

# ANNUAL REPORT 2023



**1880**  
Year ASME was Established

**85,000+**  
ASME Members,  
including Students and  
Early Career Engineers

**23,000+**  
ASME Student Members

**15,000+**  
ASME Early Career Engineer Members,  
including Graduate Students

**145+**  
Countries with ASME Members

**3,700+**  
Active Volunteer Leaders

**39**  
Technical Divisions/Research  
Committees

**560+**  
ASME Standards

**100+**  
Countries using the  
ASME Boiler & Pressure  
Vessel Code



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**ASME Mission**  
To advance engineering for the  
benefit of humanity

**ASME Vision**  
To be the premier resource for the  
engineering community globally

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

**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
- Respect and document engineering history while continually embracing change
- Promote the technical and societal contribution of engineers



LETTER FROM THE  
**President and Executive  
Director/CEO**

ASME continues to respond to the constant social and environmental challenges in today's world and is focused on its long-term goals and strategic priorities under the direction of the Board of Governors and ASME's Executive Team. By doing so, we have gained greater awareness of the challenges and opportunities facing engineers throughout the world while making the necessary decisions to provide clear direction and guidance for ASME's promising future. ASME's role in addressing climate change, revenue diversification, and the integration of ASME's products, programs, and services aim to support the profession and the engineer's lifelong journey.

We further developed and executed ASME's Diversity, Equity, and Inclusion initiatives and have remained focused on DEI throughout the Society. These initiatives have created an environment that welcomes and respects people of all backgrounds in our engineering community.

In FY2023, ASME generated \$182 million in revenue and nearly \$11 million of operating cash flow. We were able to achieve these results in the second year of the boiler code cycle while continuing to invest in our digital transformation initiatives. Additionally, in FY23 we improved our financial strength to allow ASME the ability to continue to be impactful in the future.

As we confront the challenges created by our changing climate, ASME provided support and guidance on Climate Change formalizing ASME's climate change position statement and introducing ASME's Committee on Sustainability. We also formed a Hydrogen for the Green Economy Steering Committee to identify industry needs, we believe that climate action is and will be the work of generations and ASME aspires to exert a consistent and positive influence in this endeavor.

Through Education that Inspires, helping young people pursue Careers that Matter, to nurturing Ideas that Innovate, the ASME Foundation continues to open the world of engineering to diverse young people who will transform the world. We are pleased to report that in our support of women and other underrepresented groups, the ASME Foundation has awarded nearly 40 percent of its scholarships to female students.

We contend that a prepared, trained, and skilled workforce will need to hit the ground running to keep pace the constant evolution of technological advancements and the demands of a growing global population. ASME supports that work with our Learning and Development programs, global conferences, workshops, and popular student events and competitions, such as the Engineering Festivals (E-Fest) and the Innovation Showcase (I-SHOW).

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

Karen J. Ohland, M.S.  
President (2022-2023)



Thomas Costabile, P.E.  
Executive Director/CEO







## FY2023 Board of Governors

Front row L to R

**Tommy Gardner, Ph.D.**  
Chief Technology Officer  
HP Federal

**Karen J. Ohland, M.S.**  
ASME President (2022-2023)  
Associate Director for Finance and Operations  
Princeton University Art Museum  
Princeton University

**Thomas Costabile, P.E.**  
President and Chief Technology Officer  
Oehring Advisors LLC  
ASME

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

Back row L to R

**Thomas R. Kurfess, Ph.D., P.E.**  
Executive Director  
Georgia Tech Manufacturing Institute

**Richard C. Marboe, Ph.D.**  
Former Director, Engineering Services  
Applied Research Laboratory  
Penn State University (Retired)

**Jared M. Oehring**  
President and Chief Technology Officer  
Oehring Advisors LLC

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

**Patrick H. Vieth**  
Senior Vice President  
Dynamic Risk

**Paul D. Stevenson**  
Executive Vice President/Partner  
McCormick Stevenson Corporation

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

**Susan Ipri-Brown**  
Associate Dean for Educational  
Outreach and  
Associate Professor of Engineering  
Instruction  
Hope College

Not pictured:  
**Mahantesh Hiremath, Ph.D., P.E.**  
(Immediate Past President)  
Vice President, Mechanical and  
Aerospace Engineering SC Solutions

## FY2023 Society Officers

**Tom Costabile, P.E.**  
Executive Director/CEO  
ASME

**William Garofalo**  
Chief Financial Officer  
ASME

**John Delli Venneri**  
ASME Assistant Secretary  
General Counsel

## FY2023 Senior Vice Presidents

**Nicole Kaufman Dyess**  
ASME Student & Early Career Development  
Principal  
Nicole Kaufman Dyess LLC

**Thomas P. Pastor, P.E.**  
ASME Standards & Certification  
Consulting Engineer  
Hartford Steam Boiler

**Michael S. Roy, P.E.**  
ASME Member Development & Engagement  
Vice President  
Engineering  
Hartford Steam Boiler

**Robert J. Stakenborghs, P.E.**  
ASME Technical & Engineering Communities  
Principal/Director of Sensor Systems Innoveering LLC

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

## FY2023 Executive Team

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

**Chandra Clouden**  
Chief Human Resources Officer

**John Delli Venneri**  
General Counsel

**William Garofalo**  
Chief Financial Officer

**Michael W. Johnson**  
Chief Strategy Officer

**Jeff Patterson**  
Chief Operating Officer

**Allian Pratt**  
Chief Leadership Engagement Officer

**Karen E. Russo**  
Director  
Executive Operations & Strategic Communications



# 2023 Year In Review



## National Standards Strategy

ASME, which represents more than 85,000 engineers in the United States and worldwide and sets international engineering standards, joined with U.S. Government agencies, Congress, industry, and academia at the White House on May 4, to provide input on a new National Standards Strategy for Critical and Emerging Technologies. VVASME Chief Strategy Officer Michael Johnson represented the engineering community at the event. "As a standards leader in a variety of essential technology areas, ASME plays a vital role in the development and adoption of emerging technologies globally. We believe that collaborative, consensus-based technology standards are essential to promoting the safety, reliability, and sustainability of innovations," said ASME Executive Director/CEO Thomas Costabile.



## Climate Change Statement

In 2023, the ASME Board of Governors completed the first public step in illustrating the urgency of climate change. ASME's Climate Position Statement outlines the Society's stance on climate change and sets the tone for further action. The statement acknowledges accepted facts and begins to detail the part we as an organization and the global engineering community play in addressing those challenges. The position statement received overwhelming support from ASME's Sector and Division leaders, as well as from the Industry Advisory Board, in a thorough process which was shepherded in a cross-functional collaboration between ASME staff and volunteer leaders.



## Advanced Manufacturing

ASME Governor Dr. Thomas R. Kurfess (now ASME President) and Governor-Elect Dr. Kathryn W. Jablolkow (now Governor) both served on the National Academy of Engineering committee to determine the extent to which advanced manufacturing technologies are treated in undergraduate engineering education, and to explore ways to foster the integration of such technologies into classrooms to prepare students to enter the workforce. The report, published in 2022, also emphasized the critical need for engineers with knowledge and skills in advanced manufacturing to support a strong defense industrial base.



## Regenerative Medicine

On January 25, 2023, ASME Government Relations hosted a virtual webinar for industry leaders and federal policymakers to address the opportunities and challenges in regenerative medicine. Leaders representing various sectors of the biomanufacturing, and regenerative medicine community provided a snapshot of current advancements in the field, as well as the scientific, regulatory, and business challenges impacting these advances.



## STEM Education

ASME DropMEIn! sessions bring engineers into classrooms to share the impact of "problem-solving for good" through the lens of STEM, specifically engineering. In FY23, ASME expanded its K-12 engagement paths to include monthly visits to the same classrooms, embracing depth of experience versus scale; teacher training sessions on how best to integrate engineering into classroom experiences; industry field trips and summer camp programming. The net result was eighty-eight K-12 student events producing over 180 hours of learning on a vast array of topics including energy sources & systems, water insecurity, Earth's environment, manufacturing, robotics/AI/data, and space exploration.



## Nuclear Power

On March 28, 2023, ASME hosted a virtual congressional briefing on the topic Deploying Advanced Nuclear Technologies at Scale. Nuclear power has provided the United States and the world with a clean, reliable, and affordable source of electricity for the last half century. Last year, nuclear power provided over 770 million MWh, providing 19% of total U.S. electricity generation, and about half of all clean energy generation. Recent bipartisan support for nuclear energy research, development, and deployment has spurred dozens of companies to move ahead with their first-of-a-kind, smaller, and easier to site and construct nuclear power plants in North America and abroad.



## Lensometer Landmark

On March 25, 2023, ASME designated the American Optical Company (AO) Lensometer as a Historic Mechanical Engineering Landmark. A ceremony celebrating the technology was held at the Optical Heritage Museum in Southbridge, Mass. The museum displays the oldest operational unit in the world. Seen by many as a revolutionary breakthrough in the engineering world, the 1921 AO Lensometer enabled many of the advancements in the optical industry we take for granted today. Prior to the Lensometer, optical professionals had no practical method to check if custom-made lenses produced to an individual prescription were of the proper power. If you wear glasses, it's likely your optometrist used a lensometer to determine their power.



## Centennial Anniversary

The ASME Auxiliary marked its 100th anniversary with a ceremony held at the 2023 Annual Meeting in St. Louis, MO. In 1906, the Ladies Committee organized activities for female attendees at ASME meetings. But it wasn't until 1923, under the leadership of Harriett Fowler, that the newly renamed Women's Auxiliary of ASME was officially established. Their dedication and tireless efforts have resulted in the creation of scholarship funds for both undergraduate and graduate students. This academic year alone, 37 scholarships were awarded from 12 different funds. *[photo left to right: ASME President Karen Ohland, Auxiliary President Ella Baldwin-Viereck, and ASME Executive Director/CEO Tom Costabile]*

## In Remembrance of their Leadership and Service to ASME



1927-2023  
Keith B. Thayer  
ASME Past President (1997-98)



1923-2023  
Ernest L. Daman  
ASME Past President (1988-1989)



1928-2023  
Richard J. Goldstei  
ASME Past President (1996-1997)



1947-2023  
Bryan A. Erler  
ASME Past President (2020-2021)



## ASME President Tom Kurfess

Thomas Kurfess has become ASME's 142nd president. At the Society's June 2023 annual meeting in St. Louis, Mo, the newest ASME leader expressed his eagerness to continue the important work of the Society. "I want to make sure that current and future generations of mechanical engineers are poised to maximize their impact," he said. An active member of ASME for more than 30 years, Dr. Kurfess is the chief manufacturing officer at Georgia Institute of Technology in Atlanta. Executive director of the school's manufacturing institute, he is HUSCO Ramirez Distinguished Chair in Fluid Power and Motion Control and professor in mechanical engineering at George W. Woodruff School of Mechanical Engineering and past assistant director for advanced manufacturing at the U.S. Office of Science and Technology Policy. *[Photo Tom Kurfess receives presidential pin from President Karen Ohland.]*



## 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.

## Board of Directors



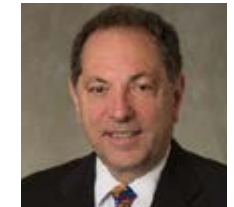
**Frank C. Adamek, P.E.**  
Chair



**Sonya T. Smith, Ph.D.**  
Director



**Oscar Barton, Jr., Ph.D., P.E.**  
Princeton Plasma Physics Laboratory (Retired)



**Thomas Costabile, P.E.**  
Director



**Thomas Meehan**  
Director



**Gretchen Crutchfield**  
Secretary



**Stephanie Viola**  
Executive Director

### 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, Director**  
**Anand Sethupathy**  
**Lester Su**  
**Stephanie Viola**  
**Justin R. Young**

### Campaign for Next Generation Engineers Cabinet

**K. Keith Roe, P.E., Chair**  
**Kenneth R. Balkey**  
**Gwendolyn Boyd**  
**Chandrakant Patel**  
**Carol Dahl**  
**Bob Hauck**  
**William D. Magwood, IV**  
**Thomas D. Pestorius**  
**Gwynne Shotwell**  
**Terry E. Shoup**  
**Jean Zu**

### Philanthropy Staff

**Stephanie Viola**, Executive Director, ASME Foundation; Managing Director, Philanthropy, ASME  
**Keith Miles**, Director, Major Gifts  
**Rebecca Lakhani**, Director, Corporate & Foundation Partnerships  
**Gretchen Crutchfield**, Manager, Individual Giving & Volunteer Engagement  
**Allysa Oliver**, Manager, Development Operations  
**Jarrett Reich**, Corporate and Foundation Communications Specialist  
**Alexis Mohrey**, Development Coordinator  
**Dorothy Keskitalo**, Government Grants Specialist  
**Prathamesh Jadhav**, Program Coordinator  
**Christopher Beard**, Donor Experience Specialist  
**Maksym Watson**, Intern



# Highlights & Milestones



## Education that Inspires

DropMEin! and Engineering Dreams, two of the ASME Foundation's core K-12 STEM readiness programs, reached over 338,000 students during academic year 2022-2023. More than three-quarters of the participating schools are Title 1 qualified, with 56% of students from groups historically underrepresented in STEM studies and career paths.

Professional engineers who participate in ASME's in-class **DropMEin!** initiative reached more than 2,000 K-12 students in FY23, serving as role models and providing examples of real-world problem-solving for good. Engineers from ComEd, a major corporate supporter of the DropMEin! program, shared their STEM journeys and provided real-life, hands-on learning and open dialogue about power distribution, energy sustainability, and STEM career paths to fifth and sixth grade students across the Chicago area.

"The ASME and ComEd DropMEin! program is an ideal way to reach out to younger students and spark their interest in STEM before they reach high school," said Michelle Blaise, ComEd's senior vice president of technical services and a member of ASME Foundation campaign cabinet. "As we work toward a clean energy future, empowering the next generation of the local STEM workforce is crucial, and that starts with providing them the opportunity to learn about, and be inspired by, the many career opportunities in STEM."

### ASME and Autodesk Research the Future of Manufacturing

The changing roles of technical professionals involved in advanced manufacturing is the subject of a report published in September 2022 by ASME in collaboration with Autodesk. The "Future of Manufacturing" investigated

for mechanical engineering, manufacturing engineering, and machinist roles over the next decade as those roles converge and evolve. "Our findings demonstrate a shared commitment between industry and academia to build a bright future for manufacturing," said Simon Leigh, senior manager of design and manufacturing education strategy at Autodesk, who authored a blog post about the project. "Their overlapping interests in embracing emerging technologies, cross-role collaboration, and supplementing degrees with more hands-on learning gives us hope that future workers will be equipped with the skills that are direly needed for success in Industry 4.0."

## Careers that Matter

### ECMC Foundation Grant Fuels Internship Program

An \$800,000 grant to the ASME Foundation by the ECMC Foundation will support ASME's Community College Engineering Pathways Professional Internship Program, which launched earlier in FY2023 to provide career readiness and professional development training for community college students. ASME Foundation works directly with schools and students to provide additional support through professional development courses, technical workshops, and ASME student membership activities. Qualifying participants are guaranteed a six- to ten-week summer internship at participating employers, including TAS Energy, JTEKT, ComEd, Institute for Advanced Learning and Research, Siemens Energy, and ASME.

## Ideas that Innovate

### ISHOW Innovators Advancing Global Sustainability

ASME's ISHOW USA, one of three annual ISHOWs around the world, received over 265 applications from 20 countries in FY23, compared to an average of 150-160 applications in previous years. Together, ISHOW selects nine social entrepreneurs each year to receive technical guidance, business insight, and seed funding to advance their innovations from the prototype stage to market-ready products. Every ISHOW, or Innovation Showcase, entry addresses one or more of the United Nations Sustainable Development Goals.

Among the innovations selected for ISHOW 2022 were a Wayru, a portable shower from Peru; Energy Adaptive Hydro™, a rapidly deployable, modular hydropower system from the U.S.; and from India, MamaOpe, a non-invasive tool designed to accurately screen for respiratory diseases in low-resource settings using patient vitals.

### Most E4C Impact Projects Ever!

In FY2023, more than 120 Engineering for Change Impact Projects were completed, involving over 90 collaborating organizations worldwide. The projects addressed 15 of the 17 U.N. Sustainable Development Goals.

For example, one E4C Fellow pursued the design of an adjustable sensor for water monitoring, while another designed a device to cut tomatoes automatically. Autodesk Foundation sponsored E4C Fellows to work on a masterplan for a hospital in Haiti and building plans for a do-it-yourself greenhouse, among others.

The 2023 cohort of 65 E4C Fellows is the largest yet, thanks to a significant donation by the Autodesk Foundation. Since its inception, more than 200 E4C Fellows have participated from six continents. Of these, 45 percent are women.

E4C Fellows are early-career engineers who pursue either original research or field-based Impact Projects that address the UN SDGs. The six-month fellowships are funded through donations to the ASME Foundation.



## A More Sustainable Future

"Engineering a Sustainable Future" was the theme of a briefing for Silicon Valley tech leaders conducted by the ASME Foundation on September 29, 2022. The event highlighted ASME's philanthropic workforce development and sustainability programs, which are funded in part by ASME's Campaign for Next Generation Engineer, and engaged industry leaders from Google, Intel, Johnson & Johnson, and HP, Inc.

A highlight of the event was the inaugural presentation of the ASME Foundation's Next Gen Award to Chandrakant Patel, chief engineer and senior fellow at Hewlett Packard, Inc. and a member of the ASME Foundation's Campaign Cabinet. Chandrakant was honored for his work to create tech-related employment opportunities for those with two-year community college degrees.



Left to right: Stephanie Viola, Executive Director, ASME Foundation; Chandrakant Patel, Professor, Department of Mechanical Engineering at Howard University & Chair, ASME Foundation Board.



ASME Past President Mahantesh Hiremath (left) presents the ASME Foundation's Next Gen Award to Chandrakant Patel.

## Reinventing the Future

In April 2023, the ASME Foundation hosted "Reinventing the Future," a fundraising event for 230 people at Washington, D.C.'s historic Willard Intercontinental Hotel. Honoring a trailblazing engineer, showcasing our ASME-supported innovators, and engaging an audience composed primarily of African American leaders from across the professional spectrum all contributed to a memorable and uplifting evening.

The program featured two extraordinary women, both engineers of color: Dr. Gwendolyn E. Boyd, who became the first woman to receive the prestigious ASME Fitzroy Medal; and Tinia Pina, co-founder and CEO of ReNuble, the 2020 ISHOW USA winner that helps farmers convert agricultural waste into nutritious, organic food. Other speakers included Lt. Governor Aruna Miller of Maryland, engineering professor and founder of STEM NOLA Dr. Calvin Mackie, ASME Executive Director/CEO Tom Costabile, and humorist/journalist Mo Rocca, the evening's emcee.

Event champions included ComEd and Autodesk, and sponsors AronsonCare; Ansys; MedStar Health; National Renewable Energy Laboratory; PSM, a Hanwha Company; and Keith and Brownie Roe.

Funds raised in connection with the event benefited the new Dr. Gwendolyn E. Boyd Endowed Scholarship Fund for Equity in Engineering and ASME's philanthropic programs.

A second annual Reinventing the Future Event is scheduled for March 21, 2024, in Washington, D.C. The ASME Foundation's Spring Gala is scheduled for April 11, 2024 in New York City.



Photo left to right: Maryland Lt. Governor Aruna Miller with Dr. Gwendolyn Boyd, and ASME Executive Director/CEO Tom Costabile.



Fitzroy Medal honoree Dr. Gwendolyn E. Boyd, front row center, with members of the Delta Sigma Theta Sorority.



Stephanie Viola

## Foundation Staff Update

Early in FY2023, Stephanie Viola, formerly director of corporate and foundation relations, was named executive director of the ASME Foundation and managing director, ASME Philanthropy. Replacing her as the new director of corporate and foundation partnerships was Rebecca Lakhani.

The ASME Foundation Board of Directors welcomed two new members, Dr. Sonya Smith and Dr. Oscar Barton, Jr., both distinguished engineering educators and advocates for greater diversity, equity, and inclusion across the engineering community.



# ASME Foundation Supporters and Beneficiaries

## Michelle Delk, Scholarship Recipient

In FY2023, the ASME Foundation awarded 163 scholarships valued at \$587,000. More than half of scholarship recipients are from groups that are significantly underrepresented in engineering, notably women and students of color. But numbers alone don't reveal the true impact of donors' generosity. For that, one need only ask Michelle Delk, a mechanical engineering student at the University of Texas, Arlington.

Michelle is the recipient of two ASME scholarships, the Carolyn and James M. Chenoweth Scholarship and the Costabile Family Endowed Scholarship for Women in Engineering. When tragedy struck her small family, the support she received from the ASME Foundation enabled this aspiring engineer to continue with her studies.

**"I can't thank you enough or tell you how much it means to me to be the recipient of these scholarships," she said. "I am a single mother, and this financial support helps us out tremendously. Someone else who would have been here to thank you is my little brother, James, who I was living with and we were supposed to take turns going to school. Shortly after applying for the scholarship, my brother died tragically in an accident. Now this support means more to me than ever. All of the people I've met and the friends I've made at ASME, I just couldn't be more thankful for the blessings this organization has given me. I am an ASME Scholar, and you can be one, too."**



Michelle Delk



Taira Bell



Reuben Bell

## Individual Donors

### Taira and Reuben Bell, Individual Donors

Reuben and Taira Bell attended the same HBCU—Southern University and A&M College—worked at the same company, Johnson & Johnson, and today support the same philanthropic organization, the ASME Foundation, as members of the prestigious Alexander Holley Society.

After 23 years at J&J, Reuben Bell left to serve as president of QPSI, the largest privately owned contract packaging company in the U.S. His wife, Taira, is Vice President, Global Brand Protection, at Johnson & Johnson. Together, this powerhouse couple supports the ASME Foundation's work to advance equity in engineering and sustainability for the world.

Reuben's connection to ASME runs long and deep. In college, he was the ASME Student Chapter president. More recently, he served as a member of the Host Committee for the Foundation's April 2023 "Reinventing the Future" fundraising event in Washington, D.C., when both Reuben and Taira made a significant gift in support of The Dr. Gwendolyn E. Boyd Endowed Scholarship Fund for Equity in Engineering.

## Corporate Donor

There are lots of reasons why companies choose to support the ASME Foundation. For some, it's an investment in the communities where they operate. Others recognize the value of building tomorrow's diverse technical workforce. Many align with a charitable cause as a way to engage their employees. For Pennsylvania-based Ansys, Inc., being a champion of the work of the ASME Foundation combines all these motivations and more.

Ansys is a generous donor to ASME Foundation Scholarships. For the third year running, in FY2023, the company funded four scholarships earmarked for brilliant female mechanical engineering students with the aim of increasing diversity among future engineers. The company also supported ASME's milestone "Reinventing the Future" event in Washington, D.C. where the Foundation celebrated its progress toward its goal of achieving equity in engineering.

Ansys, Inc., is the world's largest provider of engineering simulation software. In addition to funding ASME Foundation Scholarships, the company is a global leader in STEM education, providing training, free software, and student competitions to aspiring technical professionals in 124 countries.





## Archimedes Club Members



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.

### MEMBERS

P. J. Jim Adam  
Mahesh Aggarwal  
Ruthann Bigley  
Betty Bowersox  
Merle & Virgil Carter  
James Coaker  
Lynden Davis  
Daniel Deckler  
John Eustis  
Nancy & Roland Fitzroy  
Donald Frikken  
Marc Goldsmith  
Kalan Guiley  
Philip Hamilton  
Francesca & Joe Holm  
Jennifer Jewers Bowlin  
Henry Koenig  
Warren Leonard  
E. Roland Maki  
Alma Martinez Fallon  
Loretta McHugh

Magda & Michael Michaud  
John Mihm  
Michael Molnar  
Ozden Ochoa  
Robert Pangborn  
Richard Pawliger  
Craig Redding  
Victoria Rockwell  
K. Keith Roe  
Ester & Richard Rosenberg  
Betsy & Terry Shoup  
Kathryne & Robert Simmons  
James Skakoon  
Susan Skemp  
Pamela & David Soukup  
John Swanson  
Yulin & Chor Tan  
Eileen & William Weiblen  
Justin Young  
Myrna & Sam Zamrik



## Alexander Holley Society Members



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

### MEMBERS

Frank Adamek  
Michael Adams  
Mahesh Aggarwal  
Annemarie Appleton  
Bala Balachandran  
Kenneth Balkey  
Zdenek Bazant  
Reuben Bell  
Sidney Bernsen  
Lisa Bessler  
Andrew Bicos  
Keith Bloesch  
Diane Bock  
Daisie Boettner  
Betty Bowersox  
Gwendolyn Boyd  
Stephen Brunkhorst  
Jian Cao  
Bonnie Costabile  
Thomas Costabile  
Joseph Davidson  
Lynden Davis  
Peter DeMarco  
Warren DeVries  
Eric Ducharme  
Nicole Dyess  
Gerry Eisenberg  
Bryan Erler  
Todd Fernstrum  
Alvin Filstrup  
Mark Finley  
Joe Fowler  
James Froula  
Robert Giardina  
Brent Gilliland  
John Greaney  
Thomas Greider  
Robert Grimes  
Edward Grood

Kalan Guiley  
Krishna Gupta  
Michele Hagans  
John Hallquist  
Artis Hampshire-Cowan  
John Hasselmann  
Bob Hauck  
Elizabeth Hedden  
Mahantesh Hiremath  
Freeman Hrabowski  
Patricia Hunt  
Susan Ipri Brown  
Eric James  
Jennifer Jewers Bowlin  
Erik Johnson  
Michael Johnson  
Barbara Johnson  
Wayne Johnson  
Robert Keating  
Madiha Kotb  
Ritesh Lakhkar  
Karen Lee  
Calvin Mackie  
Ravi Mahajan  
Tobi Majekodunmi  
Robert Manross  
Richard Marboe  
Donald Marshall  
Camelia Mazard  
David McClure  
Thomas Meehan  
Joseph Milton  
Thomas Mowry  
Jayathi Murthy  
J. Myers  
Chandra Nath  
Jessica Oakes  
Jared Oehring  
Karen Ohland

John Olin  
Gary Park  
Jeffrey Patterson  
Henry Peelle  
Thomas Pestorius  
William Racine  
Ryan Reardon  
Kevin Reedy  
Michael Reedy  
K. Keith Roe  
Boris Rubinsky  
Steven Rutter  
Douglas Scarth  
A Edward Scherer  
Anand Sethupathy  
Ting-Leung Sham  
Terry Shoup  
Carmen Sidbury  
J. Robert Sims  
Robert Skaggs  
Janay Smith  
Sonya Smith  
Fotis Sotiropoulos  
Walter Sperko  
Stuart Speyer  
Scott Stallard  
John Swanson  
Samuel Thomas  
David Thompson  
John Thompson  
Patrick Vieth  
Stephanie Viola  
Thomas Washburn  
John Wiechel  
David Wing  
Justin Young  
Sam Zamrik  
Mohamed Zarrugh



# Recipients of ASME Honors and Awards - 2022

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.

Katepalli R. Sreenivasan 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. Sreenivasan serves as University Professor and Eugene Kleiner Chair of Innovation, Professor of Mechanical and Aerospace Engineering, Professor Physics, and Professor at the Courant Institute of Mathematical Sciences at New York University. He is a Fellow of ASME, a member of the U.S. National Academy of Sciences, the American Academy of Arts and Sciences, and the U.S. National Academy of Engineering.

His research interests include fluid mechanics and turbulence, complex fluids, nonlinear dynamics, nonequilibrium phenomena and cryogenic helium. His emerging interests are in mathematical modeling of global change and biomechanical phenomena.



Katepalli R. Sreenivasan

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Hardayal S. Mehta, Ph.D., Fellow



	2023	2022
Net assets without donor restrictions:		
Operating revenue:		
Membership dues, publications, accreditation, conference fees, and other revenue by sector/operating unit:		
Standards operations	\$ 107,764,017	126,477,075
Engineering operations	34,749,494	32,025,334
Learning and development	5,234,463	4,193,190
Philanthropic programs	1,924,971	2,661,863
Technical events and content	8,889,588	4,827,862
Publications	13,808,140	13,671,546
Constituent engagement	6,869,752	8,176,426
Miscellaneous revenue	1,998,676	2,809,743
<b>Total operating revenue</b>	<b>181,239,101</b>	<b>194,843,039</b>
Net assets released from restrictions	849,229	1,302,221
<b>Total operating revenue and other support</b>	<b>182,088,330</b>	<b>196,145,260</b>
Operating expenses:		
Program services by sector/operating unit:		
Standards operations	58,166,300	58,032,991
Engineering operations	16,148,258	15,224,864
Learning and development	5,315,136	4,694,059
Philanthropic programs	8,193,790	6,159,271
Technical events and content	18,731,344	13,469,694
Publications	9,703,169	10,436,827
Constituent engagement	4,057,126	3,834,361
Global public affairs	4,108,457	3,955,436
Industry events	374,376	1,551,833
<b>Total program services</b>	<b>124,797,956</b>	<b>117,359,336</b>
Supporting services:		
Marketing	12,565,819	10,503,012
Sales and customer care	7,054,894	5,420,661
General administration	61,470,602	50,811,349
<b>Total supporting services</b>	<b>81,091,315</b>	<b>66,735,022</b>
<b>Total operating expenses</b>	<b>205,889,271</b>	<b>184,094,358</b>
(Deficit) excess of operating revenues over expenses	(23,800,941)	12,050,902
Nonoperating activities:		
Investment return, net	10,750,549	(13,868,041)
Gain on sale of subsidiary, net of transaction costs	47,687,691	-
Post-retirement changes other than net periodic costs	274,220	413,779
Other components of net periodic costs	89,813	36,877
Interest expense	(1,360,228)	(1,042,395)
Income tax expense	(183,649)	(1,162,399)
<b>Total nonoperating activities</b>	<b>57,258,396</b>	<b>(15,622,179)</b>
Increase (decrease) in net assets without donor restrictions	33,457,455	(3,571,277)
Net assets with donor restrictions:		
Contributions	1,480,432	968,479
Investment return, net	1,908,932	(2,520,652)
Present value adjustment to annuities payable	(9,785)	(32,536)
Net assets released from restrictions	(849,229)	(1,302,221)
<b>Increase (decrease) in net assets with donor restrictions</b>	<b>2,530,350</b>	<b>(2,886,930)</b>
<b>Increase (decrease) in net assets</b>	<b>35,987,805</b>	<b>(6,458,207)</b>
Net assets at beginning of year	141,225,956	147,684,163
Net assets at end of year	<b>\$ 177,213,761</b>	<b>141,225,956</b>





<b>Assets</b>	<b>2023</b>	<b>2022</b>
Cash	\$ 86,975,232	28,527,451
Accounts receivable, less allowance for doubtful accounts of \$184,000 and \$452,000	15,465,524	26,928,288
Prepaid expenses, deferred charges, and other current assets	6,824,071	25,852,412
Investments	139,589,135	119,843,214
Restricted cash	2,503,678	—
Furniture, equipment, software and leasehold improvements, net	9,265,912	18,603,744
Operating lease right-of-use assets	20,139,910	—
Deferred tax assets, net	—	6,471,896
Intangible assets, net	—	7,341,370
Goodwill, net	—	22,355,438
<b>Total assets</b>	<b>\$ 280,763,462</b>	<b>255,923,813</b>
<b>Liabilities and Net Assets</b>		
<b>Liabilities:</b>		
Accounts payable and accrued expenses	\$ 16,161,660	21,586,595
Accrued employee benefits	22,256,864	15,945,556
Deferred publications and subscriptions revenue	20,278,646	31,908,010
Accreditation and other deferred revenue	19,002,560	17,399,467
Operating lease liabilities	25,849,971	—
Debt facilities	—	21,125,000
Deferred rent	—	6,733,229
<b>Total liabilities</b>	<b>103,549,701</b>	<b>114,697,857</b>
<b>Net assets:</b>		
Without donor restrictions	156,514,333	123,056,878
With donor restrictions	20,699,428	18,169,078
<b>Total net assets</b>	<b>177,213,761</b>	<b>141,225,956</b>
<b>Total liabilities and net assets</b>	<b>\$ 280,763,462</b>	<b>255,923,813</b>

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