024	2023
Assets		
Cash	\$ 25,645,636	86,975,232
Accounts receivable, less allowance for doubtful accounts of \$179,000 and \$184,000	21,620,513	15,465,524
Prepaid expenses, deferred charges, and other current assets	8,530,078	6,824,071
Investments	200,549,282	139,589,135
Restricted cash	2,543,707	2,503,678
Furniture, equipment, software, and leasehold improvements, net	4,764,597	9,265,912
Operating lease right-of-use assets	2,511,690	20,139,910
Total assets	\$ 266,165,503	280,763,462
Liabilities and Net Assets		
Liabilities:		
Accounts payable and accrued expenses	\$ 13,283,765	16,161,660
Accrued employee benefits	22,910,554	22,256,864
Deferred publications and subscriptions revenue	6,139,840	20,278,646
Accreditation and other deferred revenue	20,861,793	19,002,560
Lease liabilities	20,679,946	25,849,971
Total liabilities	83,875,898	103,549,701
Commitments		
Net assets:		
Without donor restrictions	158,981,812	156,514,333
With donor restrictions	23,307,793	20,699,428
Total net assets	182,289,605	177,213,761
Total liabilities and net assets	\$ 266,165,503	280,763,462

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2024

Annual Report