

ASME FOUNDATION ANNUAL UPDATE FY2021





1880

Year ASME was Established

90,000+

ASME Members,
including Students and
Early Career Engineers

23,000+

ASME Student Members

15,000+

ASME Early Career Engineer Members,
including Graduate Students

135+

Countries with ASME Members

3,700+

Active Volunteer Leaders

560+

ASME Standards

100+

Countries using the
ASME Boiler & Pressure
Vessel Code



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

Our Credo

Setting the Standard...

- In Engineering Excellence
- In Knowledge, Community, and Advocacy
- For the Benefit of Humanity



THOMAS COSTABILE, P.E.
EXECUTIVE DIRECTOR AND CEO



BRYAN A. ERLER, P.E.
PRESIDENT (2020-2021)

Letter from ASME's President and Executive Director

Despite the ever-changing landscape brought about by the COVID-19 pandemic, fiscal year 2021 was a year of significant achievements for ASME. The perseverance and dedication of ASME volunteers, partners, and staff enabled us to keep engineering at the forefront of innovation while staying focused on our mission to advance engineering for the benefit of humanity.

We are grateful for the steady guidance provided by the ASME Board of Governors and the leadership of the Society, as they made decisions to keep our staff, members, and the engineering community at-large healthy and safe. ASME staff successfully operated in a work-from-home protocol, and all ASME meetings and events were conducted virtually. In doing so, we kept the health and well-being of everyone our priority.

These decisions notwithstanding, ASME operations and programs continued to thrive and emerged stronger than ever.

ASME formed the International Society of Interdisciplinary Engineers, LLC (ISIE), a new for-profit subsidiary to house business ventures that will bring new and innovative products, services, and technologies to the engineering community. In November 2020, TechStreet joined ISIE as the first business venture acquired under this new structure. The combined expertise of ASME and TechStreet—along with their proprietary technologies and operational knowledge—will create unique value for the global standards community.

We are very pleased to report that, even in a year marred by economic downturns, the ASME Foundation made significant headway in its donor base and fundraising goals for ASME's Campaign for Next Generation Engineers. With an ambitious five-year goal to raise \$50 million in support of Education that Inspires, Careers that Matter, and Ideas that Innovate, we are grateful for the nearly 6,000 individuals, corporations, and foundations who generously supported ASME's philanthropic programs. To learn more about the ASME Foundation or to donate to ASME's Campaign for Next Generation Engineers, please visit www.asmefoundation.org.

Perhaps one of the more significant undertakings in FY21 was ASME's deep commitment to diversity, equity, and inclusion (DEI) as we continue to celebrate the range of voices, perspectives, backgrounds, and experiences in our Society and the engineering community. It is our conscious intention to promote DEI in our programs, events, and communications, and to create safe spaces for groups and individuals to share concerns and discuss solutions. In pursuing this ongoing work, ASME adheres to three guiding principles: we are a global, diverse, and inclusive Society; we are a Society that adheres to the highest ethical standards; and we are a Society focused on the next generation.

To this end, we are proud to have launched our new DEI Toolkit, a helpful resource for advancing and promoting DEI initiatives throughout the Society. This year we also introduced our DEI Podcast to engage in meaningful conversations with people of diverse backgrounds and experiences from all over the world. Special events like our first Increasing Women in Mechanical Engineering Conference, held in January, gave us an opportunity to discuss engineering education practices and culture as key components in increasing the number of women in the mechanical engineering profession. We also recently held our Women in Standards & Certification event to celebrate the valued participation and contributions of women who serve on ASME's various Standards & Certification committees while providing visibility, networking, and knowledge transfer opportunities for women in attendance.

On behalf of the Board of Governors and the leadership team, we thank you for your ongoing dedication and support of ASME and its mission. It is most gratifying to know that engineers continue to have a significant positive impact on our lives, our communities, and our world—even during the most challenging of times.

Our best wishes for a safe and healthy year,

Thomas Costabile, P.E.
Executive Director and CEO



Bryan A. Erler, P.E.
President (2020-2021)







The ASME Foundation garners support for an array of philanthropic initiatives with one overarching goal: empowering next generation engineers.

These programs seek to advance the values of Equity in Engineering—increasing access to technical careers for those who are underrepresented in the profession—and Equity in Engineering Solutions, making the innovations that improve quality of life available to all, especially those in underserved global communities.

This is the work of the ASME Foundation. What makes it possible are ASME’s unparalleled engineering expertise, vast global network, impactful philanthropic programs...and YOU.

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Princeton Plasma Physics
Laboratory (retired)

Kathleen M. Lobb

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ASME Managing Director, Philanthropy

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Consolidated Edison of NY (retired)

Thomas Costabile, P.E.

ASME Executive Director/CEO

Thomas J. Meehan

ASME Foundation
Treasurer

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Member, ASME Philanthropy Committee
Senior Executive, Westinghouse (retired)

Michelle Blaise

SVP, ComEd, an Exelon Company

Gwendolyn Boyd, Ph.D.

Former President, Alabama State University
Johns Hopkins University, Applied Physics Lab
(retired)

Carol Dahl, Ph.D.

Executive Director, The Lemelson Foundation

Bob Hauck, P.E.

Healthcare Chief Mechanical Engineer, GE
(retired)

William Magwood, IV

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Regulatory Commission

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Member, ASME Philanthropy Committee

Gwynne Shotwell

President, SpaceX

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Professor Emeritus of Mechanical Engineering,
Santa Clara University
Member, ASME Philanthropy Committee

Jean Zu, Ph.D.

Dean of the Schaefer School of Engineering
and Science
Stevens Institute of Technology

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Communications Specialist

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Burns & Roe Enterprises
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Vice Chair
Santa Clara University

Jennifer R. Jewers Bowlin, P.E.

Henderson Engineers

Thomas Costabile, P.E.

ASME Executive Director/CEO

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SC Solutions

Kathleen M. Lobb

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Executive Director
ASME Managing Director,
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Consolidated Edison of NY (retired)

Thomas D. Pestorius

H&P, Inc. (retired)

Lester Su, Ph.D.

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Mechanical Engineering,
Stanford University

Justin R. Young

Denmar Technical Services, Inc.

Gretchen Crutchfield

Development Specialist
ASME Philanthropy

Anand Sethupathy

Managing Director,
ASME Programs

FY2021 HIGHLIGHTS

In a year marked by a global pandemic, economic disruption, and growing awareness of social inequities, ASME's Campaign for Next Generation Engineers expanded its donor base and made significant progress toward its fundraising goals.

Thanks to the support of nearly 6,000 individuals, corporations, and foundations who stepped up to support ASME's philanthropic programs during fiscal year 2021, the Foundation is pleased to report these highlights:

Education that Inspires

- Created an alliance with Discovery Education (DE) to deliver engineering-related STEM curriculum to up to 750,000 K-12 students annually.
- Joined Boeing, Microsoft, Chevron, and P&G as the engineering content anchor in the STEM Careers Coalition™.
- Nearly doubled the number of K-12 students introduced to the E in STEM—from 91,000 students in FY20 to 165,000+ in FY21.
- Launched DropMEIn!, where ASME volunteer engineers shared the wonders of engineering with approximately 500 K-12 STEM students in FY21.
- Increased the value of ASME Foundation Scholarships by 19% over the prior year and increased our Diversity Ratio to 50%.
- Pivoted to 100% digital E-Fest experiences, reaching over 3,000 students from 40+ countries, and added a pilot high school track to E-Fest Digital 2021.

Careers that Matter

- Thanks to a generous donation from the Autodesk Foundation, we doubled the number of Engineering for Change (E4C) Fellowships from 25 to 50.
- Initiated development of the Career Engagement Center, providing a digital platform for aspiring and early-career engineers to recognize and realize their full potential.
- Conceived the Community College Engineering Pathways initiative: ASME's multichannel program to create new two-year and non-traditional pathways leading to skilled technical roles.

Ideas that Innovate

- With support from Siemens USA, launched the INNOVATE FOR IMPACT: Siemens Design Challenge to cultivate solutions to two of the UN Sustainable Development Goals.
- With support from The Lemelson Foundation, pivoted the ASME ISHOW to 100% digital and selected the 2021 cohort of nine social ventures solving critical quality-of-life challenges from over 300+ entrants across the three regional ISHOWs.

Diversity, Equity, and Inclusion

- Held our first Increasing Women in Mechanical Engineering conference, attracting nearly 500 participants.
- Awarded 152* scholarships, thanks to the generosity of many donors, including new corporate support from Ansys, Inc. Nearly half went to women and those who are underrepresented in the engineering profession (*includes ASME Foundation, Auxiliary, and Division awards).
- Awarded half of all E4C Research Fellowships to women.
- Presented the first annual Lakshmi Singh Early Career Leadership Award recognizing an early-career woman engineer who has demonstrated leadership in, commitment to, and continued service with ASME.





In addition to sustaining existing programs, the ASME Foundation laid the groundwork for four new initiatives that will launch in fiscal year 2022.

Community College Engineering Pathways

In alignment with its goal of empowering and growing a more diverse, equitable, and inclusive technical workforce, ASME launched Community College Engineering Pathways (CCEP), a pilot program with at least six community colleges and three Historically Black Colleges and Universities (HBCU). Research indicates that 3.4 million technical positions will be open in STEM-related fields in the U.S. in the next couple years, and ASME's CCEP initiative is designed to create alternative pathways to rewarding technical careers for those with relevant two-year degrees, as well as other certifications.

Career Engagement Center (CEC)

A digital platform where engineering students and early-career engineers and other technical professionals can connect to training opportunities, mentors, internships, employment, and each other. The CEC will enable users to model and simulate alternative career paths and understand the certifications and experience needed to pursue them.

ISHOW Idea Lab

With ASME's successful ISHOW hardware accelerator as the model, the Idea Lab will support social impact entrepreneurs earlier in the product development cycle, providing engineering expertise, business guidance, and seed capital to advance innovations from concept to prototype. Structured as a competition, winning prototypes will be invited to enter ISHOW for help with scaling to market-ready products.

Engineering Dreams/DropMEIn!

In collaboration with Discovery Education, ASME is the engineering content anchor for online curriculum resources aimed at K-12 students. Discovery's ED platform reaches more than 750,000 students, most in Title I schools, with engaging content that emphasizes the E in STEM. DropMEIn! invites ASME members to visit K-12 classrooms, both virtually and in person, to share their experiences as professional engineers and ignite a passion for problem-solving.



IMPACT STORIES

Journey Washingtonhigh

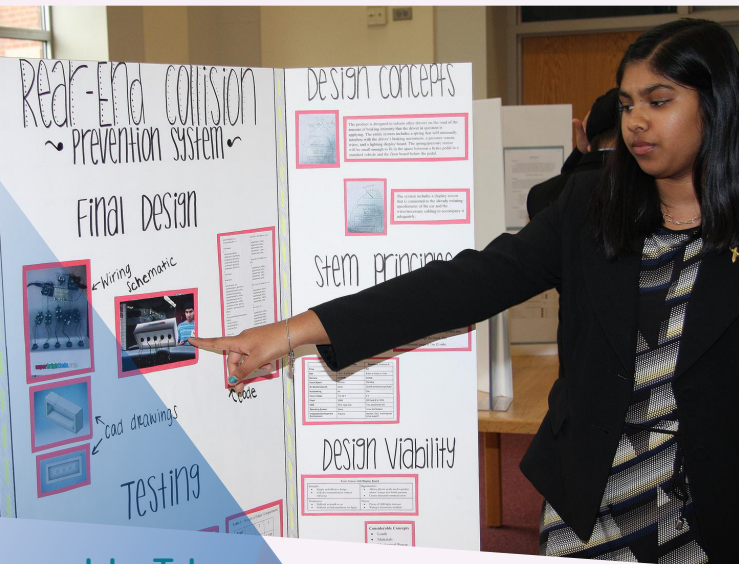
For Ansys Inc. Scholarship recipient Journey Washingtonhigh, having the ability to create something has always been front and center. From a childhood interest in the arts and music, Journey has always had a passion to create. So it's no surprise that she took an immediate liking to engineering. As she explains, "I've been able to participate in research and group projects that have further evolved my interest in engineering and product design."

As a student at Stanford University, Journey is staying true to form, pursuing a well-rounded education with ASME's help. "This scholarship is helping me pursue mechanical engineering by helping me participate in research opportunities, different extracurricular activities, and organizations that include my interests in engineering," Journey said.

For Journey, a career in engineering offers the opportunity to continue to be a creator. "This scholarship enables me to pursue what I've been enjoying my whole life, being able to create something in my mind and display that to other people." As she continues her education, the ASME Foundation is proud to help provide her with the means to pursue her ambitions.



Journey Washingtonhigh



Isha Tyle

Isha Tyle can tell you when the seed was planted for her engineering career: it all started with a fruit battery. Taking part in project-based engineering programs starting in middle school, Isha was able to work with, and learn from, engineering mentors to complete, as she puts it, "all these cool, really hands on projects which I wasn't able to experience in school." Her passion continued through high school and into college, as she began her pursuit of a mechanical engineering degree at the University of Illinois.

With support from ASME, and as the recipient of the 2021–2022 Kenneth Andrew Roe Scholarship, Isha was able to work toward her goal of pursuing an engineering education more easily, especially as financial hardships threatened to stand in her way. "It has allowed me to become more financially independent in regard to my college tuition and really support myself through difficult times when my father lost his job just as I was beginning college," she recalls.

As Isha looks to her future, she is reminded of what awakened her interest in mechanical engineering—her own irrepressible curiosity and the example set by those who preceded her. She hopes to serve as a similar example for future engineers by working with young girls, showing them what is possible, and demonstrating by her accomplishments a path for success.

Isha Tyle

Social Return on Investment

During FY21, the ASME Foundation added content to its website, www.asmefoundation.org, called "By the Numbers", which presents statistical information describing the impact of ASME's philanthropic programs. Initially, six program areas are covered, with additional "impact dashboards" to be added over time.

Each dashboard enables a user to discover successive layers of information. For example, starting with total numbers of K-12 students reached by ASME's STEM curriculum, then drilling down to show reach of the program by state and at the county level. The percentage of Title I schools, serving low-income families, is also shown. Similar statistics are presented for each of the six currently covered program areas.

The Foundation invites all visitors to the site to learn about the impact of ASME programs, both through the stories of beneficiaries and by statistical analysis. This information is important when evaluating ASME Foundation programs in the context of making charitable investments.

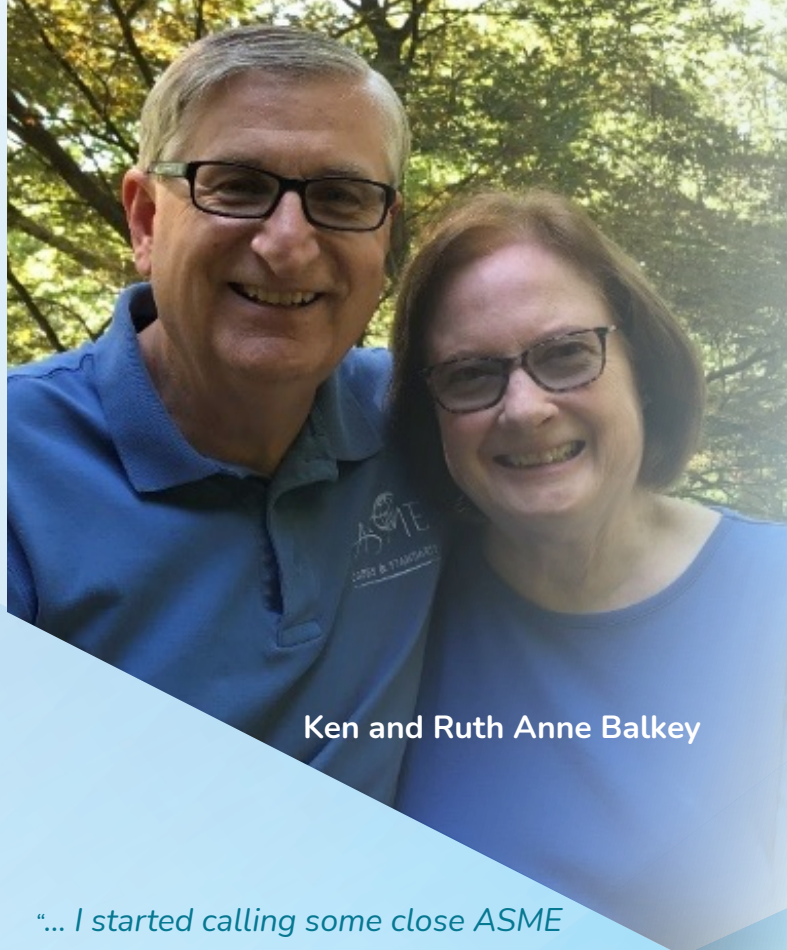


VOLUNTEER/ DONOR SPOTLIGHT

Volunteer Spotlight: Ken Balkey

It's not easy to fit Ken Balkey in a box. To spotlight his work as an ASME volunteer risks ignoring the generosity he and his wife, Ruth Anne, demonstrated when they endowed an ASME Foundation Scholarship. To talk about his work as a consulting engineer at Westinghouse Electric Company omits mention of his role on the adjunct faculty of the University of Pittsburgh's prestigious Swanson School of Engineering.

But the focus of this article is volunteering, and in that regard ASME Life Fellow Kenneth R. Balkey, P.E. truly sets the standard—and then some. Perhaps most notable among Ken's volunteer experience is his service as past senior vice president, ASME Standards & Certification. He spent many years doing research to support the Boiler and Pressure Vessel Code for nuclear power plant applications and served on and chaired the ASME Council on Standards and Certification. Editorial space does not allow a full listing of Ken's contributions of time and talent to ASME.



Ken and Ruth Anne Balkey

"... I started calling some close ASME colleagues and friends to see if they would like to join Ruth Anne and me in endowing an ASME scholarship." Ken Balkey

As a member of the ASME Philanthropy Committee, Ken has demonstrated a prodigious aptitude for fundraising, particularly in support of scholarships. "Over the past months, I started calling some close ASME colleagues and friends to see if they would like to join Ruth Anne and me in endowing an ASME scholarship," Ken notes. "As a result of this quiet outreach, Gerry Eisenberg, a 49-year veteran of the ASME staff and leader in the ASME Standards and Engineering Sector, and Dr. Sid Bernsen, a longtime colleague of the late Mary Drouin in the field of risk assessment standards, both have agreed to endow ASME scholarships."

It's a little-known fact that this former track star, who as a high school senior finished more than respectably in the 1968 Boston Marathon, has logged over 78,000 miles in running shoes, a record outdone only by the figurative miles he's logged as an ASME volunteer. And judging by his current pace of service to this community, he's nowhere near the finish line.

Donors/Partners/Collaborators





An Exelon Company

Corporate Donor Spotlight: ComEd

ComEd, a unit of Chicago-based Exelon Corporation, provides electricity to more than 4 million customers across northern Illinois. The company is also a valued supporter of ASME, both as a member of the ASME Industry Advisory Board and as a donor to the ASME Foundation.

“By developing and supporting STEM-focused programming for students, we’re making them aware of the fastest-growing career field as they consider their next steps after high school.” Michelle Blaise

Michelle Blaise, ComEd's senior vice president of technical services, is also a member of the ASME Foundation's "campaign cabinet," the advisory group that provides strategic leadership for ASME's five-year, \$50 million fundraising effort, the Campaign for Next Generation Engineers. As part of ComEd's collaboration with ASME, company engineers participate in our DropMEIn! program, visiting local K-12 classrooms, either virtually or in person, to share their experience and inspire next generation engineers.

“As a major Illinois company and employer, ComEd recognizes its responsibility to be a good community partner and help create a workforce that reflects the communities we serve,” Blaise said. “By developing and supporting STEM-focused programming for students, we’re making them aware of the fastest-growing career field as they consider their next steps after high school. Programs like ASME’s DropMEIn! ensure we cultivate the talents of the next generation of engineers and, more importantly, capture their new perspectives.”

ComEd's extensive charitable investments focus on the environment, arts and culture, public safety initiatives, neighborhood development programs, and education, including ASME's K-12 education work which, this year, will introduce hundreds of thousands of students—many from Title I schools—to the wonders of engineering and the limitless possibilities of an engineering career.

“Through this scholarship, I hope to support students who show promise, attract young talent to the profession, and encourage enrollment and active participation in standards development.” Gerry Eisenberg

Individual Donor Snapshot: Gerry Eisenberg

ASME succeeds in part on the strength of its diverse and talented staff, but even among such a stellar group there are individuals whose dedication and commitment are worthy of special recognition. There is no better example of this generosity of spirit than Gerry Eisenberg.

Gerry Eisenberg has served ASME for nearly half a century and is currently Managing Director of the Standards and Engineering sector. Inspired by the commitment of his friend and longtime ASME standards and certifications volunteer Ken Balkey, Gerry stepped up with a significant gift to endow the ASME Gerald M. Eisenberg Family Scholarship Fund.

“I received high-quality mentoring from world-class experts on the value of standards,” says Gerry. “My intent is to pay it forward to the next generation and contribute to the deeper understanding of the value of engineering standards. Through this scholarship, I hope to support students who show promise, attract young talent to the profession, and encourage enrollment and active participation in standards development.”

Income from the Fund will be used to grant scholarships to undergraduate or graduate students majoring in accredited Mechanical Engineering or Mechanical Engineering Technology programs. Preference will be given to students with an interest in the benefits of consensus industry standards for mechanical engineering applications.

Gerry's generous contribution will not only ease the financial burden for future engineers who are pursuing an engineering education, in a larger sense this donation is an expression of optimism in the ability of engineers to build a better future, and a demonstration of his faith in ASME's mission to advance engineering for the benefit of humanity.



Gerry Eisenberg



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.

MEMBERS

Mahesh C. Aggarwal
Thomas M. Barlow
Ruthann Bigley
Betty L. Bowersox
Merle & Virgil R. Carter
Eleanor Chew
James W. Coaker
John J. Corcoran
Lynden F. Davis
Daniel Deckler
John N. Eustis
Nancy & Roland Fitzroy
Donald R. Frikken
Marc W. Goldsmith
Richard J. Goldstein
Kalan Guiley
Philip W. Hamilton
Frederick Hanzalek
Francesca & Joe M. Holm
Doris & Warren Hutchings
Jennifer R. Jewers Bowlin
Patricia & Duane P. Jordan
Henry M. Koenig
Milton Leonard
Warren R. Leonard
June Ling
Thomas G. Loughlin
E. Roland Maki

Sonia & Raj Manchanda
Alma & Robert Fallon
Loretta C. McHugh
Magda & Michael B. Michaud
John C. Mihm
Michael Molnar
Ozden O. Ochoa
Robert N. Pangborn
Richard Pawliger
Craig D. Redding
Victoria A. Rockwell
Elizabeth & K. Keith Roe
Ester & Richard Rosenberg
Ruth & Byron Schieber
Allen Selz
Evelyn & William Shoop
Betsy & Terry Shoup
Kathryne & Robert T. Simmons
Susan H. Skemp
Pamela & David J. Soukup
John A. Swanson
Chor W. Tan
Ruthy & Keith B. Thayer
Roy P. Trowbridge
William A. Weiblen
James D. Woodburn
Justin Young
Myrna & Sam Y. Zamrik



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.

MEMBERS

Frank Adamek
Michael Adams
Timothy Adams
Mostafa Aghazadeh
Todd Allen
Sunao Aoki
Mehdi Asheghi
Bala Balachandran
Kenneth Balkey
David Bayandor
David Beddow
Tom Bell-Wright
Lisa Bessler
Andrew Bicos
Keith Bloesch
William Borter
Betty Bowersox
Elah Bozorg-Grayel
M. Brackin
Stephen Brunkhorst
Charles Bruny
Jian Cao
Eleni Chatzi
Thomas Costabile
Warren Devries
Philip Divietro
Nicole Dyess
Kornel Ehmann
Gerry Eisenberg
Nicholas Fezie
Alvin Filstrup

Amy Fleischer
Leroy Fletcher
James Froula
Vadim Gektin
Bill Germuga
Jeremy Gernand
Kalan Guiley
Krishna Gupta
John Hallquist
John Hasselmann
Onik Hattacharyya
Bob Hauck
Mahantesh Hiremath
Regina Hoffmann
Debbie Holton
Alex Hoynes
Patricia Hunt
Madhusudan Iyengar
Said Jahanmir
Jennifer Jewers Bowlin
Lingyun Jiang
Michael Johnson
Yogendra Joshi
Martin Jun
Shiva Kalidas
Albert Kilert
Barbara Klein
Madiha Kotb
Rudolf Landwaard
Connie Lausten
Karen Lee
Shih-Chieh Lin
Xinyu Liu
Kathleen Lobb

Paula Ludwigson
Ravi Mahajan
Robert Manross
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Roger McCarthy
Thomas Meehan
Shreyes Melkote
C. Dan Mote
Thomas Mowry
Nakamura Nakamura
Wataru Nakayama
Michael O'Connor
Robert Pangborn
Thomas Pestorius
Harry Petrequin
Allian Pratt
Mary Lynn Realff
Ryan Reardon
Jovica Riznic
K. Keith Roe
Steven Rutter
Johnson Samuel
John Sare
Jeff Schlosser
Anand Sethupathy
Steven Shaw
Terry Shoup
Robert Sims
Robert Skaggs
Susan Skemp
Mark Smith
Alba Sofi
Walter Sperko
Stuart Speyer

Scott Stallard
Mary Grace Stefanichik
Sathyan Subbiah
John Sutherland
John Swanson
Keith Thayer
Samuel Thomas
David Thompson
Alexander Vakakis
Ganesan Venkatasubraman
Daniel Waldorf
Peng Wang
Thomas Washburn
Albert Wavering
John Wentz
Charla Wise
Huayong Yang
Justin Young
Bingyi Yu
Sam Zamrik
Mohamed Zarrugh
Rixin Zhu

2020 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.



Subra Suresh

Subra Suresh 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. Suresh, who serves as president and distinguished university professor at Nanyang Technological University in Singapore, was honored for his exceptional contributions to the higher learning of engineering, and for his years of research in the underlying properties and performance of engineered and biological materials and their effects on human diseases. A Fellow of ASME, Dr. Suresh has been awarded 17 honorary doctorate degrees from universities spanning the globe.

The Medal was presented to Dr. Suresh during a virtual ceremony, which was held in conjunction with the ASME International Mechanical Engineering Congress and Exposition in November 2020.

HONORARY MEMBERS

Je-Chin Han, Sc.D., Fellow
Farshid Sadeghi, Ph.D., Fellow
Masayoshi Tomizuka, Ph.D., Fellow

ASME MEDAL

Subra Suresh, Sc.D., Fellow

ADAPTIVE STRUCTURES AND MATERIAL SYSTEMS AWARD

Wei-Hsin Liao, Ph.D., Fellow

BERGLES-ROHSENOW YOUNG INVESTIGATOR AWARD IN HEAT TRANSFER

Amy Marconnet, Ph.D., Member

BLACKALL MACHINE TOOL & GAGE AWARD

ChaBum Lee, Ph.D.

PER BRUEL GOLD MEDAL FOR NOISE CONTROL AND ACOUSTICS

J. Stuart Bolton, Ph.D.

THOMAS A. EDISON PATENT AWARD

Shorya Awtar, Sc.D., Fellow

EDWIN F. CHURCH MEDAL

Nael Barakat, Ph.D., Fellow

DANIEL C. DRUCKER MEDAL

Glaucio H. Paulino, Ph.D., Fellow

WILLIAM T. ENNOR MANUFACTURING TECHNOLOGY AWARD

Ahmed A. Busnaina, Ph.D., Fellow

NANCY DELOYE FITZROY AND ROLAND V. FITZROY MEDAL

John A. Rogers, Ph.D.

FLUIDS ENGINEERING AWARD

Howard A. Stone, Ph.D., Member

FREEMAN SCHOLAR AWARD

Alfredo Soldati, Ph.D.

Y.C. FUNG EARLY CAREER AWARD

Matthew B. Fisher, Ph.D., Member

GAS TURBINE AWARD

Bogdan C. Cernat, Member

Marek Pátý

Cis De Maesschalck, Ph.D.

Sergio Lavagnoli, Ph.D., Member

KATE GLEASON AWARD

Lisa Burton O'Toole, Ph.D.

RICHARD J. GOLDSTEIN ENERGY LECTURE AWARD

James J. Truchard, Ph.D.

MELVIN R. GREEN CODES AND STANDARDS MEDAL

Urey R. Miller, P.E., Fellow



HEAT TRANSFER MEMORIAL AWARDS
Terrence W. Simon, Ph.D., Fellow (SCIENCE)

Bahgat Sammakia, Ph.D., Fellow (ART)

Vishwanath Prasad, Ph.D., Fellow (GENERAL)

MAYO D. HERSEY AWARD
Bharat Bhushan, Ph.D., Fellow

PATRICK J. HIGGINS MEDAL
Mark C. Malburg, Ph.D., Member

HOLLEY MEDAL
Yogesh Jaluria, Ph.D., Fellow

SOICHIRO HONDA MEDAL
Asad M. Madni, Ph.D., Member

INTERNAL COMBUSTION ENGINE AWARD
André L. Boehman, Ph.D., Fellow

WARNER T. KOITER MEDAL
Anthony M. Waas, Ph.D., Fellow

ROBERT E. KOSKI MEDAL
Shinichi Yokota, D.Eng., Member

ALLAN KRAUS THERMAL MANAGEMENT MEDAL
Michael J. Ellsworth Jr.

FRANK KREITH ENERGY AWARD
Petros Sofronis, Ph.D., Fellow

BERNARD F. LANGER NUCLEAR CODES AND STANDARDS AWARD
Annemarie Appleton, Member

GUSTUS L. LARSON MEMORIAL AWARD
Yuri Bazilevs, Ph.D., Member

H.R. LISSNER MEDAL
Larry A. Taber, Ph.D., Fellow

MACHINE DESIGN AWARD
Jian S. Dai, Ph.D., Fellow

CHARLES T. MAIN STUDENT LEADERSHIP AWARDS
Jad Hakim, Member (GOLD)

Adam Hernández-Miranda, Member (SILVER)

McDONALD MENTORING AWARD
Eduardo J. Barrientos, Ph.D., Member

M. EUGENE MERCHANT MANUFACTURING MEDAL OF ASME/SME
Krishnamoorthy Subramanian, D.Sc., Fellow

VAN C. MOW MEDAL
Stavros Thomopoulos, Ph.D., Fellow

NADAI MEDAL
Frank Zok, Ph.D., Member

SIA NEMAT-NASSER EARLY CAREER AWARD
Baoxing Xu, Ph.D., Member

ROBERT M. NEREM EDUCATION AND MENTORSHIP MEDAL
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