CONTENTS

SECTION I

ASME HONORS POLICY

HONORS MANUAL

The purpose of this Honors Manual is to list the various honors and awards, including qualifications and past recipients, and to explain the procedures for granting them. The manual is divided into four main sections. This Introductory Section, pages 2 through 4, gives general information concerning honors and awards.

Section II, pages 5 through 19, gives details of all ASME awards. Table 1 on pages 5 through 14 gives an alphabetical listing of all ASME awards with condensed information concerning submission and consideration of nominations. Table 2 on pages 15 through 19 lists the Special Awards Committees. Beginning on page 20, a brief description of each honor and award with a list of past recipients is provided.

In addition to ASME's own awards, there are several other general awards for which ASME members may be eligible. These are summarized in Section III, pages 71 through 72. Finally, Section IV, on pages 73 through 77, gives a sample nomination form and suggestions for preparing an award nomination.

A major purpose of The American Society of Mechanical Engineers (ASME) is to:

> *"Promote the art and science of mechanical engineering and multidisciplinary engineering and allied sciences to diverse communities throughout the world..."* (Constitution Article C2.1.1).

In pursuit of this purpose, the Society shall:

> *"Offer awards and other honors to encourage contributions to engineering; confer awards and other honors in recognition of meritorious contributions to engineering." (B2.1.).*

The program of honors and awards is administered by the Board of Governors, by a Committee on Honors, by a General Awards Committee, and by several Special Award Committees, as authorized by By-Laws B5.2.8.1 and by Society Policies P-3.1 and by P-3.2.

The Committee on Honors (COH) is under the direction of the Board of Governors. It consists of nine Members or Fellows, preferably including a Past President and two Honorary Members or ASME Medalists. The General Awards Committee (GAC) screens nominations and makes recommendations to the Committee on Honors. It consists of nine Members or Fellows, representing the Technical Events and Conferences (TEC) Segments. Special Awards Committees (SAC) are usually associated with a particular honor or award. The SAC screen nominations and make recommendations to the COH and GAC.

At the discretion of the Committee on Honors, a nominee may be awarded an honor other than that for which they were nominated. A person shall not be considered for any honor or award during the term of office to which that person has been elected or appointed (or is entitled to ex officio) as a voting member of any Board, Committee, or other unit of the Society which has been assigned the duty to take a voted action on either one of these steps in the award selection process:

(a) to choose one or more nominees whose name will be sent to the unit which is charged with selecting the recipient of that award; or (b) to make the final selection of the recipient of that award. This restriction is not be circumvented by abstention from voting, by absence from a meeting, or by resignation from the unit. The Committee on Constitution and By-Laws noted that since the delegation by the Board of Governors to the Committee on Honors could be removed by the Board of Governors, in effect the Board of Governors still retains the ultimate authority for approval of all recipients of Society awards. Consequently, it was agreed that the exclusion does apply to the Board of Governors (February 23, 1981).

An individual will receive only one honor in recognition of the same achievement. The receipt of one ASME honor shall not bar the recipient from another ASME honor, provided it is for a different accomplishment. Careful consideration should be given when nominating an individual for Honorary Membership, as this honor recognizes a lifetime of service to engineering or related fields. Thus, the awarding of Honorary Membership may preclude receipt of another ASME honor at a later time.

Honors are not awarded posthumously except if a nominee's death occurs after the nomination has been received at ASME Headquarters. This policy is also recommended as applicable to ASME nominations for joint awards.

HOW TO NOMINATE FOR ASME HONORS

THE BASIC IMPORTANCE OF ASME HONORS

Recognition of outstanding achievement in engineering is one of the major objectives of the American Society of Mechanical Engineers, which it seeks to attain through its programs of honors and awards. Such programs provide the necessary and desirable recognition for outstanding contributions to the art and science of engineering. They give opportunity for personalized presentations to honor recipients, which dramatizes to the public the achievements of the engineers and identifies ASME with excellence in engineering.

The Society honors and awards fall into three main categories - those for achievement, those for contributions to engineering literature, and those for service to the Society. Achievement Awards may in turn be grouped into those available to all in the profession and those restricted to some special field within the profession. Similarly, Literature Awards may be considered in two groups - those available to all in the profession and those restricted to a specialized field.

Several ASME honors and awards have been conferred for more than half a century. These include the Achievement Awards of Honorary Membership (1880), the Charles T. Main Award (1919), the ASME Medal (1920), and the Holley Medal (1924). The oldest Literature Awards are the Henry Hess Early Career Publication Award (1914), the Melville Medal (1927), and the Worcester Reed Warner Medal (1930). Since 1930, sixty-eight additional awards have been established.

HOW TO NOMINATE

The first step in making a NOMINATION for a particular honor is to become completely familiar with the requirements to be met by the candidate for the honor, as given in Section II. Comparison of the accomplishments of the candidate with the accomplishments of previous recipients of the honor will help the nominator in deciding whether to make a NOMINATION. Section IV contains detailed instructions for preparing a NOMINATION. The nominator should study and follow these carefully, so that the relevant accomplishments of the candidate will be properly presented. The suggested format stresses the importance of a clear, precise narrative and description of the accomplishments of the candidate and a complete listing of both the ASME activities and the honors he or she has been awarded.

WHO MAY NOMINATE

Any individual member or committee may nominate candidates for any Society honor or award or any Joint Award as listed in this Manual, except individual voting members of the Board of Governors (BOG), Committee on Honors (COH), or General Awards Committee (GAC), and other committees which sit in judgment on the nominations, unless it is the committee's responsibility to develop honors material. A nomination by a non-member is referred to the proper ASME body for action.

THE IMPORTANCE OF THE NOMINATION IN FORM AND CONTENT

Each recipient of an honor or award may be an eminently worthy candidate. It is therefore the duty and responsibility of each member to bring forward outstanding candidates of whose work and accomplishments he or she has personal knowledge. It is a serious mistake to assume that "they" - meaning the honor committee or the ASME leadership in general – "know all about the nominee." The enormous scope of ASME activities and its large membership make it essential that award selection

boards be provided with the necessary complete information for judging the nominations. Thus, the judges must have thorough and well-prepared NOMINATIONS. Remember also that “they”, the honor committee or the ASME leadership in general, may be, in most cases, ineligible to make NOMINATIONS or sponsor candidates for honors and awards.

WHO SELECTS ASME HONORS RECIPIENTS

The ASME Committee on Honors nominates the candidates for Honorary Membership and the ASME Medal to the Board of Governors. The Board of Governors, by unanimous vote, selects the recipients of Honorary Membership and the ASME Medal.

By direct delegation of the authority of the Board of Governors, the ASME Committee on Honors selects the recipients of all other ASME honors and awards by unanimous vote.

For the general Achievement and Literature Awards, the GAC nominates the candidates to the COH for selection. For each special award, the relevant award committee nominates candidates to the COH for selection. In general, the COH has the right of veto or of choice but not the right of substitution for candidates who have been nominated by the GAC or Special Awards Committee (SAC).

MEMORIAL FUND

As a result of an item on the 1973 National Agenda, a Memorial Fund was established whereby contributions may be made in memory of deceased Society Members. These contributions are being accumulated and, when sufficient funds are available, a suitable permanent memorial will be created in remembrance of an outstanding Member of the Society.

Contributions may be sent to the ASME Memorial Fund along with an indication of the person to be memorialized. Cards of acknowledgment are sent to a close relative of the person in whose name the contribution is made as well as to the donor. Contributions to the fund are tax deductible.

SECTION II

ASME AWARDS

Any individual member or group of members or committee may nominate candidates for any awards listed in this Manual. Table 1, on pages 5 through 14, summarizes the awards. Most of the column headings and information should be self-explanatory. Abbreviations used include "COH" for Committee on Honors, "GAC" for General Awards Committee, and "SAC" for each Special Awards Committee. Nominations submitted to COH or GAC should be sent to:

ASME Honors Office
Two Park Avenue
New York, NY 10016

Nominations submitted to an SAC may be sent either to the ASME Honors Office or directly to the SAC. Nomination deadlines are absolute; completed applications must have been received by the deadline date. Months January through March refer to the calendar year of the award; all other months refer to the year preceding the year of the award.

Table 2, on pages 15 through 19, lists the Special Award Committees and the technical activity or other activity responsible for manning each committee. Pages 20 through 70 give brief accounts of each award with a list of past recipients. Members of committees who require a more detailed analysis of any particular award may request it from the ASME Honors Office at the above address.

TABLE 1

LISTING OF AWARDS

Name of Award	Requirements	Form of Award	Limitation(s)	Nomination Deadline	Send To Special Award Committee (SAC)	Awarded By Board of Governors (BOG)/Committee on Honors (COH)/ General Awards Committee (GAC)
ASME Medal (Page 20)	Eminently distinguished engineering achievement	$15,000 Gold Medal Certificate $750 Expense Supplement	None	March 1	COH	COH/BOG March 1
Adaptive Structures and Material Systems Award (Page 21)	Significant contributions to the sciences and technologies associated with adaptive structures and/or materials systems	$2,000 Vermeil Medal Certificate	Must be a senior researcher with significant contributions	October 1	SAC	COH March 1
Allan Kraus Thermal Management Medal (Page 21)	Demonstration of outstanding achievements in thermal management of electronic systems and their commitment to the field of thermal science and engineering	$1,000 Bronze Medal Certificate $750 Expense Supplement	None	January 15	SAC	COH March 1
Arthur L. Williston Medal (Page 62)	The best paper submitted in the annual competition on a subject chosen to challenge the engineering abilities of engineering students in conformance with the annual contest guidelines See Current Contest Flyer: https://www.asme.org/about-asme/get-involved/honors-awards/literature-awards/arthur-l-williston-medal	1st: $1,000 Bronze Medal Certificate $750 Expense Supplement 2nd: $500 Certificate 3rd: $250 Certificate	Student Member or Member (graduated not more than 2 years), ASME sponsor	March 1	GAC	COH March 1

LISTING OF AWARDS

Name of Award	Requirements	Form of Award	Limitation(s)	Nomination Deadline	Send To Special Award Committee (SAC)	Awarded By Board of Governors (BOG)/ Committee on Honors (COH)/ General Awards Committee (GAC)
Barnett-Uzgiris Product Safety Design Award (Page 22)	Significant contributions to the safe design of products through teaching, research, and professional accomplishments	$1,000 Bronze Medal Certificate $750 Expense Supplement	None	February 1	SAC	GAC/COH March 1
Ben C. Sparks Medal (Page 22)	Eminent service to engineering education and mechanical engineering technology education through outstanding contributions that bring innovative, authentic, practice-based, engineering design/build experiences to undergraduate students	$1000 Bronze Medal Certificate $750 Expense Supplement	Nominees must hold or have held academic appointments in departments that have ABET-accredited or substantially equivalent degree programs or be engineers in industry, government, or private practice	SepteGleaamber 1	SAC	COH October 1
Bergles-Rohsenow Young Investigator Award in Heat Transfer (Page 23)	Commitment to pursuing research in heat transfer, as well as demonstration of the potential to make significant contributions to the field of heat transfer	$1,000 Bronze Medal Certificate	Candidate under 36, with Ph.D. or equivalent degree in engineering	October 1	SAC	GAC/COH March 1
Bernard F. Langer Nuclear Codes and Standards Award (Page 23)	Contributions to the nuclear power plant industry through the development and promotion of ASME Nuclear Codes and Standards or the ASME Nuclear Certification Program	$1,000 Crystal Oracle Certificate	None	February 1	SAC	COH March 1
Blackall Machine Tool and Gage Award (Page 63)	Best current original paper or papers (not published elsewhere) that has/have been presented before ASME and/or published by ASME during the 2 calendar years immediately preceding the year of the award; the paper(s) should contribute to the design or application of machine tools, gages or dimensional measuring instruments, or new technologies and metrology approaches	$1,000 Plaque	Paper presented before ASME and/or published by ASME during the 2 calendar years immediately preceding the year of award	February 1	SAC	GAC/COH March 1
Burt L. Newkirk Award (Page 24)	Notable contributions to tribology in research or development as established by papers accepted for publication	$1,000 Certificate	Author under 40 and an ASME member at time of nomination	February 1	SAC	GAC/COH March 1

LISTING OF AWARDS

Name of Award	Requirements	Form of Award	Limitation(s)	Nomination Deadline	Send To Special Award Committee (SAC)	Awarded By Board of Governors (BOG)/Committee on Honors (COH)
Charles Russ Richards Memorial Award (Page 25)	Outstanding achievement in mechanical engineering 20 years or more following graduation Special Nomination form required: https://www.asme.org/about-asme/participate/honors-awards/achievement-awards/charles-russ-richards-memorial-award	$1,000 Certificate $750 Expense Supplement	The nominee must be a person who, on July 1 of the year of the award, has graduated not fewer than 20 years from the regular baccalaureate engineering curriculum	February 15	SAC	COH March 20
Charles T. Main Student Leadership Awards (Pages 25-27)	Leadership and service qualities contributing to programs and operations of an ASME Student Section Special Nomination form required: https://www.asme.org/about-asme/participate/honors-awards/achievement-awards/charles-t-main-student-section-awards	1st: $3,000 Gold Medal Certificate $750 Expense Supplement 2nd: $2,000 Silver Medal Certificate Expense Supplement Up to 8 Honorable Mentions: $500	Undergraduate ASME Student Member leadership and service qualities must have contributed, for a period of more than 1 year, to the programs and operations of a Student Section of Society, to his/her department activities and other related activities	March 1	GAC	GAC/COH March 15
Daniel C. Drucker Medal (Page 28)	Distinguished contribution to the field of applied mechanics and mechanical engineering	$2,000 Bronze Medal Certificate $750 Expense Supplement	None	September 15	SAC	COH March 1
Dedicated Service Award (Page 70)	Unusual dedicated voluntary service to the Society marked by outstanding performance, demonstrated effective leadership, prolonged and committed service, devotion, enthusiasm and faithfulness Special Nomination form required: https://www.asme.org/about-asme/participate/honors-awards/service-awards/dedicated-service-award	Plaque Certificate Lapel Pin	Minimum of 10 years of service to ASME	December 1	Appropriate Society Officer	Designated Service Area staff COH
Dixy Lee Ray Award (Page 28)	Significant achievements and contributions in environmental protection	$1,000 Bronze Medal Certificate $750 Expense Supplement	None	February 1	SAC	COH March 1
Edward F. Obert Award (Page 64)	Outstanding paper on thermodynamics presented during the preceding 2 calendar years	$5,000 Certificate $750 Expense Supplement	Must be written during preceding 2 years of Congress presentation	March 1	SAC	COH April 1

LISTING OF AWARDS

Name of Award	Requirements	Form of Award	Limitation(s)	Send To Special Award Committee (SAC)	Send To	Awarded By Board of Governors (BOG)/Committee on Honors (COH)/ General Awards Committee (GAC)
Edwin F. Church Medal (Page 29)	For an individual who has rendered eminent service in increasing the value, importance and attractiveness of mechanical engineering education Special Nomination form required: https://www.asme.org/about-asme/participate/honors-awards/achievement-awards/edwin-f-church-medal	$1,000 Bronze Medal Certificate $750 Expense Supplement	Services performed within context of an individual's normal employment are not eligible. Service should be above and beyond normal employment	September 1	SAC	GAC/COH Oct 1
Fluids Engineering Award (Page 30)	Outstanding contributions, over a period of years, to the engineer profession and especially to the field of fluids engineering through research, practice, and/or teaching	$1,000 Bronze Medal Certificate	None	September 30	SAC	GAC October 15
Frank Kreith Energy Award (Page 30)	Significant contributions to a secure energy future with particular emphasis on innovations in conservation and/or renewable energy	Bronze Plaque Certificate $750 Expense Supplement	None	December 1	SAC	COH March 1
Freeman Scholar Award (Page 64)	Significant expertise in fluids engineering	$10,000 Certificate $750 Expense Supplement	None	September 1	SAC	COH October 15
Gas Turbine Award (Page 65)	Outstanding individual- or multiple-author contribution to the literature of combustion gas turbines or gas turbines thermally combined with nuclear or steam power plants.	$1,000 Plaque	None	June 1	SAC	GAC/COH October 1
George Westinghouse Medals (Page 31)	Eminent achievement or distinguished service in the power field of mechanical engineering, including contributions of utilization, application, design, development, research, and the organization of such activities in the power field	Gold: $1,500 Vermeil Medal Certificate $750 Expense Supplement Silver: $1000 Silver Medal Certificate $750 Expense Supplement	Silver Medal to one under 45 years of age on June 30 of the year the in which the medal is awarded	February 1	SAC	COH March 1

LISTING OF AWARDS

Name of Award	Requirements	Form of Award	Limitation(s)	Nomination Deadline	Send To Special Award Committee (SAC)	Awarded By Board of Governors (BOG)/Committee on Honors (COH)/ General Awards Committee (GAC)
Gustus L. Larson Memorial Award (Page 32)	The award honors engineering graduates for outstanding achievements in mechanical engineering between 10 to 20 years after graduation.	$1,000 Certificate $750 Expense Supplement	The nominee must be a person who, on July 1 of the year of the award, graduated not more than 20 years and not fewer than 10 years from the regular baccalaureate engineering curriculum	February 15	SAC	COH March 20
H.R. Lissner Medal (Page 32)	Outstanding achievements in the field of bioengineering	$1,000 Bronze Medal Certificate $750 Expense Supplement	Candidate must be an active member of the Bioengineering Division	September 1	SAC	COH October 15
Heat Transfer Memorial Award (Page 33)	Outstanding contribution to the field of heat transfer through teaching, research, practice and design, or a combination of such activities	$1,000 Plaque Certificate	None	October 1	SAC	GAC/COH March 1
Henry Hess Early Career Publication Award (Page 66)	Best original technical paper presented to or published by the Society during the 2 calendar years prior to the year of award by a Student Member or Member who was not yet 35 years of age at the time the paper was submitted to the Society	$2,500 Certificate $750 Expense Supplement	ASME Student Member or Member, under age 35 (or 10 years after terminal degree) at time paper was published by Society	March 1	GAC	GAC/COH March 1
Henry Laurence Gantt Medal (Page 34)	Distinguished achievement in management and for service to the community	$1,000 Bronze Medal Certificate	None	February 1	SAC	COH March 1
Henry R. Worthington Medal (Page 34)	Eminent achievement in the field of pumping and machinery systems and concepts	$5,000 Bronze Medal Certificate $750 Expense Supplement	None	September 30	SAC	COH October 15
Holley Medal (Page 35)	Unique act(s) of an engineering nature, accomplishing a timely public benefit	$1,000 Vermeil Medal Certificate Lapel Pin	None	March 1	GAC	GAC/COH March 1
Honorary Member (Page 36)	Distinguished contributions to engineering, science, industry, research, public service, or other pursuits allied with and beneficial to the engineering profession	Silver Medal Certificate Lapel Pin Badge $750 Expense Supplement	Must be an ASME Member. No more than 5 honorees per year	March 1	COH	COH/BOG March 1
Internal Combustion Engine Award (Page 37)	Eminent achievement or distinguished contribution over a substantial period of time, which may result from research, innovation, or education in advancing the art of engineering in the field of internal combustion engines	$1,000 Plaque	None	February 1	SAC	GAC March 1

LISTING OF AWARDS

Name of Award	Requirements	Form of Award	Limitation(s)	Nomination Deadline	Send To Special Award Committee (SAC)	Awarded By Board of Governors (BOG)/Committee on Honors (COH)/ General Awards Committee (GAC)
J.P. Den Hartog Award (Page 37)	Lifetime contributions to the teaching and practice of vibration engineering	$3,000 Bronze Medal Certificate	None	July 31 Even Years	SAC	COH March 1
J. Hall Taylor Medal (Page 38)	Eminent achievement in ASME Codes and Standards for piping and pressure vessels	$1,000 Bronze Medal Certificate	None	November 15	SAC	COH March 1
James Harry Potter Gold Medal (Page 38)	Eminent achievement in the science of thermodynamics and its applications in mechanical engineering	$2,000 Vermeil Medal Certificate	None	February 1	SAC	COH March 1
James N. Landis Medal (Page 39)	Outstanding personal performance related to designing, constructing, or managing the operation of major steam-powered electric stations using nuclear or fossil fuels.	$7,500 Bronze Medal Certificate $750 Expense Supplement	None	February 1	SAC	COH March 1
Johnson & Johnson Consumer Companies, Inc. Medal (Page 39)	Outstanding contributions by an individual, company, government entity, school, or other organization toward developing and implementing practices, processes and programs that value and strategically manage diversity and inclusiveness	$2,000 Bronze Medal Certificate $750 Expense Supplement	Member of ASME or other recognized engineering /professional society; no involvement in litigation related to discrimination or harassment within the past 3 years	February 1	SAC	COH March 1
Kate Gleason Award (Page 40)	For the contribution of distinguished female leaders in the engineering profession	$2,000 Bronze Medal Certificate $750 Expense Supplement	Only female engineers are eligible	Award suspended	SAC	COH
M. Eugene Merchant Manufacturing Medal of ASME/SME (Page 40)	An individual who has had significant influence and responsibility for improving productivity and efficiency (either by research or by implementation of research) of the manufacturing operation(s)	$1,500 Vermeil Medal Certificate	None	January 1	SAC	COH March 1
Machine Design Award (Page 41)	Eminent achievement in machine design	$1,000 Plaque Certificate	None	February 1	SAC	COH March 1
Marshall B. Peterson Award (Page 41)	Early-career achievement in research as demonstrated by papers published in scientific journals of ASME and promise for pursuit of research in tribology	$2,500 Certificate	Under 30 years of age at time award is given (October of even-numbered years)	February 1 (biennially)	SAC	COH March 1

LISTING OF AWARDS

Name of Award	Requirements	Form of Award	Limitation(s)	Nomination Deadline	Send To Special Award Committee (SAC)	Awarded By Board of Governors (BOG)/Committee on Honors (COH)/ General Awards Committee (GAC)
Mayo D. Hersey Award (Page 42)	Distinguished contributions to the advancement of the science and engineering of tribology	$2,000 Plaque	None	February 1	SAC	COH March 1
Patrick J. Higgins Award (Page 48)	Enhancement of standardization through contribution to the development and promotion of ASME Codes and Standards or Conformity Assessment Programs	$1,000 Bronze Medal Certificate	Advancement of ASME codes, standards and conformity assessment	September 1	SAC	COH October 1
McDonald Mentoring Award (Page 43)	Outstanding mentoring of other professionals by an engineer in industry, government, education or private practice	$1,000 Bronze Medal Certificate $750 Expense Supplement	Must be a Member of ASME, or another ICOMES Member Society, for at least 5 years	February 1	SAC	COH March 1
Melville Medal (Page 67)	Best current original paper (Medal can also be bestowed on winner of another best paper award)	$2,000 Bronze Medal Certificate $750 Expense Supplement	One author must be a Corporate Member of ASME	March 1	GAC	GAC/COH March 1
Melvin R. Green Codes and Standards (Page 43)	Outstanding contributions to the development, promulgation, or management of documents, objects, or devices used in ASME programs of technical codification, standardization, and conformity assessment, or the acceptance of ASME Codes and Standards within the United States or internationally	$1,500 Bronze Medal Certificate	None	January 1	SAC	COH March 1
Milton C. Shaw Manufacturing Research Medal (Page 44)	Significant fundamental contributions to the science and technology of manufacturing processes	$1,500 Bronze Medal Certificate	None	February 1	SAC	COH March 1
Nadai Medal (Page 44)	Distinguished contributions to the field of engineering materials	$1,000 Medal Certificate	None	February 15	SAC	COH March 1
Nancy DeLoye Fitzroy and Roland V. Fitzroy Medal (Page 45)	Pioneering contributions to engineering leading to breakthroughs in existing technology or leading to new applications or new areas of engineering	$3,000 Bronze Medal Certificate $750 Expense Supplement	None	February 1	SAC	COH March 1
Old Guard Early Career Award (Page 45)	Recognizes outstanding early career engineers who have advanced quickly in their professional careers, have participated in advancing their education, have shown leadership in ASME activities and have volunteered actively in their communities	1st: $5,000 Plaque Prepaid Life Membership 2nd & 3rd: $2,000 Plaque Prepaid Life Membership	Student Member who upgraded to Member after graduation and is within 4 to 8 years after baccalaureate degree	February 1	SAC	COH March 1
Old Guard Prizes for ASME Student Members (Page 45-48)	Best 4 oral presentations at Student Contest at the IMECE	1st: $2,000 2nd: $1,500 3rd: $1,000 4th: $500 Certificate $750 Expense Supplement	Student Members	n/a	SAC	COH Congress

LISTING OF AWARDS

Name of Award	Requirements	Form of Award	Limitation(s)	Nomination Deadline	Send To Special Award Committee (SAC)	Awarded By Board of Governors (BOG)/Committee on Honors (COH)/ General Awards Committee (GAC)
Outstanding Student Section Advisor Award (Page 70)	Outstanding leadership and service qualities to the program and operations of a Student Section for at least 3 years	$1,500 Silver Medal Certificate $750 Expense Supplement	Must have completed at least 3 academic years as a Student Section Advisor prior to nomination for the award	March 1	GAC	GAC/COH March 15
Per Bruel Gold Medal for Noise Control and Acoustics (Page 49)	Eminent achievement and extraordinary merit in the field of noise control and acoustics	$1,000 Vermeil Medal Certificate $750 Expense Supplement	None	February 1	SAC	COH March 1
Performance Test Codes Medal (Page 49)	Significant contributions to the development and promotion of ASME Performance Test Codes	$1,000 Vermeil Medal Certificate	None	January 1	SAC	COH March 1
Pi Tau Sigma Gold Medal (Page 50)	Outstanding achievement in mechanical engineering within 10 years following graduation Special Nomination form required: https://www.asme.org/about-asme/participate/honors-awards/achievement-awards/pi-tau-sigma-gold-medal	$1,000 Gold Medal Certificate $750 Expense Supplement	Nominee must be a person who, on July 1 of the year of the award, has graduated no more than 10 years from the regular baccalaureate engineering curriculum	February 15	SAC	COH March 20
Prime Movers Committee Award (Page 68)	Outstanding contributions to the literature of thermal electric station practice or equipment that are available through public presentation and publication. Papers approved by the appropriate papers review committee as meeting ASME standards and available in printed form may be considered for this award. Papers, while usually current, need not necessarily be so, and may be by a single or multiple authors	$1,000 Certificate	None	February 1	SAC	COH March 1
R. Tom Sawyer Award (Page 51)	Outstanding contributions to advance the purpose of the Gas Turbine Industry and to the International Gas Turbine Institute over a substantial period of time	$1,000 Plaque Certificate	None	January 1	SAC	COH October 1
Ralph Coats Roe Medal (Page 51)	Significant contributions to public understanding and appreciation of engineering's worth to society	$12,000 Gold Medal Certificate $750 Expense Supplement	None	September 15	SAC	COH October 1
Richard J. Goldstein Energy Lecture Award (Page 52)	For pioneering contributions to the frontiers of energy leading to a breakthrough(s) in existing technology, leading to new applications or new areas of engineering endeavor, or leading to policy initiatives	$10,000 Bronze medal Certificate $750 Expense Supplement	None	February 1	SAC	COH March 1

Name of Award	Requirements	Form of Award	Limitation(s)	Nomination Deadline	Send To Special Award Committee (SAC)	Awarded By Board of Governors (BOG)/Committee on Honors (COH)/ General Awards Committee (GAC)
Robert M. Nerem Education and Mentorship Medal (Page 53)	Extraordinary and sustained level of lifetime achievement in the field of bioengineering education and mentoring	$1000 Bronze Medal Certificate $750 Expense Supplement	Ph.D. or equivalent terminal degree in any field of engineering, physics, medicine or life sciences; Must be active member of ASME Bioengineering Division	September 1	SAC	COH October 15
Robert E. Koski Medal (Page 52)	Advancing the art and practice of fluid power motion and control through education and/or innovation	$10,000 Bronze Medal Certificate $750 Expense Supplement	None	February 11	SAC	COH March 1
Robert Henry Thurston Lecture Award (Page 53)	Outstanding leader in pure or applied science or engineering	$500 Plaque Certificate $750 Expense Supplement	None	January 15	SAC	COH March 15
Rufus Oldenburger Medal (Page 54)	Outstanding lifetime achievements in automatic control	$2,000 Bronze Medal Certificate	None	February 1	SAC	COH March 1
Ruth and Joel Spira Outstanding Design Educator Award (Page 54)	Exemplifies the best in furthering engineering design education	$1,000 Vermeil Medal Certificate	None	February 1	SAC	COH March 1
S.Y. Zamrik PVP Medal (Page 55)	Outstanding contribution in the field of pressure vessels and piping technology	$4,000 Bronze Medal Certificate	None	June 15	SAC	COH October 1
Safety Codes and Standards Medal (Page 55)	Development and promotion of safety codes and standards, or safety accreditation activities	$1,500 Bronze Medal Certificate	None	January 1	SAC	COH March 1
Savio L-Y. Woo Translational Biomechanics Medal (Page 56)	Translation of meritorious bioengineering science to clinical practice through research, education, professional development, and service to the bioengineering community	$5,000 Bronze Medal Certificate $750 Expense Supplement	Must be an active member of BED	September 1	SAC	COH March 1
Sia Nemat-Nasser Early Career Award (Page 56)	Excellence in the areas of experimental, computational, and theoretical mechanics and materials	$3,000 Medal Certificate $750 Expense Supplement	Within 10 years of Ph.D. degree	February 15	SAC	COH March 1
Soichiro Honda Medal (Page 57)	Outstanding achievement or a series of significant contributions in the field of personal transportation	$7,500 Vermeil Medal Certificate $750 Expense Supplement	None	October 1	SAC	COH March 1
Spirit of St. Louis Medal (Page 57)	Meritorious service in the advancement of aeronautics and astronautics	$1,000 Vermeil Medal Certificate	None	January 1	SAC	COH March 1
Thomas A. Edison Patent Award (Page 58)	Creativity of a patented device or process that has the potential of significantly enhancing some aspect of mechanical engineering	$1,000 Bronze Medal Certificate $750 Expense Supplement	The patent must have been registered in the U.S.	February 1	SAC	COH March 1

LISTING OF AWARDS

Name of Award	Requirements	Form of AwarFd	Limitation(s)	Nomination Deadline	Send To Special Award Committee (SAC)	Awarded By Board of Governors (BOG)/Committee on Honors (COH)/ General Awards Committee (GAC)
Timoshenko Medal (Page 58)	Distinguished contributions to the field of applied mechanics	$2,500 Bronze Medal Certificate $750 Expense Supplement	None	September 15		COH March 1
Van C. Mow Medal (Page 59)	Meritorious contributions to the field of bioengineering	$1,000 Bronze Medal Certificate $750 Expense Supplement	Ph.D. or equivalent degree received between 10 and 20 years prior to June 1st of the year of award	September 1	SAC	COH October 15
Warner T. Koiter Medal (Page 59)	Distinguished contributions to the field of solid mechanics with special emphasis on the effective blending of theoretical and applied elements of the discipline and on a high degree of leadership in the international solid mechanics community	$2,000 Bronze Medal Certificate $750 Expense Supplement	None	September 15	SAC	COH March 1
Wilfred C. LaRochelle Conformity Assessment Award (Page 60)	Distinguished service in the area of Conformity Assessment, including but not limited to the establishment, advancement and promotion of ASME's Product & Personnel Certification and Accreditation Programs	$1,000 Bronze Medal Certificate	None	February 1	Board on Conformity Assessment Honors and Awards Committee	COH March 1
William T. Ennor Manufacturing Technology Award (Page 60)	Presented to an individual or team of individuals for developing or contributing significantly to innovative manufacturing technology, the implementation of which has resulted in substantial economic and/or societal benefits	$1,000 Vermeil Medal Certificate	None	February 1	SAC	COH March 1
Worcester Reed Warner Medal (Page 69)	Outstanding contribution to the permanent literature of engineering	$2,000 Vermeil Medal Certificate	Literature must be at least 5 years old	March 1	GAC	COH March 1
Y.C. Fung Early Career Award (Page 61)	Recognizes young investigators who are committed to pursuing research in the field of bioengineering	$1,000 Bronze Medal Certificate $750 Expense Supplement	Active member of the Bioengineering Division, with Ph.D. or equivalent degree in any field of engineering, physics, medicine or life sciences, that was received less than 10 years prior to June 1 of the year the award is conferred	September 1	SAC	COH October 15
Yeram S. Touloukian Award (Page 61)	Outstanding technical contributions in the field of thermophysical properties	Bronze Medal Certificate $750 Expense Supplement (Triennial)	None	September 1	SAC	COH October 15

TABLE 2

SPECIAL AWARD COMMITTEES

AWARD	TECHNICAL DIVISION OR OTHER SPONSOR	NAME OF COMMITTEE
Adaptive Structures and Materials Systems Award	Aerospace Division (AD)	Adaptive Structures and Material Systems Award Committee
Allan Kraus Thermal Management Medal	Electronic Packaging Division (EPD)	Allan Kraus Thermal Management Medal Committee
Barnett-Uzgiris Product Safety Design Award	Design Engineering Division (DED)	Barnett-Uzgiris Product Safety Design Award Committee
Ben C. Sparks Medal	Committee on Education	Ben C. Sparks Medal Committee
Bergles-Rohsenow Young Investigator Award in Heat Transfer	Heat Transfer Division (HTD)	Bergles-Rohsenow Young Investigator Award in Heat Transfer Committee
Bernard F. Langer Nuclear Codes and Standards Award	Board on Nuclear Codes and Standards	Bernard F. Langer Nuclear Codes and Standards Award Committee
Blackall Machine Tool and Gage Award	Manufacturing Engineering Division (MED)	Blackall Machine Tool and Gage Award Committee
Burt L. Newkirk Award	Tribology Division (TRIB)	Tribology Division Honors and Awards Committee
Charles Russ Richards Memorial Award	Pi Tau Sigma and Committee on Honors	Pi Tau Sigma Award Committee
Charles T. Main Student Leadership Awards	General Awards Committee (GAC)	General Awards Committee
Daniel C. Drucker Medal	Applied Mechanics Division (AMD)	Daniel C. Drucker Medal Committee
Dixy Lee Ray Award	Environmental Systems Division (ESD)	Dixy Lee Ray Award Committee
Edward F. Obert Award	Advanced Energy Systems Division (AESD)	Edward F. Obert Award Committee
Edwin F. Church Medal	General Awards Committee (GAC)	Edwin F. Church Medal Committee
Frank Kreith Energy Award	Solar Energy Division and Advanced Energy Systems Divisions (SED & AESD)	Frank Kreith Energy Award Selection Committee
Fluids Engineering Award	Fluids Engineering Division (FED)	Fluid Engineering Award Committee

AWARD	TECHNICAL DIVISION OR OTHER SPONSOR	NAME OF COMMITTEE
Freeman Scholar Award	Fluids Engineering Division (FED)	Freeman Scholar Standing Committee
Gas Turbine Award	International Gas Turbine Institute (IGTI)	Gas Turbine Reading Committee
George Westinghouse Medals	Nuclear Engineering Division (NED) and Power Division (PD)	George Westinghouse Medals Committee
Gustus L. Larson Memorial Award	Pi Tau Sigma and Committee on Honors	Pi Tau Sigma Award Committee
H.R. Lissner Medal	Bioengineering Division (BED)	H.R. Lissner Medal Committee
Heat Transfer Memorial Award	Heat Transfer Division (HTD)	Heat Transfer Honors and Awards Committee
Henry Laurence Gantt Medal	Management Division (MD)	Henry Laurence Gantt Medal Board
Henry R. Worthington Medal	Petroleum Division	Henry R. Worthington Medal Committee
Internal Combustion Engine Award	Internal Combustion Engine Division (ICED)	Internal Combustion Engine Award Committee
J. P. Den Hartog Award	Design Engineering Division (DED)	J.P. Den Hartog Award Committee
J. Hall Taylor Medal	Council on Standards and Certification	J. Hall Taylor Medal Committee
James Harry Potter Gold Medal	Energy Conversion Group (ECG)	James Harry Potter Gold Medal Committee
James N. Landis Medal	Power and Nuclear Engineering Divisions (PD & NED)	James N. Landis Medal Committee
Johnson & Johnson Consumer Companies, Inc. Medal	Diversity & Inclusion Strategy Committee	Johnson & Johnson Consumer Companies, Inc. Medal Committee
Kate Gleason Award	Committee on Honors (COH)	Kate Gleason Award Committee
M. Eugene Merchant Manufacturing Research Medal	Manufacturing Engineering Division (MED)	M. Eugene Merchant Manufacturing Medal of ASME/SME Board of Award Committee
Machine Design Award	Design Engineering Division (DED)	Machine Design Award Committee
Marshall B. Peterson Award	Tribology Division (TRIB)	Tribology Division Honors and Awards Committee
Mayo D. Hersey Award	Tribology Division (TRIB)	Tribology Division Honors and Awards Committee

AWARD	TECHNICAL DIVISION OR OTHER SPONSOR	NAME OF COMMITTEE
McDonald Mentoring Award	Diversity & Inclusion Strategy Committee	McDonald Mentoring Award Committee
Melville Medal	General Awards Committee	General Awards Committee
Melvin R. Green Codes & Standards	Council on Standards & Certification	Melvin R. Green Codes & Standards Medal Committee
Milton C. Shaw Manufacturing Research Medal	Manufacturing Technology Division (MED)	Milton C. Shaw Manufacturing Medal Committee
Nadai Medal	Materials Division (MD)	Nadai Medal Committee
Nancy DeLoye Fitzroy and Roland V. Fitzroy Medal	Committee on Honors (COH)	Fitzroy Committee
Old Guard Early Career Award	Old Guard Committee	Old Guard Committee
Old Guard Prizes	Old Guard Committee	Old Guard Committee
Outstanding Student Section Advisor Award	General Awards Committee (GAC)	General Awards Committee
Patrick J. Higgins Award	Board on Standardization and Testing	Patrick J. Higgins Award Committee
Per Bruel Gold Medal for Noise Control and Acoustics	Noise Control and Acoustics Division	Per Bruel Gold Medal for Noise Control and Acoustics Committee
Performance Test Codes Medal	Board on Performance Test Codes	Performance Test Codes Medal Committee
Pi Tau Sigma Gold Medal	Pi Tau Sigma and Committee on Honors	Pi Tau Sigma Award Committee
Prime Movers Committee Award	Power Division	Prime Movers Award Committee
R. Tom Sawyer Award	International Gas Turbine Institute (IGTI)	R. Tom Sawyer Award Committee
Ralph Coats Roe Medal	Committee on Honors (COH)	Ralph Coats Roe Medal Committee
Richard J. Goldstein Energy Lecture Award	Heat Transfer Division, International Gas Turbine Institute, Energy Conversion and Storage Petroleum Division	Richard J. Goldstein Energy Lecture Award
Ruth and Joel Spira Outstanding Design Educator Award	Design Engineering Division (DED)	Ruth and Joel Spira Outstanding Design Educator Award Committee

AWARD	TECHNICAL DIVISION OR OTHER SPONSOR	NAME OF COMMITTEE
S.Y. Zamrik PVP Medal	Pressure Vessels and Piping Division (PVPD)	S.Y. Zamrik PVP Medal Committee
Safety Codes and Standards Medal	Board on Safety Codes and Standards	Safety Codes and Standards Medal Committee
Savio L-Y. Woo Translational Biomechanics Medal	Bioengineering Division (BED)	Savio L-Y Woo Medal Committee
Robert E. Koski Medal	Fluid Power Systems & Technology Divisions (FPST)	Robert E. Koski Medal Committee
Robert Henry Thurston Lecture Award	Basic Engineering Technical Group (BETG)	Robert Henry Thurston Lecture Award Committee
Robert M. Nerem Education and Mentorship Medal	Bioengineering Division (BED)	Robert M. Nerem Education and Mentorship Medal
Rufus Oldenburger Medal	Dynamic Systems and Control Division (DSCD)	Rufus Oldenburger Medal Committee
Sia Nemat-Nasser Early Career Award	Materials Division (MD)	Nemat-Nasser Early Career Award Committee
Soichiro Honda Medal	Internal Combustion Engine Division (ICED)	Soichiro Honda Medal Committee
Spirit of St. Louis Medal	Aerospace Division (AERO)	Spirit of St. Louis Medal Committee
Thomas A. Edison Patent Award	Design Engineering Division (DED)	Thomas A. Edison Patent Award Committee
Timoshenko Medal	Applied Mechanics Division (AMD)	Timoshenko Medal Committee
Van C. Mow Medal	Bioengineering Division (BED)	Van C. Mow Medal Committee

AWARD	TECHNICAL DIVISION OR OTHER SPONSOR	NAME OF COMMITTEE
Warner T. Koiter Medal	Applied Mechanics Division (AMD)	Warner T. Koiter Medal Committee
Wilfred C. LaRochelle Conformity Assessment Award	Board on Conformity Assessment	Wilfred C. LaRochelle Conformity Assessment Award Committee
William T. Ennor Manufacturing Technology Award	Manufacturing Engineering Division (MED)	William T. Ennor Manufacturing Technology Award Committee
Y.C. Fung Early Career Award	Bioengineering Division (BED)	Y.C. Fung Early Career Award Committee
Yeram S. Touloukian Award	Heat Transfer Division (HTD)	Yeram S. Touloukian Award Committee

ACHIEVEMENT AWARDS

ASME MEDAL

The ASME Medal, established in 1920, is the highest award that the Society can bestow and is to recognize “eminently distinguished engineering achievement.” Only one ASME Medal may be awarded annually. Although some individuals have been honored by both the ASME Medal and Honorary Membership, each award has been made on the basis of different accomplishments.

ASME MEDALISTS

1921 Hjalmar G. Carlson
1922 Frederick A. Halsey
1923 John R. Freeman
1926 R.A. Millikan
1927 Wilfred Lewis
1928 Julian Kennedy
1930 W.L.R. Emmet
1931 Albert Kingsbury
1933 Ambrose Swasey
1934 Willis H. Carrier
1935 Charles T. Main
1936 Edward Bausch
1937 Edward P. Bullard
1938 Stephen J. Pigott
1939 James E. Gleason
1940 Charles F. Kettering
1941 Theodore von Karman
1942 Ervin G. Bailey
1943 Lewis K. Sillcox
1944 Edward G. Budd
1945 William F. Durand
1946 Morris E. Leeds
1947 Paul W. Kiefer
1948 Frederick G. Keys
1949 Fred L. Dornbrook
1950 Harvey C. Knowles
1951 Glenn B. Warren
1952 Nevin E. Funk
1953 Crosby Field
1954 E. Burnley Powell
1955 Granville M. Read
1956 Harry F. Vickers
1957 L.M.K. Boelter
1958 Wilbur H. Armacost
1959 Martin Frisch
1960 C. Richard Soderberg
1962 Philip Sporn
1963 Igor I. Sikorsky
1964 Alan Howard
1965 Johannes M. Burgers
1967 Mayo D. Hersey
1968 Samuel C. Collins
1969 Lloyd H. Donnell
1970 Robert Rowe Gilruth
1971 Horace Smart Beattie
1972 Waloddi Weibull
1973 Christopher C Kraft, Jr.
1974 Nicholas J. Hoff
1975 Maxime A. Faget
1976 Raymond D. Mindlin
1977 Robert W. Mann
1979 Jacob P. Den Hartog
1981 Robert S. Hahn
1983 Jack N. Binns, Sr.
1984 Aaron Cohen
1985 Milton C. Shaw
1986 Orlan W. Boston
1987 Philip G. Hodge, Jr.
1988 Eric Reissner
1989 William R. Sears
1990 Harley A. Wilhelm
1992 Daniel C. Drucker
1993 Richard H. Gallagher
1996 Robert C. Dean, Jr.
1997 Bernard Budiansky
1998 Frank Kreith
1999 H. Norman Abramson
2000 Arthur E. Bergles
2001 Warren M. Rohsenow
2002 Leroy S. “Skip” Fletcher
2003 Norman R. Augustine
2004 Bradford W. Parkinson
2005 Robert E. Uhrig
2006 Richard Goldstein
2007 Dean L. Kamen
2008 Frank E. Talke
2009 Nam Pyo Suh
2010 John Abele
2011 C. Dan Mote, Jr.
2012 Jan D. Achenbach
2013 Sia Nemat-Nasser
2014 Van C. Mow
2015 James R. Rice
2016 Junuthula N. Reddy
2017 Zdeněk P. Bažant
2018 Thomas J.R. Hughes
2019 Reginald I. Vachon

ADAPTIVE STRUCTURES AND MATERIAL SYSTEMS AWARD

The Adaptive Structures and Material Systems Award recognizes significant contributions to the sciences and technologies associated with adaptive structures and/or materials systems. The award is intended to honor a lifetime of achievement and sustained impact in the field and is given only to a senior researcher.

The winner is asked to give a plenary lecture at the annual ASME Smart Materials Adaptive Structures and Integrated Systems conference.

The Adaptive Structures and Material Systems Prize was established by the Aerospace Division as a division-level award in 1993 and was elevated to a Society-level award in 2014.

ADAPTIVE STRUCTURES AND MATERIAL SYSTEMS AWARD RECIPIENTS

2016 Ralph C. Smith
2017 Marcelo J. Dapino
2018 Diann Brei
2019 Nancy L. Johnson

ALLAN KRAUS THERMAL MANAGEMENT MEDAL

The Electronic and Photonic Packaging Division established the Allan Kraus Thermal Management Medal in 2007 to recognize individuals who have demonstrated outstanding achievements in thermal management of electronic systems and their commitment to the field of thermal science and engineering.

The nominee for the award should have significant contributions in thermal management of electronic systems demonstrated by successful product development, seminal papers, filed patents and/or leadership of research and development programs.

The award is named in honor of Allan Kraus, who is a Fellow of ASME and is being honored for his outstanding achievements and leadership in the field of thermal sciences as a researcher, a teacher, and a mentor to young thermal engineers; for his service to the heat transfer community, in general; and to the Electronic and Photonic Packaging Division of ASME, in particular.

ALLAN KRAUS THERMAL MANAGEMENT MEDALISTS

2009 Suresh V. Garimella
2010 Kenneth E. Goodson
2011 Robert E. Simons
2012 Louis C. Chow
2014 Peter E. Raad
2015 Martha Rencz
2016 Ravi Mahajan
2017 Masaru Ishizuka
2019 John R. Thome

BARNETT-UZGIRIS PRODUCT SAFETY DESIGN AWARD

The ASME Barnett-Uzgiris Product Safety Design Award recognizes individuals who have made significant contributions to the safe design of products through teaching, research, and professional accomplishments.

The award was established as the Triodyne Safety Award by the Design Engineering Division and operated as a division award until 2008, when it was elevated to a Society award and renamed the ASME Barnett-Uzgiris Product Safety Design Award.

BARNETT-UZGIRIS PRODUCT SAFETY DESIGN AWARD RECIPIENTS

2011 John B. Vorderbrueggen
2012 Henry Petroski
2013 Ren-Jye Yang
2014 Donald S. Bloswick
2015 John R. Puskar
2017 Saeed Barbat

BEN C. SPARKS MEDAL

The Ben C. Sparks Medal was established in 1990 for recognition of eminent service to mechanical engineering or engineering technology education through outstanding contributions that bring innovative, authentic, practice-based, engineering design/build experiences to undergraduate students. The award may be bestowed on an individual or collaborative team for excellence in curriculum implementation, teaching, academic/industry collaboration, or exemplary service to ASME student design-related programs.

Candidates must have a record of accomplishment over an extended period of time; play a major role in fostering new, innovative applications and approaches to the teaching of mechanical engineering and/or engineering technology; or effectively inspire promising systemic change that would enhance the readiness of graduates to begin engineering practice in industry.

Recipient(s) must hold or have held academic appointments in departments that have ABET-accredited (or substantially equivalent) degree programs or be an engineer(s) in industry, government, or private practice who has made an exemplary contribution to such degree programs.

The medal was established in memory of Ben C. Sparks, a devoted member of ASME and a dedicated teacher of mechanical engineering technology and mechanical engineering.

BEN C. SPARKS MEDALISTS

1991 Stanley M. Brodsky
1992 Elliot R. Eisenberg
1993 Donald R. Haworth
1994 John A. Weese
1997 Gary Robert Crossman
1998 Mulchand S. Rathod
1999 Philip E. Doepker
2000 Mark A. Pagano
2001 Kenneth J. Fisher
2002 Chittaranjan Sahay
2003 Mohammad A. Zahraee
2004 Frank A. Gourley
2005 George Sehi
2006 Alok K. Verma
2007 Charles J. Hurst
2009 Scott G. Danielson
2013 Robert O. Warrington, Jr.
Allan T. Kirkpatrick
Scott G. Danielson
Walter W. Laity
2014 Timothy W. Simpson
2015 Christopher A. Mattson
Carl D. Sorensen
2016 Allen H. Hoffman
2017 Steven W. Beyerlein
2018 David R. Wallace

BERGLES-ROHSENOW YOUNG INVESTIGATOR AWARD IN HEAT TRANSFER

The Bergles-Rohsenow Young Investigator Award in Heat Transfer is given to a young engineer who is under 36 years of age and has received a Ph.D. or an equivalent degree in engineering. The individual must be committed to pursuing research in heat transfer, and must have demonstrated the potential to make significant contributions to the field of heat transfer. Such contributions may take the form of, but are not limited to, analytical/numerical methods, equipment/instrumentation, or experimentation—any of which should lead to peer-reviewed publications.

Established by the Heat Transfer Division in 2003, the award was funded through the efforts of Arthur Bergles and Warren Rohsenow, both of whom are well known for their accomplishments in heat transfer research and for their mentoring of young researchers.

BERGLES-ROHSENOW YOUNG INVESTIGATOR AWARD IN HEAT TRANSFER RECIPIENTS

2004 Srinath V. Ekkad
2005 Sylvie Lorente
2006 Wilson K.S. Chiu
2007 Andrei G. Fedorov
2008 Laurent Pilon
2009 William P. King
2010 Ronggui Yang
2011 Edmond J. Walsh
2012 Evelyn N. Wang
2013 Kripa K. Varanasi
2014 Jonathan A. Malen
2015 Baratunde Cola
2016 Patrick E. Hopkins
2017 Austin J. Minnich
2018 Asegun Henry
2019 Yongjie Hu

BERNARD F. LANGER NUCLEAR CODES AND STANDARDS AWARD

The Bernard F. Langer Nuclear Codes and Standards Award was established in 1977 in honor of B.F. Langer, who was instrumental in the development of the rules for nuclear vessels.

Award is in recognition of an individual(s) who has contributed to the nuclear power plant industry through the development and promotion of ASME Nuclear Codes and Standards or the ASME Nuclear Certification Program (check on line).

BERNARD F. LANGER NUCLEAR CODES AND STANDARDS AWARD RECIPIENTS

1978 William E. Cooper
1979 William R. Smith, Sr.
1980 Wendell P. Johnson
1981 Lawrence J. Chockie
1982 Guy A. Arlotto
Robert J. Bosnak
Robert B. Minogue
G. Wayne Reinmuth
1983 Spencer H. Bush
1984 Floyd N. Moschini
1985 Howard F. Dobel
1986 Edwin J. Hemzy
1987 Robert L. Dick
1988 Edward F. Gerwin
1989 William H. Miller, Jr.
1990 Edward L. Williamson
1991 T. Eugene Northup
1992 Marcus N. Bressler
1993 Roger F. Reedy
1994 Owen F. Hedden
1995 William G. Knecht
1996 Donald F. Landers
1997 John D. Stevenson
1998 Everett C. Rodabaugh
1999 James A. Perry
2000 Sidney A. Bernsen
2001 Charles J. Pieper
2002 Kenneth R. Balkey
2003 Richard W. Barnes
2004 Yasuhide Asada
2005 Richard E. Gimple
2006 Warren H. Bamford
2007 Raymond R. Weidler
2008 Christopher L. Hoffman
2009 Mary Drouin
2010 Ray P. Deubler
2011 Wilfred C. LaRochelle
2012 Richard D. Porco
2013 Bryan A. Erler
2014 Douglas Scarth
2015 Thomas J. Vogan
2016 Charles Bruny
2017 Kevin Ennis
2018 Ralph S. Hill III
2019 Richard W. Swayne

BURT L. NEWKIRK AWARD

The Burt L. Newkirk Award is given to an individual who has not passed his or her 40th birthday on July 1 of the year in which the award is conferred and who is an ASME member at the time of nomination. It is given to an individual who has made notable contributions to the field of tribology in research or development as evidenced by important tribology publications.

Tribology for this award is defined as, “pertaining to the science and technology associated with surfaces in contact and relative motion with each other.” It covers all the fundamentals associated with the field of friction, lubrication, and wear. It embraces all the technological aspects of bearings, brakes, clutches, gears, etc.

The award was named after Burt L. Newkirk, who made notable achievements in the theory and application of tribology during his industrial career and was an outstanding teacher following his retirement from industry.

BURT L. NEWKIRK AWARD RECIPIENTS

1976 Francis E. Kennedy, Jr.
1977 Steve M. Rohde
1978 Pradeep Gupta
1979 Thomas A. Dow
1980 Stuart H. Lowenthal
1982 Dennis F. Li
1983 Bharat Bhushan
1984 Hooshang Heshmat
1986 Itzhak Green
1987 Pawan K. Goenka
1988 Kyriakos Komvopoulos
1990 Michael M. Khonsari
1991 Farshid Sadeghi
1992 Thomas N. Farris
1994 Srinivasan Chandrasekar
1996 Christopher DellaCorte
1997 Chiao-Ping Ku
1998 Timothy C. Ovaert
1999 Rohit S. Paranjpe
2000 Steven R. Schmid
2001 Andreas A. Polycarpou
2002 Thierry A. Blanchet
2003 Sergio E. Diaz
2004 W. Gregory Sawyer
2005 Michael R. Lovell
2006 Mitjan Kalin
2007 Lior Kogut
2008 Michael Nosonovsky
2009 Robert W. Carpick
2010 C. Fred Higgs III
2011 Robert L. Jackson
2012 Ashlie Martini
2013 Tae Ho Kim
2014 Bart Raeymaekers
2015 David Burris
2016 Aaron Greco
2019 Alison C. Dunn

CHARLES RUSS RICHARDS MEMORIAL AWARD

The Charles Russ Richards Memorial Award is presented to the engineering graduate who has demonstrated overall outstanding achievement in mechanical engineering or related field 20 years or more following graduation with a baccalaureate degree from a regular engineering program of a recognized college or university. The candidate's achievements will be examined for an application of basic engineering methods or principles.

The award, established in 1944 by Pi Tau Sigma in coordination with ASME, honors Charles Russ Richards, founder of Pi Tau Sigma at the University of Illinois, former head of mechanical engineering and dean of engineering at the University of Illinois and later President of Lehigh University. He was a member of ASME and served on its Board of Governors.

CHARLES RUSS RICHARDS MEMORIAL AWARD RECIPIENTS

1947 Jacob P. Den Hartog
1949 Arthur M. Wahl
1950 Burgess H. Jennings
1951 J. Kenneth Salisbury
1952 Jess H. Davis
1953 Thomas M. Lumly
1954 Robert H. Hughes
1955 Sylvan Cromer
1956 Everett M. Barber
1957 Wayne C. Edmister
1958 Donald C. Burnham
1959 M. Eugene Merchant
1960 Ascher H. Shapiro
1961 Harrison A. Storm, Jr.
1962 Dudley D. Fuller
1963 George F. Carrier
1964 Simon Ostrach
1965 Leonard J. Koch
1966 J. Lowen Shearer
1967 T. Cyril Noon
1968 Bernard W. Shaffer
1969 Robert E. Uhrig
1970 Ralph G. Nevins
1971 Howard L. Harrison
1972 Charles E. Jones
1973 Ali A. Seireg
1974 Richard J. Grosh
1975 Carl F. Zorowski
1976 Ali S. Argon
1977 Hassan A. Hassan
1978 John C. Chato
1979 John H. Lienhard
1980 Albert I. King
1981 Shien-Ming Wu
1982 Leroy S. Fletcher
1983 Peter A. Engel
1984 Ferdinand Freudenstein
1985 Ephraim M. Sparrow
1986 E. Kent Springer
1987 Allen F. Rhodes
1988 Ward O. Winer
1989 Ramesh K. Shah
1990 Ranga Komanduri
1991 Frederick F. Ling
1992 John H. Staehlin
1994 C. Dan Mote, Jr.
1995 Junuthula N. Reddy
1996 Tsu-Wei Chou
1997 Masayoshi Tomizuka
1998 Hong Thomas Hahn
1999 Ephraim Suhir
2000 Bharat Bhushan
2001 Adrian Bejan
2002 Salvatore Torquato
2003 Roop L. Mahajan
2005 Warren R. DeVries
2006 Ramesh K. Agarwal
2007 Richard O. Buckius
2008 Guruswami Ravichandran
2009 E. Daniel Hirleman, Jr.
2010 Yonggang Huang
2011 Huajian Gao
2012 Pol D. Spanos
2013 A. Galip Ulsoy
2014 Suresh V. Garimella
2015 Xiang Zhang
2016 Kenneth E. Goodson
2017 Jian Cao
2018 Kon-Well Wang
2019 Pradeep Sharma

CHARLES T. MAIN STUDENT LEADERSHIP AWARD

The Charles T. Main Award was established in 1919 in honor of the 37th President of ASME. In 1971, it was combined with the Arthur L. Williston Medal contest to encourage Student Members and young engineers to become active in public service. In 1983, the award was expanded to include a Second Place award. The award was renamed the Charles T. Main Student Leadership Award in 2014.

A new format for the Charles T. Main Award recognizes at the Society-wide level Student Members whose leadership and service qualities have contributed, for a period of more than one year, to the program and operation of a Student Section of the Society. First place is bestowed upon the student who best meets the award criteria, while second place is awarded to the student who is next best in meeting these criteria. Up to eight honorable mentions will be presented to qualified candidates.

CHARLES T. MAIN AWARD STUDENT LEADERSHIP AWARD RECIPIENTS – FIRST PLACE

1925 Clement R. Brown	Catholic University of America
1926 W.C. Taylor	Johns Hopkins University
1928 Robert M. Meyer	Newark College of Engineering
1930 Jules Podnosoff	Polytechnic Institute of Brooklyn
1931 Robert E. Klise	University of Michigan
1932 Marshall Anderson	University of Michigan
1933 George D. Wilkinson, Jr.	Newark College of Engineering
1934 Philip P. Self	Colorado State College
1935 G. Lowell Williams	Lafayette College
1937 Allan P. Stern	Case School of Applied Science
1938 Edward W. Connelly	University of Detroit
1939 James H. Bright	Lehigh University
1940 Frank de Pould	Case School of Applied Science
1941 John J. Balun	University of Detroit
1942 Bernard J. Isabella	Case School of Applied Science
1943 Mitchell C. Kazen	University of Detroit
1944 Fred M. Piaskowski	University of Detroit
1945 Jack Drandell	Southern Methodist University
1946 Victor S. Rykwalder	University of Detroit
1947 Alvaro R. Boera	Stevens Institute of Technology
1948 Earle Duane Stewart	University of Pittsburgh
1949 Stanley M. Kuvacheff	University of Detroit
1950 Richard T. Johnson	University of Detroit
1952 Israel E. Rubin	Cooper Union School of Engineering
1953 Peter Ashurkoff	Princeton University
1954 John B. Pendergrass, Jr.	Carnegie Institute of Technology
1955 Richard J. Slember	Cooper Union School of Engineering
1956 Marion J. Balcerzak	University of Detroit
1957 Joseph P. Hunter	University of Detroit
1958 Frank D. Sams	Clemson Agricultural College
1959 James L. Benson	University of Vermont
1960 John W. McDaniel	Rice Institute
1961 Lester W. Wurm	Kansas State University
1962 David W. Wieting	Lamar State College of Technology
1963 Robert Lafayette Ash	Kansas State University
1967 Muzzamil Niazi	Wichita State University
1968 Terry Dean Schmidt	University of Washington
1970 Steve H. Woodard	Arizona State University
1971 James M. Singleton	University of Alabama
1972 Harold Chapin Lowe	University of Kansas
1973 Gary Patrick Pezall	University of Wisconsin, Madison
1974 Adrian P. Villa	Clarkson College of Technology
1976 Scott Elliot Baker	Purdue University
1977 Charles S. Tamarin	Columbia University
1978 Emily Earle	Auburn University
1979 Richard A. Ferraro	State University of New York at Buffalo
1980 Russell S. Colvin	Louisiana Technical University
1981 Scott H. Bueher	Virginia Polytech Institute and State University
1982 Brenda B. Elarbee	University of South Florida
1983 Stephen A. Hight	Worcester Polytechnic Institute
1984 Linda Marie Hubbard	University of Rochester
1985 Anne Bazan	Western New England College
1986 Mark A. Meili	Kansas State University
1987 Keith G. Benedict	University of Southern Indiana
1988 Kelli L. Kowaleski	University of New Hampshire
1989 Kirk W. Olsen	University of Akron
1990 Darleen Centala	California State University, Long Beach
1991 Mark D. Conner	University of Alabama, Birmingham
1992 Maria D. Guerra	The City College, CUNY
1993 Carol J. Bates	Purdue University
1994 Robert R. Vallance	Virginia Polytechnic Institute
1995 John C. Schiffer	University of Akron
1996 Joseph G. McElhaney	Virginia Polytechnic Institute
1997 Fionna K. Murray	Virginia Polytechnic Institute
1998 Peter J. Umbdenstock	Mississippi State University
1999 Angela Carr	Virginia Polytechnic Institute and State University
2000 Michele A. Monnier	University of Dayton
2001 Andrea C. Hoth	Valparaiso University
2002 Amip Shah	Rowan University
2003 Jill C. Anderson	Boston University
2004 Stephen J. Klick	Boise State University
2005 Mandy Brogdon	University of Dayton
2006 Adeodato I. Botello-Arrendondo	University De Guanajuato
2007 Daniel Joseph Hanna	Drexel University
2008 Vince D. Romanin	University of Dayton
2009 Brianne M. Wilburne	The Pennsylvania State University
2010 Nathaniel Dale Taylor	Drexel University
2011 Danielle Jacobson	Drexel University
2012 Caitlin A. Correll	Cooper Union
2013 Leila C. Aboharb	Drexel University
2014 Meredith A. Campbell	Daniel Webster College
2015 Jonathan D. Jennings	University of Missouri
2016 Hind Hajjar	American University of Beirut
2017 Gemma Iruegas	Universidad Panamericana
2018 Brandon Graham	Rowan University
2019 Sandy Karam	Notre Dame University - Louaize

CHARLES T. MAIN AWARD RECIPIENTS – SECOND PLACE

1984 Douglas L. Wahl	Oregon Institute of Technology
1985 Scott E. Cooper, Jr.	University of NC at Charlotte
1986 Andre L. Boehman	University of Dayton
1987 Mark V. Martin	University of Oklahoma
1988 Robert R. Hardman	University of Alabama, Birmingham
1989 Tina A. Williams	Louisiana Technical University
1990 Anne Marie East	University of South Florida
1991 Richard L. Case	University of Nebraska, Lincoln
1992 Sara L. Farrar	Colorado State University
1993 Kathryn D. Jorgensen	Brigham Young University
1994 Connie J. Bleidorn	University of Dayton
Daniel J. Engert	Colorado State University
1995 Priya Rangaswamy	University of Illinois-Champaign
1996 Wade D. Vinson	University of Houston
1997 Lindy Hou	The City College - CUNY
M. Christine Roberts	Utah State University
1998 Angela Carr	Virginia Polytechnic Institute
1999 Michelle M. Hurler	Syracuse University
2000 Chad W. Jansen	University of Wisconsin-Madison
2001 Faye M. Tomimbang	Florida Institute of Technology
2002 Stephani Ferrufino	Virginia Polytechnic Institute
2003 Laura E. Basehore	Virginia Polytechnic Institute
2004 Aaron J. Ryan	Pella Corporation
2005 Justin M. Crapps	Mississippi State University
2006 Amanda M. Thomas	Virginia Tech
2007 Danielle Williams	Virginia Tech
2008 Jesse Aaron Huguet	University of Alabama
2009 Eduardo Jose Barrientos	Universidad Simon Bolivar
2010 Bianca L. Covington	University of Alabama
2011 Kenneth W. Schnautz	University of Southern Indiana
2012 Hardik Tiwari	Birla Institute of Technology and Science
2013 Sarah E. Johnson	University of Alabama
2014 Claire C. Harper	University of Alabama
2015 Caleb Amy	Georgia Institute of Technology
2016 Eduardo Guevara	National and Autonomous University of Mexico
2017 Jithu Paulose	Federal Institute of Science and Technology
2018 Joseph Pechstein	Milwaukee School of Engineering
2019 Abhijith J. Kumar	Federal Institute of Science and Technology

DANIEL C. DRUCKER MEDAL

The Daniel C. Drucker Medal was established in 1997 and is conferred in recognition of distinguished contributions to the field of applied mechanics and mechanical engineering through research, teaching, and service to the community over a substantial period of time.

Instituted by the Applied Mechanics Division, the medal honors Dr. Daniel Drucker and commemorates his service to the profession.

DANIEL C. DRUCKER MEDALISTS

1998 Daniel C. Drucker
1999 Ascher H. Shapiro
2000 Philip G. Hodge, Jr.
2001 Bruno A. Boley
2002 George J. Dvorak
2003 Leon M. Keer
2004 Frank A. McClintock
2005 Robert L. Taylor
2006 Alan Needleman
2007 Albert S. Kobayashi
2008 Thomas C. T. Ting
2009 James R. Barber
2010 Rohan C. Abeyaratne
2011 John W. Rudnicki
2012 James W. Dally
2013 Yonggang Huang
2014 Lallit Anand
2015 K. Ravi-Chandar
2016 Kyung-Suk Kim
2017 David M. Parks
2018 David M. Barnett
2019 John L. Bassani

DIXY LEE RAY AWARD

The Dixy Lee Ray Award, established in 1998, recognizes significant achievements and contributions in the broad field of environmental protection. As a general rule, in alternate years achievement in the following areas will be recognized: environmental engineering, including environmental technology and related topics; and other environmental areas, including environmental health, environmental sciences, environmental management and policy, and related topics.

The award was established in honor of Dixy Lee Ray's advocacy to the development of those technologies that serve humanity. She believed that the engineering profession was uniquely qualified to develop and implement environmentally acceptable technologies.

DIXY LEE RAY AWARD RECIPIENTS

1999 Clyde W. Frank
2000 Seymour K. Padnos
2001 John F. Elter
2002 Mohammad A. Al-Sarawi
2003 Ines R. Triay
2004 Pedro A. Gelabert
2005 Goetz K. Oertel
2006 Richard Pombo
2007 Richard Wilson
2008 Peter Maggiore
2009 Robert G. Watts
2011 Thad W. Allen
2012 Goshi Hosono
2013 Aníbal L. Taboas
2014 Leo P. Duffy
2015 Kaufui Vincent Wong
2016 Jerald L. Schnoor
2018 C. Andrew Miller

EDWIN F. CHURCH MEDAL

In 1972, the Society established the Edwin F. Church Medal to be awarded annually, if warranted, to the individual who has rendered eminent service in increasing the value, importance, and attractiveness of mechanical engineering education through any appropriate mechanism, including universities, technical institutes, professional society educational activities, continuing education programs of professional societies and private groups, in-house professional development programs of industrial concerns and governmental agencies, programmed learning, and self-instruction systems.

Nominees may or may not be professional educators. However, the award is not intended to recognize professional educators on that merit alone.

The "eminent service" to be considered for the award as performed by the professional educator must be above and beyond the nominee's normal activities performed as part of the duties of a professional educator.

Excellence in teaching, research, administration, and publications by professional engineering educators is not pertinent, unless that activity is outside the usual scope of the nominee's organization or institution.

The Edwin F. Church Medal may be made to one recipient of any age who need not be a member of ASME. It is administered by the General Awards Committee, which secures nominations and makes recommendations to the Committee on Honors, who selects the recipient.

The Edwin F. Church Medal was established from a bequest of Edwin F. Church, Jr. (1879-1964), loyal member of ASME, devoted supporter of ASME student activities, dedicated teacher and, for 32 years, professor of mechanical engineering and head of the department at the Polytechnic Institute of Brooklyn.

EDWIN F. CHURCH MEDALISTS

1973 Wilber R. Leopold
1974 Hobart A. Weaver
1975 Harry Conn
1976 Frank W. Von Flue
1979 Kenneth A. Roe
1980 Dennis K. Bushnell
1981 Neal P. Jeffries
1982 Clinton H. Britt
1984 Milo Price
1985 Emil L. Martinec
1987 Garland H. Duncan
1988 Dale E. Klein
1989 Adolph T. Molin
1990 James R. Welty
1991 Joseph A. Falcon
1992 Stephen Juhasz
1993 Larry C. Oyen
1994 Avram Bar-Cohen
1997 Dean Kamen
1998 Allan K. Kraus
1999 Woodie C. Flowers
2000 John H. Lienhard
2001 Frank Kreith
2002 William S. Hammack
2003 Devendra Garg
2004 David Lavery
2005 Vincent Wilczynski
2009 Wilber J. Marner
2011 Ramesh K. Agarwal
2012 Kenneth S. Ball
2013 William M. Worek
2014 John W. Cipolla
2015 William J. Wepfer
2016 Karen A. Thole
2017 Francis A. Kulacki
2018 Kendra V. Sharp
2019 Andreas Polycarpou

FLUIDS ENGINEERING AWARD

The Fluids Engineering Award is bestowed for outstanding contributions, over a period of years, to the engineering profession and especially to the field of fluids engineering through research, practice, and/or teaching.

The award was established by the Fluids Engineering Division in 1968 and operated as a division award until 1978, when it was elevated to a Society award.

FLUIDS ENGINEERING AWARD RECIPIENTS

1979 Robert C. Dean, Jr.
1981 Ascher H. Shapiro
1983 George Rudinger
1984 Hans W. Liepmann
1985 Apollo M.O. Smith
1986 Milton S. Plesset
1987 Mark V. Morkovin
1988 Allan J. Acosta
1989 William C. Reynolds
1990 Turgut Sarpkaya
1991 Frank M. White
1992 Christopher E. Brennen
1993 Roger E.A. Arndt
1994 Graham B. Wallis
1995 Clayton T. Crowe
1996 Budugur Laskhminarayana
1997 Virendra C. Patel
1998 Michael Roco
1999 Michael P. Paidoussis
2000 Fazle Hussain
2001 Ramesh K. Agarwal
2002 Paul Cooper
2003 Marvin E. Goldstein
2004 Joseph Katz
2005 Andrea Prosperitti
2006 Wolfgang A. Rodi
2007 Alexander J. Smits
2008 Ching-Jen Chen
2009 Ronald J. Adrian
2011 John F. Foss
2012 Gretar Tryggvason
2013 Ephraim J. Gutmark
2014 Efstathios S. Michaelides
2015 Promode R. Bandyopadhyay
2016 Patrick J. Roache
2017 Michael W. Plesniak
2018 Upendra S. Rohatgi
2019 Nadine Aubry

FRANK KREITH ENERGY AWARD

The Frank Kreith Energy Award was established in 2005 to honor an individual for significant contributions to a secure energy future with particular emphasis on innovations in conservation and/or renewable energy. Contributions may be through research, education, practice or significant service to society that will lead to a sustainable energy future.

The Award was established by the Solar Energy and Advanced Energy Systems Divisions to honor Dr. Frank Kreith's contributions to the field of heat transfer and solar energy.

FRANK KREITH ENERGY AWARD RECIPIENTS

2006 Roland Winston
2007 D. Yogi Goswami
2008 Ari Rabl
2009 Robert H. Socolow
2010 Byard D. Wood
2011 Ann Marie Sastry
2012 Jane H. Davidson
2013 James E. Smith
2015 Michael Webber
2016 Aldo Steinfeld
2017 Gershon Grossman
2018 William M. Worek
2019 Gang Chen

GEORGE WESTINGHOUSE MEDALS

The George Westinghouse Medals are bestowed for eminent achievement or distinguished service in the power field of mechanical engineering. The Silver Medal is bestowed upon one who is not yet 45 years of age on June 30 of the year in which the medal is awarded. Considering power in the broad sense, the basis of the awards shall include contributions of utilization, application, design, development, research, and the organization of such activities in the power field.

Candidates are not restricted by profession nor by membership in any engineering society or organization.

To perpetuate the value of the rich contribution to power development made by George Westinghouse, Honorary Member and 29th President of the Society, the Westinghouse Educational Foundation established the Gold Medal in 1952 and the Silver Medal in 1971.

GEORGE WESTINGHOUSE GOLD MEDALISTS

1953 Alexander G. Christie
1954 Walker L. Cisler
1955 Hyman G. Rickover
1956 Perry W. Pratt
1957 Alfred Iddles
1958 Frederick P. Fairchild
1960 Ernest C. Gaston
1961 Gerald V. Williamson
1962 Edwin H. Kreig
1963 Abbott L. Penniman, Jr.
1964 Frederick W. Argue
1965 Robert A. Bowman
1966 Robert C. Allen
1967 Robert A. Baker, Sr.
1968 Roland A. Budenholzer
1969 Ralph C. Roe
1970 Charles A. Meyer
Robert C. Spencer, Jr.
1971 Wilfred McGregor Hall
1972 William S. Lee
1973 Bernard F. Langer
1974 Charles W. Elston
1976 John W. Simpson
1978 Peter Fortescue
1979 William R. Gould
1980 Fred J. Moody
1981 Earle C. Miller
1982 William T. Reid
1983 Eugene P. Wilkinson 1984
Joseph R. Szydlowski
1985 Eugene A. Saltarelli
1986 Richard J. Coar
1987 Henry O. Pohl
1988 Warren A. Rhoades, Jr.
1989 J. Ed Smith
1990 John J. Taylor
1991 Ralph J. Ortolano
1992 Daniel R. Wilkins
1993 Frederick W. Buckman
1995 Thomas H. McCloskey
1998 Ashwani K. Gupta
1999 Atambir S. Rao
2000 David G. Lilley
2001 János M. Beér
2002 Arthur H. Lefebvre
2003 Yassin A. Hassan
2004 Adel F. Sarofim
2005 Subramanyam R. Gollahalli
2006 Ben T. Zinn
2007 Roman Weber
2008 Edwin A. Harvego
2009 Essam E. Khalil
2010 Wlodzimierz Blasiak
2011 Nicholas Syred
2012 Richard R. Schultz
2013 Yiannis A. Levendis
2014 Ryoichi S. Amano
2015 Karen A. Thole
2016 Kenneth Bray
2017 Alan Williams
2018 Timothy C. Lieuwen
2019 Hameed Metghalchi

GEORGE WESTINGHOUSE SILVER MEDALISTS

1972 William E. Rice
1973 Michael A. Ambrose
1974 Shelby L. Owens
1976 Richard V. Shanklin, III
1977 James C. Corman
1978 Romano Salvatori
1979 Edward W. Stenby
1980 Robert L. Gamble
1981 Ronald Pigott
1982 Leslie D. Kramer
1983 Remco P. Waszink
1984 William J. Bryan
1986 Joseph A. Barsin
1987 Albert D. LaRue
1989 Scott A. Patulski
1990 Atambir S. Rao
1991 John B. Kitto, Jr.
1993 Stephen R. Reid
1995 V.K. “Bindi” Chexal
1998 Ting Wang
2001 Susumu Mochida
2003 Jason E. Jenkins
2005 Andrzej Szlek
2009 Somrat Kerdsuwan
2010 Timothy C. Lieuwen
2011 Margaret S. Wooldridge
2012 Weihong Yang
2015 Angela Violi
2016 Elia Merzari
2017 Frédéric Villeneuve

GUSTUS L. LARSON MEMORIAL AWARD

The Gustus L. Larson Memorial Award is presented to the engineering graduate who has demonstrated overall outstanding achievement in mechanical engineering or related field within 10 to 20 years following graduation with a baccalaureate degree from a regular engineering program of a recognized college or university. The candidate's achievements will be examined for an application of basic engineering methods or principles.

The award, established in 1974, honors Gustus L. Larson, ASME Fellow and founder of Pi Tau Sigma at the University of Wisconsin. He was a recognized leader in heating, ventilating, and air conditioning and was a former president of the ASHVE.

GUSTUS L. LARSON MEMORIAL AWARD RECIPIENTS

1975 Chang-Lin Tien
1976 John G. Bollinger
1977 Nam P. Suh
1978 Philip H. Francis
1979 Gerald R. Seemann
1980 Arthur G. Erdman
1981 Terry E. Shoup
1982 Melvyn C. Branch
1983 R. Byron Pipes
1984 Robert A. Altenkirch
1985 Klaus-Jurgen Bathe
1986 Bharat Bhushan
1987 David L. Butler
1988 Adrian Bejan
1989 Boris Rubinsky
1990 Dale E. Klein
1991 Pol D. Spanos
1992 George P. Peterson
1993 Bahram Ravani
1994 Salvatore Torquato
1995 Wing Kam Liu
1996 David N. Ku
1997 Suhada Jayasuriya
1998 Jamal Seyed-Yagoobi
1999 James F. Oliver
2000 Cristina H. Amon
2001 Arunava Majumdar
2002 Thomas R. Kurfess
2003 Yonggang Huang
2004 Suresh V. Garimella
2005 Robert Parker
2006 Narayana R. V. Aluru
2008 Andrew G. Alleyne
2009 Anna G. Stefanopoulou
2010 Andrei G. Fedorov
2011 Arvind Raman
2012 Nicolas Hadjiconstantinou
2013 William P. King
2014 Wei Lu
2015 Nikhil Ashokrwin Koratkar
2016 Kenneth T. Christensen
2017 Evelyn N. Wang
2018 Kripa K. Varanasi
2019 Yong Zhu

H.R. LISSNER MEDAL

The H.R. Lissner Award is presented for outstanding accomplishments in the area of bioengineering in the form of significant research contributions; development of new methods of measuring; design of new equipment and instrumentation; educational impact in the training of bioengineers; or service to the bioengineering community and/or the ASME Bioengineering Division. The award was established by the Bioengineering Division in 1977 and operated as a division award until 1987, when it was elevated to a Society-level Award.

H.R. LISSNER MEDALISTS

1987 Van C. Mow
1988 Alf L. Nachemson
1989 Robert M. Nerem
1990 Albert B. Schultz
1991 Savio L.Y. Woo
1992 John C. Chato
1993 Don P. Giddens
1994 Sheldon Weinbaum
1995 Robert E. Mates
1996 Albert I. King
1997 Ajit P. Yoganathan
1998 Malcolm H. Pope
1999 Stephen C. Cowin
2000 Morton H. Friedman
2001 W. Michael Lai
2002 Kenneth R. Diller
2003 Vijay K. Goel
2004 John M. Tarbell
2005 Steven A. Goldstein
2006 Peter A. Torzilli
2007 Maury Lane Hull
2008 Noshir A. Langrana
2009 Thomas P. Andriacchi
2010 Roger D. Kamm
2011 Jay D. Humphrey
2012 David L. Butler
2013 Mehmet Toner
2014 Kyriacos A. Athanasiou
2015 James A. Ashton-Miller
2016 Roger C. Haut
2017 Gerard A. Ateshian
2018 Louis J. Soslowsky
2019 Jennifer S. Wayne

HEAT TRANSFER MEMORIAL AWARD

The Heat Transfer Memorial Award is bestowed on individuals who have made outstanding contributions to the field of heat transfer through teaching, research, design, or publications.

Each award is based on achievement through publications in an area of heat transfer or through the application of science or art of heat transfer. One award may be made annually in each of the three following categories: the science of heat transfer, the art of heat transfer, or the general subject of heat transfer. Recipients are not restricted by nationality, age, or society membership.

The award was established by the Heat Transfer Division in 1959 and operated as a Divisional award until 1974, when it was elevated to a Society-level award.

HEAT TRANSFER MEMORIAL AWARD RECIPIENTS

1975 Peter Griffith
Simon Ostrach
1976 Warren H. Giedt
Raymond Viskanta
1977 Robert D. Cess
Rolf H. Sabersky
1978 Richard J. Goldstein
John A. Clark
1979 Arthur E. Bergles
Yih-Yun Hsu
1980 John H. Lienhard
1981 Ared Cezairliyan
Kwang-Tzu Yang
Ivan Catton
1982 Yasuo Mori
1983 Roger Eichhorm
1984 Wei-Jei Yank
1985 Ralph Greif
Virgil E. Schrock
1986 Richard C. Chu
Arcot Ramachandran
1987 Ralph L. Webb
M. Necati Ozisik
1988 Gerard M. Faeth
Frank P. Incropera
1989 Bora B. Mikic
Tom J. Love, Jr.
Robert J. Moffat
1990 Alfred L. Crosbie
Michael M. Chen
Michael G. Dunn
1991 John R. Howell
Kenneth L. Johnson
Suhas V. Patankar
1992 Vijay K. Dhir
Thomas F. Irvine, Jr.
Wataru Nakayama
1993 Vedat S. Arpaci
W. J. Minkowycz
1994 Kenneth R. Diller
Adrian Bejan
1995 John R. Lloyd
Yogesh Jaluria
1996 Boris Rubinsky
Ping Cheng
Leroy S. Fletcher
1997 Chung K. Law
Sadik Kakac
1998 Amir Faghri
James V. Beck
1999 Sanjoy Banjerjee
Soung M. Cho
Avram Bar-Cohen
2000 Ta-Shen Chen
Ramesh K. Shah
Ashley F. Emery
2001 Portonovo S. Ayyaswamy
George P. Peterson
2002 Massoud Kaviany
Je-Chin Han
Roop L. Mahajan
2003 Dimos Poulikakos
M. Michael Yovanovich
James R. Welty
2004 Mohammad Faghri
Yildiz Bayazitoglu
2005 Abdolhossein Haji-Sheikh
Michael Modest
Wei Shyy
2006 Arun Majumdar
C. Thomas Avedisian
Kambiz Vafai
2007 Donald M. McEligot
Costas Grigoropolous
Van P. Carey
2008 Lawrence A. Kennedy
Leon R. Glicksman
Gang Chen
2009 Cristina H. Amon
Jong H. Kim
Richard H. Pletcher
2010 Suresh V. Garimella
John R. Thome
Mamoru Ishii
2011 Bengt A. Sunden
Sumanta Acharya
2012 Chang H. Oh
Satish G. Kandlikar
Javad T. Mostaghimi
2013 Aldo Steinfeld
Yogendra Joshi
Issam Mudawar
2014 Jacob Nan-Chu Chung
Xianfan Xu
Kenneth E. Goodson
2015 John H. Lienhard V
Francis A. Kulacki
Zhuomin Zhang
2016 Raj M. Manglik
Jayathi Y. Murthy
Brent W. Webb
2017 Zahid H. Ayub
Christoph Beckermann
Mohammed El-Genk
2018 Li Shi
M. Pinar Mengüç
Timothy S. Fisher
2019 Dereje Agonafer
James Klausner
Satwindar S. Sadhal

HENRY LAURENCE GANTT MEDAL

The Henry Laurence Gantt Medal, established in 1929 and elevated to a Society-level award in 1999, is given for distinguished achievement in management and for service to the community.

The medal was established in honor of Henry Laurence Gantt, a prolific writer and one of the first leaders in the scientific management movement to express concern for the human element of productivity.

His enduring legacy is the philosophy that seeks to turn the potential of industry into a broad contribution of service to society. He believed that managers should "view their activities from the vantage point of the larger communities business serves, thus dedicating themselves to the doctrine of service."

HENRY LAURENCE GANTT MEDALISTS

2000 Paul Soros
2001 Roy M. Huffington
2002 Alexander W. Dreyfoos
2003 William R. Timken, Jr.
2004 Julie Spicer England
2005 Kathleen M. Bader
2006 Charla K. Wise
2018 Todd R. Allen
2019 Margaret G. McCullough

HENRY R. WORTHINGTON MEDAL

The Henry R. Worthington Medal is bestowed for eminent achievement in the field of pumping machinery. Examples of such achievement may be in the areas of research, development, design, innovation, management, education, or literature. The award was established by Worthington Pump, Inc., in 1980.

HENRY R. WORTHINGTON MEDALISTS

1980 Igor J. Karassik
1981 Warren G. Whippen
1982 Allan J. Acosta
1983 Calvin A. Gongwer
1984 Harold H. Anderson
1985 Samuel L. Collier
1986 Warren H. Fraser
1987 John E. Miller
1988 Raymond B. Furst
1989 Kenneth L. Treiber
1990 Irving Taylor
1991 Dara W. Childs
1992 Elemer Makay
1993 Paul Cooper
1994 Edward Grist
1995 William E. Nelson
1996 Richard F. Salant
1997 Thomas J. Fritsch
1999 Frank Weis
2000 Peter Hergt
2003 Stuart L. Scott
2009 Manfred Rautenberg
2010 David Japikse
2011 Donald P. Sloteman
2012 Abraham Engeda
2013 Steven M. Tipton
2014 Gerald L. Morrison
2015 Jinkook Lee
2016 Bruno Schiavello
2017 Yu-Tai Lee
2018 Jaikrishnan R. Kadambi
2019 Akira Goto

HOLLEY MEDAL

The Holley Medal is bestowed only on an individual who, by some great and unique act(s) of an engineering nature, has accomplished a great and timely public benefit. In judging the merits of any candidate for this award, no limitations shall arise out of the nominee's formal degree of education, membership in any society or organization, or the circumstances of employment or official position.

Attention shall be concentrated on the brilliance of the art—not on the individual.

The achievement should be of such public importance as to be worthy of the gratitude of the nation and to call forth the admiration of engineers.

In 1973, eligibility for this award was amended to recognize more than one individual for a single achievement, provided that each individual made an equal or comparable contribution.

The medal was established in 1924 to honor Alexander L. Holley, Charter Member of the Society, by George I. Rockwood, Honorary Member and Vice President of ASME from 1924 to 1925.

HOLLEY MEDALISTS

1924 Hjalmar G. Carlson
1928 Elmer A. Sperry
1930 Baron C. Shiba
1934 Irving Langmuir
Germeshausen
1936 Henry Ford
1937 Frederick G. Cottrell
1938 Francis Hodgkinson
1939 Carl E. Johansson
1940 Edwin H. Armstrong
1941 John C. Garand
1942 Ernest O. Lawrence
1943 Vannevar Bush
1944 Carl L. Norden
1945 Sanford A. Moss
1946 Norman Gibson
1947 Raymond D. Johnson
1948 Edwin H. Land
1950 Charles G. Curtis
1951 George R. Fink
1952 Sanford L. Cluett
1953 Philip M. McKenna
1954 Walter A. Shewhart
1955 George J. Hood
1957 Charles S. Draper
1959 Col. Maurice J. Fletcher
1961 Thomas Elmer Moon
1963 William Schockley
1968 Chester F. Carlson
1969 Willis J. Whitfield
1973 Harold E. Edgerton
Kenneth J. Germeshausen
1975 George M. Grover
1976 Emmet N. Leith
Juris Upatnieks
1977 J. David Margerum
1979 Bruce G. Collipp
Douwe De Vries
1980 Soichiro Honda
1982 Jack St. Clair Kilby
1985 John V. Atanasoff
1986 Wilson Greatbatch
1987 Robert J. Moffat
1988 Vernon D. Roosa
1989 Jack S. Kilby
Jerry D. Merryman
James H. Van Tassel
1990 Roy J. Plunkett
1991 James R. Thompson, Jr.
1994 Dominick Danna
Richard W. Newman
William C. Moore
1996 Bernard J. Miller
1998 Donna L.Shirley
2001 Heinz Erzberger
2005 James D. Walker
2008 David +G. Lilley
2010 Ashwani K. Gupta

HONORARY MEMBER

An Honorary Member shall be a person who has made "distinctive contributions" to engineering, science, industry, research, public service, or other pursuits allied with and beneficial to the engineering profession.

Honorary Membership was first awarded in 1880, the founding year of the Society. The roster of Honorary Members contains the names of leaders of world renown who have been selected under carefully drawn procedures rigorously maintained by the Society over the years.

In 1962, the ASME further defined this statement as "distinguished service that contributes significantly to the goals of the engineering profession." While this definition may sometimes imply career-long dedicated activity, that alone is not adequate for this highest level of Society membership.

The Board of Governors may elect up to five Honorary Members each year (By-Law B3.1.10). An Exception was made in 1980—the Centennial Year of the Society—when thirty-eight Honorary Members were elected.

HONORARY MEMBERS (LIVING)

1977 Ivar Giaever
1979 H. Norman Abramson
1980 Jimmy Carter
Robert M. Drake, Jr.
Jost M. Haenny
Yu-Tung Hu
Alexander L. London
Frithiof I. Niordson
Jacques Peters
Kenneth Preiss
1981 James L. Everett
1985 Ronald L. Geer
Theodore H.H. Pian
1986 Bernard Crossland
1989 Hans W. Liepmann
1990 George Herrmann
1991 George N. Sandor
1992 Richard M. Christensen
Richard J. Goldstein
Bernard L. Koff
1993 Joseph M. Juran
1995 Thomas R. Kane
Paul Leung
John H. Lienhard
1996 Yuan-Cheng B. Fung
Ascher H. Shapiro
1997 L. S. "Skip" Fletcher
Salomon Levy
C. Dan Mote, Jr.
Reginald I. Vachon
1998 Genichi Taguchi
1999 W. Wayne Allen
Michael M. Carroll
John Dundurs
2001 Earnest L. Daman
Henry McDonald
2002 Jan D. Achenbach
Bei Tse Chao
Amos E. Holt
2003 Richard Rosenberg
Karl J. Springer
John A. Swanson
2004 Ray M. Bowen
J. Tinsley Oden
2005 Sia Nemat-Nasser
2006 Alva L. Addy
James R. Welty
Ward O. Winer
Charles O. Velzy
John H. Sununu
2007 Avran Bar-Cohen
Bobby L. Green
2008 Nancy D. Fitzroy
2009 David L. Belden
Winfred M. Phillips
William A. Weiblen
2010 William J. "Bill" Adams
Harry Armen
Keith B. Thayer
David N. Wormley
Sam Y. Zamrik
Paul J. Torpey
2011 Adrian Bejan
Nathan H. Hurt
Junuthula N. Reddy
2012 Yildiz Bayazitoglu
Zdĕnek P. Bažant
Vijay K. Dhir
Yogesh Jaluria
2013 Ted Belytschko
John R. Howell
Said Jahanmir
Sadik Kakaç
Arunava Majumdar
2014 Warren R. DeVries
Robert E. Nickell
Pol D. Spanos
2015 Romesh Batra
Webb Marner
Terry E. Shoup
2016 Cristina H. Amon
Ashwani Gupta
Shiv G. Kapoor
2017 Ramesh K. Agarwal
John W. Cipolla
Michael F. Modest
2018 Portonovo S. Ayyaswamy
Alan Needleman
Robert M. Nerem
Frank E. Talke
2019 Bilal M. Ayyub
D. Yogi Goswami
Amir Faghri

INTERNAL COMBUSTION ENGINE AWARD

The Internal Combustion Engine Award (previously the Diesel and Gas Engine Power Award) is given in recognition of eminent achievement or distinguished contribution over a substantial period of time, which may result from research, innovation, or education in advancing the art of engineering in the field of internal combustion engines; or in directing the efforts and accomplishments of those engaged in engineering practice in the design, development, application, and operation of internal combustion engines.

In 1966, by bequest, the Diesel and Gas Engine Power Division established this award.

INTERNAL COMBUSTION ENGINE AWARD RECIPIENTS

1967 Frederick P. Porter
1969 Leo T. Brinson, Jr.
1971 Melvin J. Helmich
1972 R. Rex Robinson
1973 Warren A. Rhoades
1974 Warren J. Severin
1975 William Spelcher
1979 Helmuth G. Braendel
1981 Phillip S. Myers
1982 David B. Field
1983 James H. Garrett
1984 Samuel S. Lestz
1985 John M. Bailey
1986 Hugh A. Williams, Jr.
1987 Garin M. VanDeMark
1989 Richard D. Kieser
1990 Daniel C. Garvey
1991 Fred S. Schaub
1992 John A. Kimberley
1993 Edward F. Obert
1994 Otto A. Uyehara
1995 John C. Hallinan
1997 Benny Ballheimer
1999 Serge Gratch
2000 Charles A. Amann
2002 Warren E. Snyder
2003 Rodica A. Baranescu
2004 Humphrey Niven
2005 Karl J. Springer
2006 N. Richard Dunteman
2007 Paul R. Danyluk
2008 Dionissios N. Assanis
2009 Ronald D. Matthews
2010 John E. Dec
2011 Rolf D. Reitz
2012 Nicholas P. Cernansky
2013 John H. Johnson
2014 Robert M. Wagner
2015 Volker Sick
2016 Terrence F. Alger II
2017 Paul Miles
2018 Dennis L. Siebers
2019 Peter K. Senecal

J.P. DEN HARTOG AWARD

The J.P. Den Hartog Award is given in recognition for lifetime contributions to the teaching and practice of vibration engineering.

The award was established by the Design Engineering Division in 1987 and operated as a Divisional Award until 2010, when it was elevated to a Society-level award.

J.P. DEN HARTOG AWARD RECIPIENTS

2011 Chieh-Su Hsu
2013 Peter B. Hagedorn
2015 David John Ewins
2017 Kon-Well Wang
2019 Singiresu S. Rao

J. HALL TAYLOR MEDAL

The J. Hall Taylor Medal is presented for distinguished service or eminent achievement in the field of codes and standards pertaining to the broad fields of piping and pressure vessels that are sponsored or undertaken by ASME. The scope shall include contributions to technical advancement and administration.

Candidates may be of any age. They should preferably be members of the Society, but this is not an essential criterion.

In 1965, by a bequest through the ASME activity in codes and standards, the Taylor Forge and Pipe Works established this award to commemorate the pioneering work of J. Hall Taylor in the field of standardization of industrial products and safety codes for their usage.

J. HALL TAYLOR MEDALISTS

1966 Frank S.G. Williams
1967 David B. Wesstrom
1968 Max B. Higgins
1969 Everett O. Waters
1970 Bernard F. Langer
1971 James M. Guy
1972 William Rolfe Gall
1973 John D. Mattimore
1974 Jean E. Lattan
1975 Walter H. Davidson
Frederick A. Hough
Joe J. King
Burton T. Mast
Andrew J. Shoup
1977 James S. Clarke
Raymond R. Maccary
1978 Adolph O. Schaefer
1979 John F. Harvey
1980 Paul M. Brister
1981 Robert J. Cepluch
1982 George V. Smith
1983 Lowell L. Elder
1984 William D. Doty
1985 Robert C. Griffin
1986 James R. Farr
1987 Stephen A. Bergman
1988 George E. Fratcher
1989 Walter R. Mikesell
1990 William R. Apblett, Jr.
1991 Bernard W. Bace
1992 Maan H. Jawad
1993 Clyde C. Neely
1994 Domenic A. Canonico
1995 Guido G. Karcher
1996 Marcus N. Bressler
1997 John R. MacKay
1998 Martin D. Bernstein
1999 Richard E. Feigel
2000 Ernest A. Steen
2001 William N. McLean
2002 Allen Selz
2003 Michael Gold
2004 J. Robert Sims
2005 Blaine W. Roberts
2006 Thomas P. Pastor
2007 Donald F. Landers
2008 Joel G. Feldstein
2009 Owen F. Hedden
2010 Urey R. Miller
2011 Mahendra D. Rana
2012 Jeffrey F. Henry
2013 David Berger
2014 Charles Becht IV
2015 Peter A. Molvie
2016 Jon E. Batey
2017 Ronald W. Haupt
2018 Daniel T. Peters
2019 Walter J. Sperko

JAMES HARRY POTTER GOLD MEDAL

The James Harry Potter Gold Medal is awarded in recognition of eminent achievement or distinguished service in the appreciation of the science of thermodynamics and its applications in mechanical engineering. The basis of the award shall include contributions involving the teaching, appreciation, or utilization of thermodynamic principles in research, development, and design in mechanical engineering. The award was established in 1980 in honor of James H. Potter.

JAMES HARRY POTTER GOLD MEDALISTS

1980 Alexander L. London
1981 Joseph Kestin
1982 Paul Leung
1983 Kenneth C. Cotton
1984 Robert H. Page
1985 Warren H. Giedt
1986 Jack P. Holman
1988 Richard A. Gaggioli
1990 Adrian Bejan
1991 James B. Jones
1992 David Japikse
1993 George J. Silvestri, Jr.
1995 Elias P. Gyftopoulos
1996 Antonio Valero
1997 Michael J. Moran
1998 George Tsatsaronis
1999 C. Thomas Avedisian
2000 Dimos Poulikakos
2001 Kunio Yoshikawa
2003 Aswhani K. Gupta
2004 Van P. Carey
2005 Amir Faghri
2006 Richard O. Buckius
2007 Satwindar Sing Sadhal
2008 Merle C. Potter
2009 Claus Borgnakke
2010 Massoud Kaviany
2011 Mohamad Metghalchi
2012 Essam E. Khalil
2013 Sanford A. Klein
2014 Michael R. von Spakovsky
2015 Ahmed F. Ghoniem
2016 Derek Bradley
2018 Raj M. Manglik

JAMES N. LANDIS MEDAL

The James N. Landis Medal is given for outstanding personal performance related to designing, constructing, or managing the operation of major steam-powered electric stations using nuclear or fossil fuels, coupled with personal leadership in humanitarian pursuits, which may include committee activity, Section leadership, or the broad non-technical, professional activity of the individual's engineering society.

The award was established in 1977 in honor of James N. Landis, President of ASME in 1958. The award is presented preferably to a member of the Society.

JAMES N. LANDIS MEDALISTS

1977 James N. Landis
1978 William E. Hopkins
1980 Harvey F. Brush
1981 Vincent S. Boyer
1982 Huberto R. Platz
1983 Byron Lee, Jr.
1984 Mendall H. Long
1986 John W. Turk, Jr.
1987 Warren H. Owen
1989 Wallace B. Behnke, Jr.
1990 John E. Dolan
1991 William S. Lee
1992 George V. McGowan
1993 Roland J. Jensen
1994 Osmund W. Dixon
1995 Eugene V. Abraham
1996 Robert P. McDonald
1999 Zack T. Pate
2000 P.J. Adam, Jr.
2001 Corbin A. McNeill, Jr.
2002 Elmer B. Harris
2003 William D. Magwood, IV
2004 Toshiaki Hasegawa
Ashwani K. Gupta
2006 Harold R. Denton
2008 Dale E. Klein
2010 Regis A. Matzie
2012 Peter B. Lyons
2014 Susumu Mochida
2017 Yassin A. Hassan

JOHNSON & JOHNSON CONSUMER COMPANIES, INC. MEDAL

The ASME Johnson & Johnson Consumer Companies, Inc. Medal, bestowed by the ASME Board on Diversity and Outreach and Johnson & Johnson Consumer Companies, Inc., recognizes outstanding contribution by an individual, company, government entity, school, or other organization toward developing and implementing practices, processes and programs that value and strategically manage diversity and inclusiveness.

Award applicants must be a member of ASME or of a recognized engineering/professional society. If the applicant is an institution or organization, it must have had an established program in operation for a minimum of three years with more than 25 active participants.

Lastly, the applicant must not have been involved with litigation related to discrimination or harassment within the past three years.

The award was established by the Board on Diversity and Outreach in 2004 through the generous contributions of individual ASME members and Johnson & Johnson Consumer Companies, Inc.

JOHNSON & JOHNSON CONSUMER COMPANIES, INC. MEDALISTS

2005 Joseph Bordogna
2006 Abel Hernandez-Guerrero
2007 Genesys Works
2008 Klod Kokini
2009 Richmond Area Program for Minorities in Engineering, Inc.
2012 Penn State University Engineering Ambassadors Program

KATE GLEASON AWARD

The Kate Gleason Award, established in 2011 by the ASME Foundation, seeks to honor an individual female engineer who is a highly successful entrepreneur in a field of engineering or someone who had a lifetime of achievement in the engineering profession.

KATE GLEASON AWARD RECIPIENTS

2011 Yvonne C. Brill
2012 Edith H. Stern
2013 Ann P. Dowling
2014 Ursula M. Burns
2015 F. Suzanne Jenniches
2016 Helen L. Reed
2018 Awatef A. Hamed

M. EUGENE MERCHANT MANUFACTURING MEDAL OF ASME/SME

The M. Eugene Merchant Manufacturing Medal of ASME/SME is awarded to an individual who has had significant influence and responsibility for improving the productivity and efficiency (either by research or by implementation of research) of the manufacturing operation(s).

This award was established in 1986 by ASME and the Society of Manufacturing Engineers in honor of M. Eugene Merchant.

M. EUGENE MERCHANT MANUFACTURING MEDALISTS

1987 Seiuemon Inaba
1988 Donald E. Petersen
1989 Brian H. Rowe
1990 Thorton A. Wilson
1991 Edson I. Gaylord
1992 Günter Spur
1993 Robert H. Wentorf, Jr.
1994 George M.C. Fisher
1995 Laurence C. Seifert
1996 Erich Bloch
1997 Norman R. Augustine
1998 James F. Lardner
1999 W. Dale Compton
2000 Koichi Nishimura
2001 Geoffrey Boothroyd
2002 Richard E. Dauch
2003 Branimir F. von Turkovich
2004 David A. Stephenson
2005 James J. Padilla
2006 Yoram Koren
2007 Takeo Nakagawa
2008 James B. Bryan
2009 Patrick A. McKeown
2010 Gary L. Cowger
2011 Ranga Komanduri
2012 Chul B. Park
2013 Bryan G. Dods
2014 Dean L. Bartles
2015 David Dornfeld
2016 Jyotirmoy Mazumder
2017 Michael F. Molnar
2018 Kamlakar Rajurkar
2019 Sujeet Chand

MACHINE DESIGN AWARD

The Machine Design Award recognizes eminent achievement of distinguished service in the field of machine design, which is considered to include application, research, development, or teaching of machine design.

In 1958, the Machine Design Division (now Design Engineering Division) established the award.

MACHINE DESIGN AWARD RECIPIENTS

1959 Charles E. Crede
1960 Rudolph E. Peterson
1961 Robert G. LeTourneau
1962 J.F. Downie Smith
1963 Colin Carmichael
1964 Rufus Oldenburger
1965 Arthur M. Wahl
1966 Beno Sternlicht
1967 Ernest Wildhaber
1968 C. Walton Musser
1969 Eugene L. Radzimovsky
1970 Reynold B. Johnson
1971 Walter L. Starkey
1972 Ferdinand Freudenstein
1974 Allen S. Hall, Jr.
1975 George N. Sandor
1976 Charles W. Radcliffe
1977 Mathew M. Kuts
1978 Ali A. Seireg
1979 Robert R. Slaymaker
1980 Merhyle F. Spotts
1981 Henry O. Fuchs
1982 Delbert Tesar
1983 Edward J. Wellauer
1984 Bernard Roth
1985 Joseph E. Shigley
1986 Atmaram H. Soni
1987 Gerard G. Lowen
1988 Hamilton H. Mabie
1989 Arthur G. Erdman
1990 Charles R. Mischke
1991 F.R. Erskine Crossley
1992 Edward J. Haug, Jr.
1993 Charles O. Smith
1994 Kenneth J. Waldron
1995 Ray C. Johnson
1996 Hans A. Eschenauer
1997 Jack A. Collins
1999 Panos Y. Papalambros
2000 Joseph Duffy
2001 Steven Dubowsky
2002 Robert L. Norton
2003 Richard F. Salant
2004 Sridhar Kota
2005 Bahram Ravani
2006 Itzhak Green
2007 Steven A. Velinsky
2008 Alexander H. Slocum
2009 J. Michael McCarthy
2010 Jahangir S. Rastegar
2013 Clément Gosselin
2014 Larry L. Howell
2015 Jorge Angeles
2016 Sunil K. Agrawal
2017 S.V. Sreenivasan
2018 John J. Uicker Jr.
2019 Gregory S Chirikjian

MARSHALL B. PETERSON AWARD

The Marshall P. Peterson Award is given in recognition of an early-career achievement and promise for pursuit of research in tribology. At the time the award is given (October of even-numbered years), the nominee's age shall be less than 30 years. Selection will be made based on early achievement in research as demonstrated by papers published in scientific journals of ASME (e.g., *Journal of Manufacturing Science and Engineering*), potential for excellence in pursuit of research, and relevance of the research to the subject of this award, i.e., material aspects of tribology.

The Research Committee on Tribology and the Tribology Division established this award in 1997 to encourage young engineers to pursue research related to tribology. The award shall be presented at the following ASME Congress.

MARSHALL B. PETERSON AWARD RECIPIENTS

1998 Wallace G. Sawyer
2000 Mathew P. Szolwinski
2002 Jiaxin Zhao
2004 Deborah A. Wilde
2006 Nicolas Fillot
2008 David L. Burris
2010 Andrew R. Konicek
2012 Melih Eriten
2014 Brandon Krick
2016 Harmandeep S. Khare

MAYO D. HERSEY AWARD

The Mayo D. Hersey Award is bestowed on an individual in recognition of distinguished and continued contributions over a substantial period of time to the advancement of lubrication science and engineering. Distinguished contributions may result from significant original research in one or more of the many scientific disciplines related to lubrication, from excellence and creativity in lubrication engineering practice, or from sustained and forthright efforts and dissemination of information on the theory and practice of lubrication.

The recipient need not hold membership in ASME.

To recognize the splendid leadership in lubrication science and engineering of Mayo D. Hersey, this award was established in 1965 by the joint bequest of the ASME Lubrication Division (now Tribology Division) and the ASME Research Committee on Lubrication (now Research Committee on Tribology).

MAYO D. HERSEY AWARD RECIPIENTS

1965 Mayo D. Hersey
1966 Harmen Blok
1967 Milton C. Shaw
1968 Ragnar Holm
1969 William A. Zisman
1970 Merrell R. Fenske
1971 Dudley D. Fuller
1972 Sydney J. Needs
1973 Donald F. Wilcock
1974 David Tabor
1975 Arthur F. Underwood
1976 John Boyd
1977 Robert L. Johnson
1978 Edward A. Saibel
1979 Duncan Dowson
1980 Nicolae Tipei
1981 Edmond E. Bisson
1982 E. Erwin Klaus
1983 Donald F. Hays
1984 Frederick F. Ling
1985 Ernest Rabinowicz
1986 Ward O. Winer
1987 Marshall B. Peterson
1988 Donald G. Flom
1989 John F. Archard
1990 Herbert S. Cheng
1991 Kenneth L. Johnson
1992 Maurice Godet
1993 Alistair Cameron
1994 Harold G. Elrod, Jr.
1995 Kenneth C. Ludema
1996 James A. Greenwood
1997 Albert A. Raimondi
1998 Jean Marie Georges
1999 David B. Bogy
2000 Bernard J. Hamrock
2001 Said Jahanmir
2002 Michael N. Gardos
2003 Jean B. M. Frene
2004 Hugh A. Spikes
2005 Andrew Jackson
2006 Koji Kato
2007 Hooshang Heshmat
2008 Leon M. Keer
2009 Richard F. Salant
2010 Frank E. Talke
2011 Farshid Sadeghi
2012 Francis E. Kennedy, Jr.
2013 Michael M. Khonsari
2014 John A. Tichy
2015 Ali Erdemir
2016 Izhak Etsion
2017 James R. Barber
2018 Andreas A. Polycarpou
2019 Lavern D. Wedeven

MCDONALD MENTORING AWARD

The ASME McDonald Mentoring Award established in 2007 recognizes the outstanding mentoring of other professionals by an engineer in industry, government, education, or private practice. The ASME McDonald Mentoring Award is an international award in that most recipients will be individuals residing outside the United States.

Candidates for this award must have attained, as a minimum, a record of outstanding performance in the following areas:

1. Contribute significantly to the engineering community. Served as an effective advocate and guide and exhibited true concern for mentees;
2. Demonstrate a portion of their mentoring or advising activities within the past five years;
3. Demonstrate the impact of practices, processes and programs established by the nominee;
4. Must be a member of ASME, or another ICOMES member society, for at least five years, as well as when receiving the award;
5. Have a baccalaureate or equivalent degree in a recognized field of engineering or engineering science, but not necessary in mechanical engineering.

MCDONALD MENTORING AWARD RECIPIENTS

2010 Dario Solis
2011 Robert Birkmyre
2012 Timothy S. Fisher
2013 Abel Hernandez-Guerrero
2014 Nael Barakat
2015 Carlos L. Lasarte V
2016 Luciano Castillo
2018 Robert M. Wagner
2019 Naomi C. Chesler

MELVIN R. GREEN CODES & STANDARDS MEDAL

The Melvin R. Green Codes and Standards Medal is bestowed in recognition of outstanding contributions to the development of documents, objects, or devices used in any part of the national or international ASME programs of technical codification, standardization, and certification.

The award shall be made to an individual (or individuals, in exceptional circumstances) who has served on ASME Committees or American National Standards Committees or International Standards Technical Advisory Groups administered by ASME. An individual need not be an ASME member to qualify. The award was established by the Society in 1976.

In 1996, to honor his memory and extraordinary contributions to ASME's Codes and Standards program, the Board of Governors renamed the award the "Melvin R. Green Codes and Standards Medal".

MELVIN R. GREEN CODES & STANDARDS MEDALISTS

1977 William G. McLean
1978 Leonard P. Zick
1979 Joseph F. Sebald
1980 George F. Habach
1981 Roy P. Trowbridge
1982 James W. Murdock
1983 Walter L. Harding
1984 Melvin R. Green
1985 Paul M. Brister
1986 William E. Cooper
1987 Jack B. Levy
1988 John H. Fernandes
1989 Howard F. Dobel
1990 Robert J. Bosnak
1991 Arthur R. Machell, Jr.
1992 Walter R. Mikesell, Jr.
1993 Wendell P. Johnson
1994 Oscar J. Fisher
1995 James R. Farr
1996 Guy A. Arlotto
1997 Spencer H. Bush
1998 Robert L. Dick
1999 Domenic A. Canonico
2000 Richard E. Feigel
2001 Lawrence J. Chockie
2002 Donald R. Frikken
2003 James A. Perry
2004 Edward A. Donoghue
2005 James H. Turner, Jr.
2006 J. Robert Sims, Jr.
2007 Guido G. Karcher
2008 Kenneth R. Balkey
2009 Louis E. Hayden, Jr
2010 June Ling
2011 Thomas P. Pastor
2012 Mohinder L. Nayyar
2013 Sidney A. Bernsen
2014 James W. Coaker
2015 James A. Thomas
2016 Bernard E. Hrubala
2017 Paul D. Edwards
2018 Richard William Barnes
2019 Michael Merker

MILTON C. SHAW MANUFACTURING RESEARCH MEDAL

The Milton C. Shaw Manufacturing Research Medal recognizes significant fundamental contributions to the science and technology of manufacturing processes.

The award was established in 2009 to honor Milton C. Shaw for being one of the most distinguished and influential researchers and educators in the 20th century in the field of manufacturing engineering, not only in the United States but internationally.

MILTON C. SHAW MANUFACTURING RESEARCH MEDALISTS

2011 Tetsutaro Hosni
2012 Kornel F. Ehmann
2013 I.S. Jawahir
2014 Albert Shih
2015 Y. Lawrence Yao
2016 Steven Y. Liang
2017 Shaochen Chen
2018 Ming C. Leu
2019 Srinivasan Chandrasekar

NADAI MEDAL

The Nadai Medal recognizes distinctive contributions to the field of engineering materials.

The Nadai Medal was established in 1975 on the proposal of the Materials Division to honor Arpad L. Nadai, who was a pioneer in the field of engineering materials, contributing particularly to the area of plasticity.

His perspective also enabled him to give strong impetus to development in fatigue and high temperature behavior.

NADAI MEDALISTS

1975 George M. Sinclair
1976 Evan Albert Davis
1977 George R. Irwin
1978 Frank A. McClintock
1979 Louis F. Coffin, Jr.
1980 Michael J. Manjoine
1981 S. Stanford Manson
1982 Iain Finnie
1983 Arthur J. McEvily, Jr.
1984 Thomas J. Dolan
1985 Sumio Yukawa
1986 William F. Brown, Jr.
1987 Erhard Krempl
1988 Herbert T. Corten
1990 Stephen D. Antolovich
1991 John W. Hutchinson
1992 George J. Dvorak
1993 William N. Sharpe, Jr.
1994 Owen Richmond
1995 Nicolaie D. Cristescu
1996 James R. Rice
1997 David L. McDowell
1998 Ali S. Argon
1999 John P. Hirth
2000 Frederick A. Leckie
2001 William D. Nix
2002 Sia Nemat-Nasser
2003 Anthony G. Evans
2004 Robert O. Ritchie
2005 Theodore Nicholas
2006 Richard M. Christensen
2007 Huseyin Sehitoglu
2008 Zděnek P. Bažant
2009 Lambert Ben Freund
2010 Albert S. Kobayashi
2011 Subra Suresh
2012 Satya N. Atluri
2013 Tsu-Wei Chou
2014 L. Catherine Brinson
2015 Huajian Gao
2016 Yonggang Huang
2017 John A. Rogers
2018 George M. Pharr
2019 Ellen M. Arruda

NANCY DELOYE FITZROY AND ROLAND V. FITZROY MEDAL

The Nancy DeLoye Fitzroy and Roland V. Fitzroy Medal, established in 2011, recognizes pioneering contributions to the frontiers of engineering leading to breakthrough(s) in existing technology or leading to new applications or new areas of engineering endeavor.

NANCY DELOYE FITZROY AND ROLAND V. FITZROY MEDALISTS

2012 Charles H. Townes
2013 Andrew J. Viterbi
2014 Xiang Zhang
2015 George W. Sutton
2016 Evangelos T. Laskaris
2018 Ivar Giaever

OLD GUARD EARLY CAREER AWARD

The Old Guard Early Career Award is aimed at furthering the goal of the Old Guard to help the young engineer bridge the gap between college and professional life. Its intent is to bring that individual closer to the activities of ASME by providing encouragement for graduating Student Members to upgrade to Member and actively become involved in the work of the Society. This award was established by the Old Guard Committee in 1994.

OLD GUARD EARLY CAREER AWARD RECIPIENTS

1995 Brian K. Miller
1996 Robert E. Lund
1997 Jeff A. Gessaman
1999 Connie J. Buynacek
2000 John T. Maine
2002 Susan M. Shumate
2003 Kenneth P. Horne
2004 Matthew L. Robinson
2005 Howard Berkof
2006 Catherine Q. Lengsfeld
2007 Candice A. Bauer
2008 Jennifer R. Jewers
2009 Kalan R. Guiley
2010 Aaron J. Ryan
2011 Julie A. Kulik
2012 Anita Rebarchak
2013 Jared B. Garrison
2014 Andres E. Rondon Marin
2015 Twishansh Mehta
2016 Nathaniel D. Taylor
2017 Caitlin Correll
2018 Michael P. Brundage
2019 Lee Clemon

OLD GUARD PRIZES FOR ASME STUDENT MEMBERS

The Old Guard is made up of ASME dues-exempt members, those who have reached the age of 65 and have retired. They continue to contribute to the Society and their contributions are used to support the Old Guard Prizes and similar Society activities related to the younger members.

The Prizes are awarded annually for the best four presentations of technical papers at the Society-wide contest during the ASME International Mechanical Engineering Congress. The contest is among the Student Members who won first prize at each Regional Student Conference. All contestants receive an expense-paid trip to the Congress.

The Prize was established in 1956 to recognize the overall winner. In 1981, it was expanded to include second- and third-place winners, and in 1992, a fourth-place winner was added.

OLD GUARD – 1st PRIZE RECIPIENTS

1956 Joseph W. Jacobson	University of Texas
1957 George M. Reynolds	Northwestern University
1958 Harry Hollinghaus	University of Utah
1959 James S. Kishi	University of Texas
1960 Joseph W. Lindsey	University of Utah
1961 Joseph J. Marino	University of Connecticut
1962 Jay S. Fein	Rutgers University
1963 Walter Clark Dean II	Lehigh University
1964 Robert J. Arnzen	Washington University/St. Louis
1965 Joseph P. Collins	University of Wisconsin
1966 John A. Leo III	Auburn University
1967 William E. Hughes	Brigham Young University
1968 Maurice H. Bunn	Arizona State University
1969 Walter H. Peters III	Auburn University
1970 Joseph R. Titone	Cornell University
1971 James L. Lee	Auburn University
1972 Stanley W. Blossom	Oklahoma State University
1973 Steven H. Blossom	Oklahoma State University
1974 Gary L. Smith	Oklahoma State University
1975 Steven R. Bussolari	Union College
1976 Paul E. Hollis	University of Washington
1977 Pauline B. Cramer	University of Washington
1978 Jan D. Dozier	Auburn University
1979 Joe D. Kececioglu	University of Arizona
1980 John J. Marsal	Tulane University
1981 Dan J. Schmitt	Oklahoma State University
1982 Gary F. St. Onge	Union College
1983 Jonathan R. Willey	San Diego State University
1984 Jeffrey McAllister	Brigham Young University
1985 Ed Rissberger	Columbia University
1986 Chris Della Corte	Case Western Reserve University
1987 Shannon S. Breon	Iowa State University
1988 John H. Barrett	Tufts University
1989 Michael B. Hogan	Auburn University
1990 Craig N. Gawreluk	Montana State University
1991 Karen S. Schlangen	University of Minnesota
1992 Kevin Naziri	California State Poly/Pomona
1993 Irene J. Beyerlein	Clemson University
1994 Jeffrey La Borde	Louisiana State University
1995 Kelly Habicht	San Diego State University
1996 Janea Stulp	Colorado State University
1997 Scott Wenger	Virginia Polytechnic Institute
1998 Victoria E. Wood	University of Tulsa
1999 D. Nathaniel Mulcahy	University of Mass. at Amherst
2000 Kristen Busko	Gonzaga University
2001 Daniel B. Vicario	Villanova University
2002 Jonathan A. Amory	Trinity College
2003 Jill C. Anderson	Boston University
2004 Sarah Plymale	LeTourneau University
2005 Sara Coulthard	United States Naval Academy
2006 Stephen Hart	Ohio State University
2007 Russell Aldridge	Brigham Young University
2008 Joy Davis	Wright State University
2009 Matthew Hollis	Cedarville University
2010 Maxim Budyansky	University of Connecticut
2011 Allison Johnson	University of Tulsa
2012 Brian Dutra	Western New England University
2013 Zachary Young	Cedarville University

OLD GUARD – 2nd PRIZE RECIPIENTS

1982 John I. Macy	University of Kansas
1983 Richard F. Beaufort	Brigham Young University
1984 John DiMarco	University of Dayton
1985 Michael T. Nelson	Clemson University
1986 Thomas Cavallaro	Clemson University
1987 Marc Richelsoph	Vanderbilt University
1988 Rocke R. Koreis	Seattle University
1989 James N. Cantrell	Utah State
1990 Moji I. Ijaz	Virginia Polytechnic Institute
1991 Alan K. Jones	Portland State University
1992 John Jraiche	University of Windsor
1993 Andrew M. Dudas	Bradley University
1994 Todd M Beller	Purdue University
1995 Allan D. Parks	University of Windsor
1996 Michael Ogg	Christian Brothers University
1997 David B. Lenhert	Wichita State University
1998 Jeremy C. Patterson	University of NC at Charlotte
1999 John M. R. Rask	Le Tourneau University
2000 Paul Hvass	Le Tourneau University
2001 Jared Fryar	University of Portland
2002 Marie K. Moran	University of Tulsa
2003 Smitesh Bakrania	Union College
2004 Brian Montague	Cedarville University
2005 Conall Dempsey	University of Illinois
2006 Matthew Teicholz	University of Connecticut
2007 Shannon Yee	The Ohio State University
2008 Jeff Lombardo	University of Connecticut
2009 Shiyu Liu	Nanyang Tech. Univ., Singapore
2010 Carol Regalbuto	University of Illinois
2011 Adam Kimberlin	Tennessee Technology University
2012 Pejmon Abrarpour	Texas Tech
2013 Jerry Wang	Yale University

OLD GUARD – 3rd PRIZE RECIPIENTS

1982 Douglas R. Watson	San Diego State University
1983 Joseph R. Olivier	Tulane University
1984 Daniel B. Grandmont	Western New England College
1985 Brian D. Berthold	University of New Mexico
1986 Daniel M. Browning	Oregon State University
1987 Michael L. Hoskins	California State University/Chico
1988 Margaret F. Pinnell	University of Dayton
1989 James L. Kahler	South Dakota State University
1990 Leland G. Hansen	Brigham Young University
1991 Craig J. Speier	University of California at Santa Barbara
1992 Jerry R. Volcy	New Jersey Institute of Technology
1993 Eric L. Callens	Louisiana Technical University
1994 Lee R. Johnson, Jr.	Union College
1995 Wendy B. Scheibout	Dordt College
1996 Darrin Noe	Seattle University
1997 Gretchen Voegler	Union College
1998 Julie A. Katz	Bradley University
1999 Kip Jensen	Brigham Young University
2000 John Milos	New Jersey Institute of Technology
2001 Andre McDonald	City College of New York
2002 Francis X. Murphy	US Military Academy
2003 Preston Pysh	US Military Academy
2004 Amber Raub Walker	US Military Academy
2005 Robert Graudins	Seattle University
2006 John Souza	University of NC, Charlotte
2007 Stephen T. Clark	Duke University
2008 Brian Wilks	Texas A&M University
2009 Alex Scott	Loughborough University, UK
2010 Caroline Scheck	University of Maryland
2011 Sirko Bartholomay	ISAE-Toulouse, France
2012 Alex Russomanno	University of Virginia
2013 Thomas Larson	University of Washington

OLD GUARD – 4th PRIZE RECIPIENTS

1992 Eric L. Callens	Louisiana Technical University
1993 Jason A. Pepin	University of Massachusetts
1994 David R. Smith, II	University of Utah
1995 Brian S. Mansure	University of Wyoming
1996 Jesse Adams	University of Nevada, Reno
1997 Michael Gray	California Polytechnic State University/San Louis Obispo
1998 Mark A. Kurfman	St. Louis University at Parks Coll.
1999 Paula Jean Runge	Mississippi State University
2000 Cory Cooper	US Air Force Academy
2001 Jonathan Slager	Torneau University
2002 David M. Chapin	Union College
2003 William Erwin	Vanderbilt University
2004 Lincoln Potwin	Wentworth University
2005 Thomas Barry	University of Hartford
2006 Matthew McCrink	Boise State University
2007 Andrew Gustafson	California State University
2008 Daniel Koch	University of Colorado-Denver
2009 Hunter McLelland	Tennessee Technological University
2010 Daniel Gerber	University of Alabama
2011 Alan Chatterton	University of Idaho
2012 Luke Fredette	Cedarville University
2013 Kristian Saull	Loughborough University

PATRICK J. HIGGINS AWARD

The Patrick J. Higgins Award was established in 2007 to recognize an individual who has contributed to the enhancement of standardization through contributions to the development and promotion of ASME Codes and Standards or Conformity Assessment Programs in the following areas: Plumbing Materials & Equipment; Screw Threads; Tools (machine, cutting and hand); Fasteners, (e.g., bolts, nuts, rivets, screws, washers); Chain, Attachments and Sprockets for Power Transmission & Conveying; Metal & Metal Alloy Wrought Mill Product Nominal Sizes; Pressure and Temperature Instruments & Accessories; Classification & Designation of Surface Qualities; Gage Blanks; Chemical Standard Pumps; Dimensional Metrology; Industrial System Energy Assessment; Overhead Hoists; Measurement of Fluid Flow in Closed Conduits; Reliability, Availability, and Maintainability of Power Plants; Steel Stacks; Verification and Validation in Computational Modeling and Simulation; and Engineering Drawing and Related Documentation Practices.

The award was established by the Board on Standardization & Testing to honor Patrick J. Higgins, who was the long standing Chairman of the A112 Committee on Plumbing Materials & Equipment and a member of the Board on Standardization.

PATRICK J. HIGGINS AWARD RECIPIENTS

2008 Morris Kimboff
2009 Jayaraman Raja
2010 Archie R. Anderson
2011 Sally A. Remedios
2012 Frederick G. Parsons
2013 Robert J. DeBoom
2014 Brian Parry
2015 Shabbir M. Rawalpindiwala
2016 Frank Bakos
2017 Thomas Charlton, Jr.
2018 Julius A. Ballanco
2019 Christopher J. Freitas

PER BRUEL GOLD MEDAL FOR NOISE CONTROL AND ACOUSTICS MEDAL

The Per Bruel Gold Medal for Noise Control and Acoustics is given in recognition of eminent achievement and extraordinary merit in the field of Noise Control and Acoustics. The achievement must include useful applications of the principles of noise control and acoustics to the art and science of mechanical engineering.

The medal was established in 1987 in recognition of Dr. Per Bruel, who pioneered the development of sophisticated noise and vibration measuring and processing equipment.

PER BRUEL GOLD MEDAL FOR NOISE CONTROL AND ACOUSTICS MEDALISTS

1989 K. Uno Ingard
1990 Lothar Cremer
1991 Alan Powell
1992 Miguel C. Junger
1993 David Crighton
1994 Eric E. Ungar
1995 Allan D. Pierce
1996 Maurice M. Sevik
1997 John E. F. Williams
2000 Michael S. Howe
2001 Gary H. Koopmann
2002 Ira Dyer
2003 David Feit
2004 Leo L. Beranek
2005 Adnan Akay
2006 Cyril M. Harris
2007 Jerry H. Ginsberg
2009 Earl G. Williams
2011 Mardi C. Hastings
2012 Theodore M. Farabee
2013 Richard H. Lyon
2014 Andrew N. Norris
2015 David T. Blackstock
2016 Patricia Davies
2017 Malcolm Crocker
2018 Sean F. Wu
2019 Karl Grosh

PERFORMANCE TEST CODES MEDAL

The Performance Test Codes Medal is to be awarded to an individual (or individuals, in exceptional circumstances) who has made outstanding contributions to the development and promotion of ASME Performance Test Codes, including the Supplements on Instruments and Apparatus.

The medal was established to recognize the first voluntary codes and standards activity in the Society and in the United States. Many of the Codes are recognized throughout the world for their excellence, providing industry and the engineering community with the technology that promotes the philosophy of accurate and reliable performance evaluation.

This is the first award to recognize meritorious service in the Performance Test Codes area of the Society. The award was established in 1981 by contributions to the Performance Test Codes of the Society.

PERFORMANCE TEST CODES MEDALISTS

1984 Kenneth C. Cotton
William G. McLean
1985 James W. Murdock
1986 John H. Fernandes
1987 P.H. “Pete” Knowlton, Jr.
1988 Charles B. Scharp
1989 Frederick H. Light
1990 Karl G. Grothues
1991 Robert Jorgensen
1992 Joseph S. Davis, Jr
1993 Philip M. Gerhart
1995 Silas L. Morse
1996 Ronald L. Bannister
1997 Norman R. Deming
1998 David R. Keyser
1999 Roy P. Allen
2000 John C. Westcott
2001 Ronald H. Dieck
2002 John M. Burns
2003 Jeffrey R. Friedman
2005 Samuel J. Korellis
2006 John W. Siegmund
2008 Joseph W. Mitlon
2009 Steven P. Nuspl
2010 Gordon J. Gerber
2011 W. Cary Campbell
2012 Paul G. Albert
2013 Patrick M. McHale
2014 W. Glenn Steele, Jr.
2015 Thomas C. Heil
2016 Matthew J. Dooley
2017 Thomas K. Kirkpatrick
2018 Michael P. McHale
2019 Steven A. Scavuzzo

PI TAU SIGMA AWARDS

In 1938, Pi Tau Sigma (Honorary Mechanical Engineering Fraternity) arranged with ASME for the joint award of the Pi Tau Sigma Gold Medal. This medal is awarded for outstanding achievement in mechanical engineering to an engineer within ten years after graduation from the regular engineering course or related field of a recognized college or university.

In 1944, the Charles Russ Richards Award was simtablished as a joint award of Pi Tau Sigma and ASME to recognize the outstanding achievement in mechanical engineering or related field by the engineering graduate within twenty to twenty-five years following graduation.

In 1973, Pi Tau Sigma and ASME entered into a new agreement which continued the existing awards and added the Gustus L. Larson Award to honor engineering graduates for outstanding achievement in mechanical engineering or related field between 10 and 20 years after graduation. Funding was provided from the ASME Ward S. and Editha Jacobs Fund.
The qualifications for the recipients of each of the three awards are identical, except for the period of recognized achievements. In each case, the recipient shall have received a baccalaureate degree from a regular engineering curriculum of a recognized college or university and shall have attained outstanding achievement within the period stated for each award. Achievement shall be all or in part in any field, including industrial, educational, political, research, civic, and artistic. The candidate's achievements will be examined for an application of basic engineering methods or principles.

The three awards are administered by a Joint Board of Award appointed by Pi Tau Sigma and ASME. The Chair is a Pi Tau Sigma appointee. The Board requests nominees from ASME Sections and others on forms it provides. The Board submits the names and records of the persons selected for the three awards to the ASME Committee on Honors for the formal choice of the recipients.

PI TAU SIGMA GOLD MEDAL

The Pi Tau Sigma Gold Medal recognizes outstanding achievement in mechanical engineering within ten years following graduation with a baccalaureate (bachelors) degree in Mechanical Engineering or related field. The award is bestowed for overall outstanding achievement in the mechanical engineering field during the set period of time.

The medal was established by Pi Tau Sigma in 1938 in coordination with ASME.

PI TAU SIGMA GOLD MEDALISTS

1938 Wilfred E. Johnson
1939 John Yellot, Jr.
1940 George A. Hawkins
1941 R. Hosmer Norris
1942 John T. Rettaliata
1943-46 No award due to war
1947 David Cochrane
1948 Walter G. Vincenti
1949 Philip S. Myers
1950 Arthur P. Adamson
1951 Warren M. Rohsenow
1952 Robert L. O'Brien
1953 Merle Baker
1954 Emmett E. Day
1955 Robert C. Dean, Jr
1956 John A. Clark
1957 Patrick McDonald, Jr.
1958 Allison E. Simons
1959 Donald F. Hays
1960 George Hatsopoulos
1961 Ernest T. Selig
1962 E. Bruce Lee
1963 Herbert Richardson
1964 Richard L. Peskin
1965 John Bollinger
1966 Jason R. Lemon
1967 William O'Donnell
1968 Randall F. Barron
1969 Henry K. Newhall
1970 Richard E. Barrett
1971 James R. Rice
1972 John F. Stephens III
1973 Christian E.G. Przirembel
1974 Jace W Nunziato
1975 Ted B. Belytschko
1976 John S. Walker
1977 Richard E. Lovejoy
1978 David A. Peters
1980 Doyle D. Knight
1982 Pol D. Spanos
1984 Michael R. Muller
1985 Wing Kam Liu
1986 Dimos Poulikakos
1987 David L. McDowell
1988 Mark F. Hamilton
1989 Steven M. Wilson
1990 Dionissios N. Assanis
1991 Yves H. Berthelot
1993 Melany L. Hunt
1994 Zhigang Suo
1995 Thomas R. Kurfess
1996 Gregory S. Chirikjian
1998 Wei Chen
1999 Margaret S. Wooldridge
2000 Connie J. Buynacek
2002 Assimina A. Pelegri
2003 Bogdan I. Epureanu
2004 Kenneth A. Gall
2006 Nicholas Fang
2009 A. John Hart
2010 David L. Burris
2011 David Saintillan
2012 Amos Winter
2013 Randy Ewoldt
2014 Ibrahim T. Ozbolat
2015 Neil P Dasgupta
2016 David Henann
2017 Shannon K. Yee
2018 Nenad Miljkovic
2019 Jesse Capecelatro

R. TOM SAWYER AWARD

The R. Tom Sawyer Award is bestowed on an individual who has made important contributions to advance the purpose of the Gas Turbine Industry and to the International Gas Turbine Institute over a substantial period of time. The contribution may be in any area of institute activity but must be marked by sustained forthright efforts.

The award was established in 1972 to honor R. Tom Sawyer who, for over four decades, toiled zealously to advance gas turbine technology in all of its aspects.

R. TOM SAWYER AWARD RECIPIENTS

1972 R. Tom Sawyer
1973 John W. Sawyer
1974 Waheeb Rizk
1975 Bruce O. Buckland
1976 Curt Keller
1977 Alexander L. London
1978 Sir Frank Whittle
1979 Sam B. Williams
1980 Ralph L. Boyer
1981 Thomas E. Stott, Jr.
1982 R. Noel Penny
1983 Sven-Olof Kronogard
1984 Arthur H. Lefebvre
1985 Anselm Franz
1986 Elvie L. Smith
1987 Leroy H. Smith, Jr.
1988 Bernard L. Koff
1989 Edward S. Wright
1990 Hans J.P. von Ohain
1991 Gerhard Neumann
1992 William R. Hawthorne
1993 Arthur J. Wennerstrom
1994 Brian H. Rowe
1995 Geoffrey L. Wilde
1996 Donald D. Hill
1997 Sir John H. Horlock
1998 Donald W. Bahr
1999 Donald E. Bently
2000 Martin C. Hemsworth
2001 Max Bentele
2002 Philip C. Ruffles
2003 Sigmar Wittig
2004 Herb I. H. Saravanamuttoo
2005 Edward M. Greitzer
2006 Erio Benvenuti
2007 John Douglas Denton
2008 Theodore H. Okiishi
2009 Michael G. Dunn
2010 Herbert Jericha
2011 Dilip R. Ballal
2012 David C. Wisler
2013 Anthony J. Strazisar
2014 Reza S. Abhari
2015 Lee S. Langston
2016 Nicholas Cumpsty
2017 Alan H. Epstein
2018 Aspi R. Wadia
2019 Om P. Sharma

RALPH COATS ROE MEDAL

In 1972, the Society established the Ralph Coats Roe Medal to be presented annually, if warranted, to an individual selected by the Society for a significant contribution to a better public understanding and appreciation of the engineer's worth to contemporary society. Candidates are not restricted by profession nor by membership in any engineering society or organization.

The successful candidate is expected to have the attributes that qualify him or her as an authoritative lecturer on his or her contribution at a general session during the International Mechanical Engineering Congress. Ralph Coats Roe was a pioneer and innovator in the design and construction of highly efficient power plants and advanced desalting processes. He was an inspiration to his colleagues by his great achievements through self-education in highly sophisticated technologies.

The medal was endowed by Burns and Roe, Inc., the corporation founded by Ralph Coats Roe.

RALPH COATS ROE MEDALISTS

1974 Emilio Q. Daddario
1975 Walter Sullivan
1977 Robert C. Seamans, Jr.
1978 David Perlman
1979 William D. Carey
1980 Melvin Kranzberg
1981 Carl Sagan
1982 Samuel C. Florman
1983 Tracy Kidder
1984 Lee Iacocca
1985 David Dooling, Jr.
1987 T. Lindsay Baker
1988 Cong. Donald L. Ritter
1989 John H. Lienhard
1990 Jeremy Bernstein
1991 Henry J. Petroski
1992 Frank Kreith
1993 Mary Lowe Good
1995 John Noble Wilford
1996 Norman R. Augustine
1997 Cong. George E. Brown, Jr.
1998 Paul B. MacCready
1999 Edward Wenk, Jr.
2000 Barry I. Hyman
2001 N. Jan Davis
2002 Dean Kamen
2003 Vernon J. Ehlers
2004 William A. Wulf
2005 Winfred Phillips
2006 Bernard Amadei
2007 Roop L. Mahajan
2008 Shirley Ann Jackson
2009 Bonnie J. Dunbar
2010 Charles M. Vest
2011 Ioannis N. Miaoulis
2012 William S. Nye
2013 G. Wayne Clough
2014 Adam J. Hart-Davis
2015 Freeman A. Hrabowski III
2016 James J. Duderstadt
2017 Adrian Bejan
2018 Gwynne Shotwell
2019 Charles F. Bolden

RICHARD J. GOLDSTEIN ENERGY LECTURE AWARD

The Richard J. Goldstein Energy Lecture Award, established in 2019, recognizes pioneering contributions to the frontiers of energy leading to a breakthrough(s) in existing technology, leading to new applications or new areas of engineering endeavor, or leading to policy initiatives.

The awardee will be invited to give a public lecture. The awardee chooses a topic of his/her choice. The topic of the lecture could include, but is not limited to, one or more of the following: overview of the global and regional energy scene, availability of energy resources, solar energy, wind and alternative energy systems, geothermal energy systems, energy policy, heat transfer in energy systems, nuclear power plants, energy conversion, energy storage, and basic engineering thermal science related to energy conversion and energy use in applications.

RICHARD J. GOLDSTEIN ENERGY LECTURE AWARD RECIPIENTS

2019 Steven Chu

ROBERT E. KOSKI MEDAL

The Robert E. Koski Medal, established in 2007, recognizes individuals who have advanced the art and practice of fluid power motion and control through education and/or innovation. The honoree does not have to be a U.S. citizen or a member of ASME.

The Medal was established by the Fluid Power Systems and Technology Division to honor Robert E. Koski's contributions to the field of Design Engineering and Dynamic and Systems and Control.

ROBERT E. KOSKI MEDALISTS

2007 Wolfgang Backe
2008 Clifford R. Burrows
2009 Jan Ove Palmberg
2010 Yongxiang Lu
2011 Richard T. Burton
2012 Siegfried Helduser
2013 Wayne J. Book
2014 Hubertus J. Murrenhoff
2015 Monika Ivantysynova
2016 Kim A. Stelson
2017 Werner Dieter
2018 Luca G. Zarotti
2019 Peter A.J. Achten

ROBERT HENRY THURSTON LECTURE AWARD

The Robert Henry Thurston Lecture Award was established in 1925 in honor of Robert Henry Thurston, first president of ASME and a farseeing leader in science and engineering. The Robert Henry Thurston Lecture Award, presented annually at the International Mechanical Engineering Congress, provides an outstanding leader in pure or applied science or engineering with the honor of presenting to the Society a lecture that encourages stimulating thinking on a subject of broad technical interest to engineers. The Robert Henry Thurston Lecture Award was elevated to a Society-level award in 2000.

ROBERT HENRY THURSTON LECTURE AWARD RECIPIENTS

2001 John W. Hutchinson
2002 Elias P. Gyftopoulos
2003 Yogesh Jaluria
2004 Bharat Bhushan
2005 Savio L-Y. Woo
2006 Sia Nemat-Nasser
2007 Wing Kam Liu
2008 Vijay K. Dhir
2009 Huajian Gao
2010 Ares J. Rosakis
2011 Francis C. Moon, Jr.
2012 Zhigang Suo
2013 John A. Rogers
2014 Ken P. Chong
2015 Horacio D. Espinosa
2016 Romesh C. Batra
2017 Mohammed A. Zikry
2018 Guruswami Ravichandran
2019 Yonggang Huang

ROBERT HENRY THURSTON LECTURE AWARD RECIPIENTS (DIVISIONAL LEVEL)

1969 Jacob Ackeret
1970 Jacob P. Den Hartog
1971 Milton C. Shaw
1972 George F.Carrier
1973 Henry M. Paynter
1974 Robert W. Emmons
1975 Myron Tribus
1976 Chauncey Starr
1977 Robert C. Dean, Jr.
1978 Allen F. Rhodes
1979 W. Dale Compton
1980 Milton S. Plesset
1981 John Erik Jonsson
1982 Hans M. Mark
1983 Ernst R.G. Eckert
1984 Robert A. Frosch
1985 Yuan-Cheng B. Fung
1986 Daniel C. Drucker
1987 Simon Ostrach
1988 Stephen H. Crandal.
1989 Stephen J. Kline
1990 Jack S. Kilby
1991 Frank Kreith
1992 John H. Lienhard
1993 Chang-Lin Tien
1994 Robert M. Nerem
1995 Paul Cooper
1996 Don P. Giddens
1997 Raymond Viskanta
1998 Van C. Mow
1999 Adrian Bejan
2000 Duncan Dawson

ROBERT M. NEREM MEDAL

The Robert M. Nerem Medal is awarded to an individual for extraordinary and sustained level of lifetime achievement in the field of bioengineering education and mentoring.

Examples of meritorious activity include leadership within the nominee's institution, mentoring activities that are above and beyond those expected from others employed in similar positions, mentoring activities tailored to meet the needs of the trainees, innovative mentoring activities, and quantitative information regarding the trainees' demographics, current positions (if known), and a brief summary of their most significant accomplishments.

The medal was established in 2017 by Bioengineering Division.

ROBERT M. NEREM MEDALISTS

2018 Roger D. Kamm
2019 Kenneth R. Diller

RUFUS OLDENBURGER MEDAL

The Rufus Oldenburger Medal is awarded in recognition of significant contributions and outstanding achievements in the field of automatic control. Examples of such achievements may be in the areas of education, research, development, innovation, and service to the field and profession. Nominations are not restricted by profession, nationality, or Society membership.

The award was established in 1968 by the Automatic Control Division (now the Dynamic Systems and Control Division) to honor Rufus Oldenburger for his distinctive achievements in the field and for his service to the Society and the Division.

RUFUS OLDENBURGER MEDALISTS

1968 Rufus Oldenburger
1969 Nathaniel B. Nichols
1970 John R. Ragazzini
1971 Charles Stark Draper
1972 Albert J. Williams, Jr.
1973 Clesson E. Mason
1974 Herbert W. Ziebolz
1975 Hendrik W. Bode
Harry Nyquist
1976 Rudolf Emil Kalman
1977 Gordon S. Brown
Harold L. Hazen
1978 Yasundo Takahashi
1979 Henry M. Paynter
1980 Arthur E. Bryson, Jr.
1981 Shih-Ying Lee
1982 Bernard Friedland
1983 J. Lowen Shearer
1984 Herbert H. Richardson
1985 Karl J. Astrom
1986 Eliahu I. Jury
1987 Walter R. Evans
1988 Robert H. Cannon, Jr.
1989 Jaakov Z. Tsypkin
1990 Harold Chestnut
1991 John G. Truxal
1992 Issac M. Horowitz
1993 Lotfi A. Zadeh
1994 Howard H. Rosenbrock
1995 George Leitmann
1997 Thomas B. Sheridan
1996 George D. Zames
1998 David G. Luenberger
1999 Yu-Chi Ho
2000 Ioan D. Landau
2002 Masayoshi Tomizuka
2003 Vadim Utkin
2004 Alistair MacFarlane
2005 Roger W. Brockett
2006 J. Karl Hedrick
2007 Suguru Arimoto
2008 A. Galip Ulsoy
2009 Neville J. Hogan
2010 Rolf Isermann
2011 Haruhiko H. Asada
2012 Mathukumalli Vidyasagar
2013 Graham C. Goodwin
2014 Robert R. Bitmead
2015 Manfred Morari
2016 Jean-Jacques Slotine
2017 Miroslav Krstic
2018 Roberto Horowitz
2019 Huei Peng

RUTH AND JOEL SPIRA OUTSTANDING DESIGN EDUCATOR AWARD

The Ruth and Joel Spira Outstanding Design Educator Award was established as a division award in 1998. The Award was elevated to a Society award in 2001 to recognize a person who exemplifies the best in furthering engineering design education through vision, interactions with students and industry, scholarship and impact on the next generation of engineers, and a person whose action serves as a role model for other educators to emulate.

RUTH AND JOEL SPIRA OUTSTANDING DESIGN EDUCATOR AWARD RECIPIENTS

2001 Ken Wallace
2002 Kenneth K. Waldron
2003 Woodie C. Flowers
2004 Clive L. Dym
2005 Gary L. Kinzel
2006 John S. Lamancusa
2007 Panos Y. Papalambros
2008 Kosuke Ishii
2010 Sridhar Kota
2011 Farrokh Mistree
2012 David R. Wallace
2013 Douglass J. Wilde
2014 Kevin Craig
2015 Alice M. Agogino
2016 Kathryn W. Jablokow
2017 Gül E. Okudan Kremer
2018 Alexander H. Slocum
2019 Janet K. Allen

S.Y. ZAMRIK PVP MEDAL

The S.Y. Zamrik Pressure Vessels and Piping Medal is bestowed for outstanding contributions in the field of pressure vessels and piping technology including, but not limited to, research, development, teaching, and significant advancements of the state-of-the-art.

The award was established in 1980 by the Pressure Vessels and Piping Division and renamed the S.Y. Zamrik PVP Medal in 2010.

S.Y. ZAMRIK PVP MEDALISTS

1980 Dana Young
1981 Gunther P. Eschenbrenner
1982 Irwin Berman
1983 William E. Cooper
1984 Adolph O. Schaefer
1985 John F. Harvey
1986 Everett C. Rodabaugh
1987 David H. Pai
1988 Michael J. Manjoine
1989 Pedro V. Marcal
1990 Robert J. Cepluch
1991 James R. Farr
1992 Donald S. Griffin
1993 Jeffrey T. Fong
1994 William J. O'Donnell
1995 G.E. Otto Widera
1996 Sam Y. Zamrik
1997 Robert W. Swindeman
1998 Sumio Yukawa
2000 Rudolph J. Scavuzzo
2001 Shoei-Sheng Chen
2002 Alexander H. Marr
2003 Fumio Hara
2004 Greg L. Hollinger
2005 Richard C. Gwaltney
2006 Michel J. Pettigrew
2007 Carl E. Jaske
2008 Arturs Kalnins
2009 Charles Becht IV
2010 Toshiyuki Sawa
2011 William T. Springer
2012 M.K. Au-Yang
2013 William J. Bees
2014 Arthur G. Ware
2015 L. Ike Ezekoye
2016 Artin Dermenjian
2017 Mahendra D. Rana
2018 Mordechai Perl
2019 Young W. Kwon

SAFETY CODES AND STANDARDS MEDAL

The Safety Codes and Standards Medal is presented to one or more individuals who have contributed to the enhancement of public safety through the development and promotion of ASME codes and standards or the ASME safety accreditation activity.

The medal was established in 1986 by the Council on Codes and Standards.

SAFETY CODES AND STANDARDS MEDALISTS

1987 Howard F. Silfin
1988 Oscar J. Fisher
1989 William J. Stuber
1990 Oswald S. Carliss
1991 Clyde A. Cobb
1992 Edward A. Donoghue
1993 Robert L. Seymour
1994 James D. Schell
1995 Zack R. McCain
1996 Robert R. Reisinger
1997 George W. Gibson
1998 George R. Strakosch
2000 William H. Axtman
2001 Andrew R. Toth
2002 Paul S. Zorich
2003 Albert J. Saxer
2004 Robert N. Rogers
2005 David L. Steel
2006 Herschell E. Godwin, Jr.
2007 Norman C. Hargreaves
2008 Louis Bialy
2009 Michael C. Polagye
2010 James W. Coaker
2011 Daniel N. Wolff
2012 David Duerr
2013 Andrew P. Juhasz
2014 Robert Bolen
2015 Bradley D. Closson
2016 Michael Mills
2017 David McColl
2018 James E. Richardson
2019 Martin P. Schroeder

SAVIO L-Y. WOO TRANSLATIONAL BIOMECHANICS MEDAL

The Savio L-Y. Woo Translational Biomechanics Medal is bestowed upon an individual who has translated meritorious bioengineering science to clinical practice through research, education, professional development, and with service to the bioengineering community. Examples of meritorious activity might be basic bioengineering science that translates into a medical device or equipment, contributes to new approaches of disease treatment, establishes new injury treatment modalities, etc.

The award was established in 2015 by the Bioengineering Division.

SAVIO L-Y. WOO TRANSLANTIONAL BIOMECHANICS MEDALISTS

2016 B. Barry Lieber
2017 Arthur Erdman
2018 Kyriacos A. Athanasiou
2019 Rita M. Patterson

SIA NEMAT-NASSER EARLY CAREER AWARD

The Sia Nemat-Nasser Early Career Award is given by the Materials Division of ASME in honor of Dr. Sia Nemat-Nasser to recognize early career research excellence in the areas of experimental, computational, and theoretical mechanics and materials by young investigators who are within 10 years after their Ph.D. degree, with special emphasis placed on under-represented groups.

SIA NEMAT-NASSER EARLY CAREER AWARD RECIPIENTS

2012 Harold S. Park
2013 Thao D. Nguyen
Ting Zhu
2014 Kevin T. Turner
2015 Yong Zhu
2016 Lijie G. Zhang
2017 Yashashree Kulkarni
2018 Tak-Sing Wong
Yihui Zhang
2019 Sinan Keten

SOICHRIO HONDA MEDAL

The Soichiro Honda Medal recognizes an individual for an outstanding achievement or a series of significant engineering contributions in developing improvements in the field of personal transportation.

Attention shall be concentrated on the brilliance of the achievement or on the overall effect of a series of contributions—not on the individual. The achievement should be of such public importance as to be worthy of the gratitude of the nation and to call forth the admiration of engineers.

No restrictions shall arise out of the nominee's age, nationality, society, membership, degree of education, employment, or official position.

As a result of a generous unrestricted donation to ASME by Honda Motor Company, Ltd., in 1980, the Society established the Soichiro Honda Medal in recognition of Mr. Honda's exemplary achievements in the field of personal transportation in 1982. This medal is the first to recognize achievements in this field.

SOICHRIO HONDA MEDALISTS

1984 John P. Stapp
1985 Shoichi Furuhama
1986 Lloyd L. Withrow
1987 Felix Wankel
1988 Arthur F. McLean
1989 Shunichi Ohigashi
1990 Charles M. Heinen
1991 Hans C. List
1992 Hiroyuki Hiroyasu
1993 Phillip S. Myers
1994 James Ellis Hall
1995 Joseph M. Juran
1996 Karl J. Springer
1997 Jack D. Benson
1999 John B. Heywood
2000 Franz F. Pischinger
2001 Robert C. Stempel
2002 John H. Johnson
2003 Robert F. Sawyer
2004 Rolf D. Reitz
2005 Barry J. Cooper
2006 David E. Foster
2007 Wallace R. Wade
2008 Robin Stuart Sharp
2009 David F. Merrion
2010 Thomas W. Asmus
2011 John J. Mooney
2012 Priyaranjan Prasad
2013 John C. Wall
2014 Thomas Morel
2015 Thomas D. Gillespie
2016 Bahram Khalighi
2017 John E. Dec
2018 Ashwani K. Gupta
2019 Masayoshi Tomizuka

SPIRIT OF ST. LOUIS MEDAL

The Spirit of St. Louis Medal is awarded for meritorious service in the advancement of aeronautics and astronautics. The award is not limited to members of ASME or the engineering profession.

The medal was established in 1929 by Philip D. Ball, ASME members, and Citizens of St. Louis, Missouri.

SPIRIT OF ST. LOUIS MEDALISTS

1929 Daniel Guggenheim
1932 Paul Litchfield
1935 Will Rogers (posthumously)
1938 James H. Doolittle
1941 John E. Younger
1944 George W. Lewis
1947 John E. Northrup
1950 Reinout P. Kroon
1954 Arthur E. Raymond
1955 Ralph S. Damon
1958 George S. Schairer
1961 Samuel K. Hoffman
1962 Robert H. Widmer
1963 Frederick C. Crawford
1964 Robert R. Gilruth
1965 William H. Pickering
1966 Christopher C. Kraft, Jr.
1967 Ira G. Hedrick
1968 George S. Moore
1969 G. Merritt Preston
1970 Clarence L. Johnson
1971 Ralph L. Creel
1972 Neil A. Armstrong
1973 John F. Yardley
1974 Abe Silverstein
1977 George D. McLean
1978 Paul B. MacCready
1979 Sir Freddie Laker
1980 Michael Collins
1981 Edgar M. Cortright, Jr 1982 Frank N. Piasecki
1984 Charles S. Draper
1985 Kurt H. Hohenemser
1983 John W. Young
1986 Bruce McCandless II
1987 Elbert L. Rutan
1988 Edward H. Heinemann
1990 Charles Feltz
1992 Holt Ashley
1993 Charles F. Tiffany
1994 Ben R. Rich
1995 Antony Jameson
1996 Robert G. Loewy
1997 John W. Lincoln
1998 Charles H. Kaman
2000 John C. Houbolt
2001 Sheila E. Widnall
2002 Thomas J. Kelly
2003 Peretz P. Friedmann
2005 Robert H. Liebeck
2007 Earl H. Dowell
2009 Paul Bevilaqua
2011 Abraham Karem
2012 William M. Shepherd
2013 David A. Peters
2015 Dewey H. Hodges
2016 Inderjit Chopra
2017 Charbel Farhat
2018 Stephen P. Engelstad
2019 Kevin G. Bowcutt

.

THOMAS A. EDISON PATENT AWARD

The Thomas A. Edison Patent Award was established in 1997 to recognize achievement in the form of a patented device or process which has the potential to significantly enhance some aspect of mechanical engineering. The award was funded through the efforts of the Board on Research and Technology Development.

To be eligible, the patent must have been registered in the United States and the device or process must have significant potential impact on some aspect of mechanical engineering. Although not a requirement of this award, it is preferable that the nominee(s) be a member(s) of ASME. The award shall be presented at the following ASME Congress.

THOMAS A. EDISON PATENT AWARD RECIPIENTS

2000 Herman H. Viegas
2001 Alexander M. Gorlov
2002 Hooshang Heshmat
2003 John N. Basic, Sr.
2004 Faydor L. Litvin
2005 Ching-Pang Lee
2006 Charles A. Garris
2007 Norman R. McCombs
2008 Kyriacos A. Athanasiou
2009 Alex J. Severinsky
2010 Jyotirmoy Mazumder
2012 Vipin Kumar
2013 Moshe Shoham
2015 Andy Walker

TIMOSHENKO MEDAL

The Timoshenko Medal is bestowed in recognition of distinguished contributions to applied mechanics, without restrictions to nationality or profession.

To honor Stephen P. Timoshenko and to commemorate his contribution to applied mechanics as author and teacher, the ASME Applied Mechanics Division established the medal in 1957.

TIMOSHENKO MEDALISTS

1957 Stephen P. Timoshenko
1958 Arpad L. Nadai
Sir Geoffrey Taylor
Theodore von Karman
1959 Sir Richard Southwell
1960 Cornelius B. Biezano
Richard Grammel
1961 James N. Goodier
1962 Maurice A. Biot
1963 Michael James Lighthill
1964 Raymond D. Mindlin
1965 Sydney Goldstein
1966 William Prager
1967 Hillel Poritsky
1968 Warner T. Koiter
1969 Jakob Ackeret
1970 James J. Stoker
1971 Howard W. Emmons
1972 Jacob P. Den Hartog
1973 Eric Reissner
1974 Albert E. Green
1975 Chia-Chiao Lin
1976 Erastus H. Lee
1977 John D. Eshelby
1978 George F. Carrier
1979 Jerald L. Ericksen
1980 Paul M. Naghdi
1981 John H. Argyris
1982 John W. Miles
1983 Daniel C. Drucker
1984 Joseph B. Keller
1985 Eli Sternberg
1986 George R. Irwin
1987 Ronald S. Rivlin
1988 George K. Batchelor
1989 Bernard Budiansky
1990 Stephen H. Crandall
1991 Yuan-Cheng B. Fung
1992 Jan D. Achenbach
1993 John L. Lumley
1994 James R. Rice
1995 Daniel D. Joseph
1996 J. Tinsley Oden
1997 John R. Willis
1998 Olgierd C. Zienkiewicz
1999 Anatol Roshko
2000 Rodney J. Clifton
2001 Ted Belytschko
2002 John W. Hutchinson
2003 Lambert B. Freund
2004 Morton E. Gurtin
2005 Grigory Isaakovich Barenblatt
2006 Kenneth L. Johnson
2007 Thomas J.R. Hughes
2008 Sia Nemat-Nasser
2009 Zdĕnek P. Bažant
2010 Wolfgang Knauss
2011 Alan Needleman
2012 Subra Suresh
2013 Richard M. Christensen
2014 Robert M. McMeeking
2015 Michael Ortiz
2016 Ray Ogden
2017 Viggo Tvergaard
2018 Ares J. Rosakis
2019 Junuthula N. Reddy

VAN C. MOW MEDAL

The Van C. Mow Medal is bestowed upon an individual who has demonstrated meritorious contributions to the field of bioengineering through research, education, professional development, leadership in the development of the profession, mentorship to young bioengineers, and service to the bioengineering community.

The individual must have earned a Ph.D. or equivalent degree between 10 and 20 years prior to June 1 of the year of the award.

The award was established by the Bioengineering Division in 2004.

VAN C. MOW MEDALISTS

2005 Kyriacos A. Athanasiou
2006 Robert L. Sah
2007 Lori A. Setton
2008 Scott L. Delp
2009 Michael S. Sacks
2010 Tony M. Keaveny
2011 David A. Vorp
2012 John Bischof
2013 Jeffrey A. Weiss
2014 Christopher R. Jacobs
2015 Dawn M. Elliott
2016 Beth A. Winkelstein
2017 Richard R. Neptune
2018 Jeffrey W. Holmes
2019 Tony Jun Huang

WARNER T. KOITER MEDAL

The Warner T. Koiter Medal, established in 1996, is bestowed in recognition of distinguished contributions to the field of solid mechanics with special emphasis on the effective blending of theoretical and applied elements of the discipline, and on a high degree of leadership in the international solid mechanics community.

The award was funded by the Technical University of Delft, Netherlands, to honor Warner T. Koiter for his foundational work in nonlinear stability of structures in the most general sense, for his diligence in the effective application of these theories, his international leadership in mechanics, and his effectiveness as a teacher and researcher.

WARNER T. KOITER MEDALISTS

1997 Warner T. Koiter
1998 Viggo Tvergaard
1999 Charles R. Steele
2000 Giulio Maier
2001 Wolfgang G. Knauss
2002 James K. Knowles
2003 David R.J. Owen
2004 Zenon Mroz
2005 Raymond W. Ogden
2006 Pierre Suquet
2007 Chin-Teh Sun
2008 Richard D. James
2009 Stelios Kyriakides
2010 Nicolas Triantafyllidis
2011 James G. Simmonds
2012 Erik Van der Giessen
2013 Norman A. Fleck
2014 Guruswami Ravichandran
2015 Kaushik Bhattacharya
2016 Pedro Ponte Castañeda
2017 Wei Yang
2018 Muhammed Taher A. Saif
2019 Kaliat T. Ramesh

WILFRED C. LA ROCHELLE CONFORMITY ASSESSMENT AWARD

The Wilfred C. LaRochelle Conformity Assessment Award recognizes distinguished service in the area of Conformity Assessment, including but not limited to, the establishment, advancement and promotion of ASME's Product & Personnel Certification and Accreditation Programs.

The award was established in 2017 in memory of Wilfred C. LaRochelle.

WILFRED C. LA ROCHELLE CONFORMITY ASSESSMENT AWARD RECIPIENTS

2018 Robert V. Wielgoszinski
2019 Edgar A. Whittle

WILLIAM T. ENNOR MANUFACTURING TECHNOLOGY AWARD

The William T. Ennor Manufacturing Technology Award is presented to an individual or team of individuals for developing or contributing significantly to an innovative manufacturing technology, the implementation of which has resulted in substantial economic and/or societal benefits.

The award was established by the Production Engineering Division (now the Manufacturing Engineering Division) in conjunction with the Alcoa Company in 1990.

WILLIAM T. ENNOR MANUFACTURING AWARD RECIPIENTS

1991 Kuo K. Wang
1992 Bei Tse Chao
Kenneth J. Trigger
1993 Nam P. Suh
1995 C. Kumar N. Patel
1996 Charles W. Hull
1997 J. "George" Tlusty
1998 Taylan Altan
1999 Yoram Koren
2000 Inyong Ham
2001 Robert J. Hocken
2002 Ranga Komanduri
2003 Richard E. Devor
Shiv G. Kapoor
2004 Stephen Malkin
2006 Jyotirmoy Mazumder
2008 Chunghorng R. Liu
2009 Jun Ni
2010 David A. Dornfeld
2011 S.V. Sreenivasan
2012 S. Jack Hu
2013 John W. Sutherland
2014 Placid M. Ferreira
2015 Elijah Kannatey-Asibu Jr.
2016 Yusuf Altintas
2018 Scott Smith
2019 Steven J. Skerlos

Y.C. FUNG YOUNG EARLY CAREER AWARD

The Y.C. Fung Early Career Award was established to recognize young investigators who are committed to pursuing research in the field of Bioengineering and have demonstrated significant potential to make substantial contributions to the field of Bioengineering. Such accomplishments may take the form of, but are not limited to, design or development of new methods, equipment or instrumentation in bioengineering; and research publications in peer-reviewed journals.

The award was established by the Bioengineering Division in 1985 and operated as a division award until 1998, when it was elevated to a Society-level award. It was renamed the Y.C. Fung Early Career Award in 2017.

Y.C. FUNG EARLY CAREER AWARD RECIPIENTS

1999 Rebecca Richards-Kortum
2000 Farshid Guilak
2001 David F. Meaney
2002 Jeffrey A. Weiss
2003 Sangeeta N. Bhatia
2004 Richard E. Debski
2005 Jeffrey W. Holmes
2006 Beth A. Winkelstein
2007 Stavros Thomopoulos
2008 Gabriel A. Silva
2009 Robert L. Mauck
2010 Matthew J. Gounis
2011 Ali Khademhosseini
2012 Marissa N. Rylander
2013 Jonathan P. Vande Geest
2014 W. David Merryman
2015 Adam J. Engler
2016 Triantafyllos Stylianopoulos
2017 Kristin M. Myers
2018 Spencer P. Lake
2019 Grace O'Connell

YERAM S. TOULOUKIAN AWARD

The Yeram S. Touloukian Award, established in 1997, is bestowed triennially to recognize outstanding technical contributions in the field of thermophysical properties. An individual who is internationally recognized for major contributions in the thermophysical properties field is eligible to receive this award. Fields recognized by the award include, but are not limited to, mechanical engineering, chemical engineering, physics and chemistry.

Funding to support the award was provided by Purdue University to honor the contributions of Yeram Touloukian.

YERAM S. TOULOUKIAN AWARD RECIPIENTS

2000 Akira Nagashima
2003 Raymond E. Taylor
Wolfgang Wagner
2006 Johanna Levelt Sengers
2009 Andreas Mandelis
Koichi Watanabe
2012 Michael R. Moldover
Peter T. Cummings
2015 Mikhail A. Anisimov
David G. Cahill
2018 Alfred Leipertz
Joern I. Siepmann

LITERATURE AWARDS

ARTHUR L. WILLISTON MEDAL

The Arthur L. Williston Medal is given for the best paper submitted in the annual competition on a subject chosen to challenge the engineering abilities of engineering students in conformance with the annual contest guidelines. A contestant must be an ASME Student Member or Member who received his or her baccalaureate degree not more than two years before the deadline date for submission of papers.

Arthur L. Williston, ASME Member, established the medal in 1954.

ARTHUR L. WILLISTON MEDALISTS – FIRST PLACE

1956 John A. Welsh
1957 Walter P. Logeman
1959 Rowe A. Girardini
1960 Marc Fishbein
1961 James R. Stewart
1962 Charles H. Recht
1964 Kenneth E. Gawronski
1965 LaRoux K. Gillespie
1966 Eddie R. Howe
1967 L. Thomas Cooper III
1968 Frank A. Ralbovsky
1969 Arlo Fossum
1970 Steven H. Carlson
1971 James A. Willms
1972 Dennis L. Sandberg
1973 Frank H. Roubleau, Jr
1974 James J. Callas
1976 Enud David Laska
1977 Harry W. Groot
1978 Jitendra S. Goela
1979 Steven E. Stephens
1980 Charles S. Macaulay
1982 John H. Pilarski
1983 Max R. Casada
1984 Eddie E. Ferrer
1985 Henry M. Quillian III
1986 Stephen J. Schoonmaker
1987 Thomas C. Davis
1988 Brian T. Reisenauer
1989 Christian L. Struble
1990 Robert J. Stehlik
1991 Matt Pruszynski
1992 Sean L. Neilson
1993 Neil G. Whitbeck
1994 Michael J. Zinngrabe
1995 Daniel A. Fletcher
1996 Jeffrey M. Otto
1997 Laura R. Foster
1998 Darrick A. Dean
1999 Matthew E. Myers
2001 Amip Shah
2002 Anne M. Hines
2003 David L. Damm
2004 Marie H. Hoffman
2005 Valerie Stringer
2006 Tyler E. Schnug
2007 Michael Steel
2008 Raymond M. Meyer
2009 Michael Simmons
2010 Andrew Neal Rister
2011 Prabal Goyal
2012 Kyle C. Picha
2013 Cassandra N. Hawley
2014 Mavila M. Miller
2015 Matthew D. Hill
2016 Leong Ka Long Karen
2017 Austin P. Kraus
2018 Noah M. Purdy

SECOND PLACE

1988 Michael E. Kennedy
1989 David A. Walker
1990 Randall W. Meinert
1991 Kenneth Skoug III
1992 Gilroy S. Ames
1993 Wade LaGrenade
1994 Jeffrey Craig Morris
1995 Connie J. Bleidorn
1996 Che J. Barnes
1997 Kenneth P. Horne
1998 Elizabeth M. Mastal
1999 Donna L. Hall
2001 David. L. Damm
2002 Andrew E. Karl
2003 Scott A. Fisher
2004 Paul F. Tatum
2005 John Q. Bolton
2006 Amanda M. Thomas
2007 Lori Michelle Neidig
2008 Walter S. Fredenhagen III
2009 Tessa Rae Nott
2010 Elizabeth Betterbed
2011 Nathaniel D. Taylor
2012 Daniel J. Hershman
2013 James P. Crawford
2014 Bernard K. Witschen
2015 Tara Larkin
2017 Joseph R.H. Schaadt

THIRD PLACE

1988 John Ellenz
1989 Deborah S. Schenberger
1990 John E. Davison
1991 Kathleen A. Conley
1992 Kingman Tang
1993 Daniel A. Fletcher
1994 John C. Schiffer
1995 Anthony T. Lomma
1996 Ookyong Kim
1997 Brian D. Myers
1998 Aaron Marsh
1999 Koh Boon Kiat
2001 Anne Hines
2003 Christopher L. Murphy
2004 Aashish Kalra
2006 Joy K. Adjorlolo
2007 Danielle Kimberly Williams
2008 Chris L. Cohoat
2009 Elizabeth Betterbed
2010 Andrew W. Corwell
2011 Jericho Paolo O. Rivera
2013 Lucas C. Poppe
2014 Uyanna Obinna
2015 Joseph R.H. Schaadt

BLACKALL MACHINE TOOL AND GAGE AWARD

The Blackall Machine Tool and Gage Award is given for the best current original paper or papers (not published elsewhere) which has/have been presented before ASME and/or published by ASME during the two calendar years immediately preceding the year of the award. The paper(s) should be clearly concerned with or related to the design or application of machine tools, gages, or dimensional measuring instruments. Papers by multiple authors are eligible.

Authors are not restricted by nationality, age, or society membership. The award shall be made annually, if warranted.

The award was established in 1954 by Frederick S. Blackall, Jr., Fellow and 72nd President of the Society.

BLACKALL MACHINE TOOL AND GAGE AWARD RECIPIENTS

1955 Carl J. Oxford, Jr.
John A. Cook
1956 Orlan W. Boston
William W. Gilbert
1957 Bei T. Chao
Kenneth J. Trigger
1958 S.A. Tobias
Wilfred Fishwick
1960 B. Popper
David W. Pessen
1961 Joseph R. Roubik
1962 W.A. Mohn
1963 E.G. Thomsen
A.G. MacDonald
1965 Robert S. Hahn
1967 J. Hopenfeld
R.R. Cole
1968 Kuo-King Wang
Shien-Ming Wu
Kazuaki Iwata
1971 William P. Koster
Louis J. Fritz
1974 S.P. Loutrel
N.H. Cook
1975 Sindre Holoyen
C. Dan Mote, Jr.
1980 Robert A. Thompson
Subbiah Ramalingam
John D. Watson
1981 Ranga Komanduri
Robert H. Brown
1982 Nam P. Suh
Bruce M. Kramer
1983 Richard E. DeVor
William A. Kline
Igbal A. Shareef
1984 Chunghorng R. Liu
Moshe M. Barash
1985 Paul K. Wright
1986 David A. Dornfeld
Elijah Kannatey-Asibu, Jr.
1988 Betzalel Avitzur
Rensen Wu
Samuel H. Talbert
Ye T. Chou
1989 Lucian Kops
M. Helmi Attia
1990 Jiri Tlusty
1991 Eiji Usui
Masami Masuko
Akihiko Hirota
Takahiro Shirakashi
Takeaki Kitagawa
1992 Guangming Zhang
Shiv G. Kapoor
1993 Changsheng Guo
Stephen Malkin
Fershid Engineer
1994 David A. Stephenson
1995 Jerzy Kozak
Kamlakar P. Rajurkar
Bin Wei
1996 William R.D. Wilson
Tse-Chi Hsu
Xiubao Huang
1997 William J. Endres
Richard E. Devor
Shiv G. Kapoor
1998 Shounak M. Athavale
John S. Strenkowski
1999 Jamal Sheikh-Ahmad
John A. Bailey
2000 Barney E. Klamecki
2001 Woncheol Choi
Thomas R. Kurfess
2002 Charalabos C. Doumanidis
Yong-Min Kwak
2003 Ihab Hanna
Scott A. Hucker
Robin Stevenson
Guoxian Xiao
2004 Jose M. Hurtado
Shreyes N. Melkote
2005 Yong Huang
Steven Y. Liang
2006 Y. Lawrence Yao
I. Cevdet Noyan
Wenwu Zhang
2007 Yung C. Shin
Yinggang Tian
2008 Andrew E. Honegger
Shiv G. Kapoor
Richard E. Devor
2009 Robert J. Hocken
Jimmie A. Miller
K. Scott Smith
Bethany A. Woody
2010 Dalong Gao
Ugur Ersoy
Robin Stevenson
Pei-Chung Wang
2011 O. Burak Ozdoganlar
Sinan Filiz
2012 Rui Zhou
Jian Cao
Kornel F. Ehmann
Chun Xu
2013 Yusuf Altintas
Caner Ekşioglu
Zekai M. Kilic
2014 Mingyang Li
Lie Tang
Robert G. Landers
Ming C. Leu
2017 Hai Trong Nguyen
Hui Wang
Bruce L. Tai
Jie Ren
S. Jack Hu
Albert J. Shih
2018 Sripati Sah
Numpon Mahayotsanun
Michael Peshkin
Jian Cao
Robert X. Gao
2019 Burak Sencer
Shingo Tajima

EDWARD F. OBERT AWARD

The Edward F. Obert Award is given for an outstanding paper on thermodynamics authored during the preceding two calendar years. The award shall be made for a paper presented at the Advanced Energy Systems Division's International Mechanical Engineering Congress symposium on energy systems analysis (so long as the symposium continues). The award shall be presented at the following ASME Congress.

The award was established in 1987 as a division award until 1995, when it was elevated to a Society award.

EDWARD F. OBERT AWARD RECIPIENTS

1997 Thomas P. Anderson
1998 Andrea Lazzaretto
George Tsatsaronis
1999 Masaru Ishida
Takahiro Suzuki
Masashi Yamamoto
2000 Anthony J. Bowman
Richard A. Gaggioli
David Paulus, Jr.
David H. Richardson
2001 Elias P. Gyftopoulos
2002 Cristian Carraretto
Alberto Mirandola
Anna Stoppato
2003 Luis M. Serra
Antonio Valero
Vittorio Verda
2004 Adrian Bejan
Sylvie Lorente
2007 Andrea Lazzaretto
Andrea Toffolo
2010 Noam Lior
Na Zhang
2012 Michael R. von Spakovsky
Charles E. Smith
2014 Ghassan J. Nicolas
Mohammad Janbozorgi
Hameed Metghalchi
2016 Sara Cosentino
Adriano Sciacovelli
Vittorio Verda
2017 Luca Rivadossi
Gian P. Beretta
2018 Andrea Toffolo
Andrea Lazzaretto
Sergio Rech
2019 John H. Lienhard V

FREEMAN SCHOLAR AWARD

A person of wide experience in fluids engineering is selected as the Freeman Scholar. He or she is expected to review a coherent topic in his or her specialty, including a comprehensive statement of the state-of-the-art and to suggest key future research needs. The results will be presented at the International Mechanical Engineering Congress and published in the ASME *Journal of Fluids Engineering*. The recipient may be from industry, government, education or private professional practice. He or she need not be an ASME member. The Freeman Scholar Program was supported by the ASME Freeman Fund in 1926 by John R. Freeman, noted Hydraulic Engineer and Scholar, Honorary Member, and 24th President of ASME. Mr. Freeman suggested a flexible program for utilization of the funds. In early years, it supplied fellowships for the study of hydraulic laboratory practice in Europe; later, it supported publication of important hydraulic research data and, more recently, it was granted to support research programs in hydraulics and fluid mechanics. The current Freeman Scholar Program in fluids engineering represents a timely usage of the Fund and is consistent with the intentions of the donor.

FREEMAN SCHOLAR AWARD RECIPIENTS

1971 Jack W. Hoyt
Ronald F. Probstein
1974 Jack E. Cermak
1976 William J. McCroskey
1978 Benjamin Gebhart
1980 Edward M. Greitzer
1982 Simon Ostrach
1984 A.K.M. Fazle Hussain
1986 John B. Heywood
1988 Turgut Sarpkaya
1990 Budugur Lakshminarayana
1992 William A. Sirignano
1994 David E. Stock
1996 Kirti N. Ghia
1998 Mohamed Gad-el-Hak
2000 Yogesh Jaluria
2002 Efstathios E. Michaelides
2004 Gary S. Settles
2006 Promode R. Bandyopadhyay
2008 William K. George
Joseph C. Klewicki
2010 Michael W. Reeks
2012 Pratap Vanka
2014 Steven L. Ceccio
2016 Goodarz Ahmadi
2017 S. Balachandar
2018 Ramesh K. Agarwal
2019 Upendra S. Rohatgi

GAS TURBINE AWARD

The Gas Turbine Award is given in recognition of an outstanding individual- or multiple-author contribution to the literature of combustion gas turbines or gas turbines thermally combined with nuclear or steam power plants. The paper may be devoted to design aspects or overall gas turbines or individual components and/or systems, such as compressors, combustion systems, turbines, controls and accessories, bearings, regenerators, inlet air filters, silencers, etc. It may cover topics specifically related to gas turbines, such as high temperature materials or fuel considerations, including erosion and corrosion complications. It can also be devoted to application or operational aspects of gas turbines for aircraft propulsion and ground power units, or automotive, electric utility, gas pipeline pumping, locomotive, marine, oil field pumping, petrochemical, space power, steel, and similar uses. Papers published anywhere in the world are eligible. Authors are not restricted by nationality, age, profession, or membership in any engineering society or other organization. The award is made annually, if warranted, at the Annual Conference of the International Gas Turbine Institute.

The Gas Turbine Division (now International Gas Turbine Institute) established the award in 1963.

GAS TURBINE AWARD RECIPIENTS

1964 Alexander L. London
1965 J.S. Alford
1966 Franklin O. Carta
1967 Arthur D. Bernstein
William H. Heiser
Charles M. Hevenor
1968 O.E. Balje
1969 Carlyle Reid
1970 J.L. Kerrebrock
Alojzy.A. Mikolajczak
1971 D. Marchant
Harold A. Harmon
Alojzy.A. Mikolajczak
1972 F.B. Metzger
D.B. Hanson
1973 John Moore
1974 G.L. Commerford
Lynn E. Snyder
1975 Edward M. Greitzer
1976 J.P. Gostelow
1977 Ivor J. Day
Nicholas A. Cumpsty
Edward M. Greitzer
1978 Frank J. Wiesner
1979 Arthur Schaffler
1980 Mark S. Darlow
Anthony J. Smalley
Alexander G. Parkinson
1981 G. Gordon Adkins, Jr.
Leroy H. Smith, Jr.
1982 K.V.L. Rao
Arthur H. Lefebvre
1983 Chunill Hah
1984 Howard P. Hodson
1985 Denis J. Doorley
Martin L.G. Oldfield
1986 Simon J. Gallimore
Nicholas A. Cumpsty
1987 Leroy H. Smith, Jr.
1988 Roger L. Davis
David E. Hobbs
Harris D. Weingold
1989 Joel H. Wagner
Bruce V. Johnson
Thomas J. Hajek
1990 James H. Leylek
David C. Wisler
1991 Ivor J. Day
1992 S.R. Manwaring
David C. Wisler
1993 Joel M. Haynes
Gavin J. Hendricks
Alan H. Epstein
1994 Edward M. Greitzer
Daniel L. Gysling
1995 Bruce P. Biederman
Craig J. Fischberg
Aaron J. Gleixner
Charles R. LeJambre
Chae M. Rhie
David A. Spear
Chad J. Yetka
Robert M. Zacharias
1996 Franz Joos
Philipp Brunner
Burkhard Schulte-Werning
Khawar Syed
Adnan Eroglu
1997 T.R. Camp
Ivor J. Day
1998 Robert E. Kielb
Josef Panovsky
1999 Robert C. Steele
Luke H. Cowell
Steven M. Cannon
Clifford E. Smith
2000 Thomas Sattelmayer
2001 Frank Hummel
2002 Ammar A. Al-Nahwi
Samir A. Nayfeh
James D. Paduano
2003 Lance L. Smith
Hasan Karim
Marco J. Castaldi
Shahrokh Etemad
William C. Pfefferle
Vivek K. Khanna
Kenneth O. Smith
2004 Ivor J. Day
Christopher Freeman
Thomas Scarinci
2005 Ivor J. Day
Christopher Freeman
John C. Williams
2006 Budimir Rosic
John Douglas Denton
2007 Timothy Rice
David Bell
Gurnam Singh
2008 Ronald S. Bunker
2009 Budimir Rosic
Eric M. Curtis
John D. Denton
John P. Longley
2010 Martin N. Goodhand
Robert J. Miller
2011 Christian Eichler
Georg Baumgartner
Thomas Sattelmayer
2012 Graham Pullan
Anna M. Young
Ivor J. Day
Edward M. Greitzer
Zoltan S. Spakovszky
2013 Harika S. Kahveci
Kevin R. Kirtley
2014 Robert P. Grewe
Robert J. Miller
Howard P. Hodson
2015 Ho-On To
Robert J. Miller
2017 Ho-On To
Robert J. Miller
2018 Svilen Savov
Nicholas Atkins
Sumiu Uchida
2019 Christoph Brandstetter
Heinz-Peter Schiffer
Maximilian Jüngst

HENRY HESS EARLY CAREER PUBLICATION AWARD

The Henry Hess Early Career Publication Award is given for an original technical paper presented to or accepted for publication by the Society at least two calendar years prior to the year of award by a Student Member or Member who was not yet 35 years of age at the time the paper was submitted to the Society. Joint authorship is permissible, provided all authors meet the requirements.

The paper shall be specifically recommended for the award by a review committee or qualified individual.

The award was established as the Junior Award in 1914 by Henry Hess, Member and Vice President of the Society. In 1964 and 2016, respectively, the name was changed to the Henry Hess Award and Henry Hess Early Career Publication Award.

HENRY HESS EARLY CAREER PUBLICATION AWARD RECIPIENTS

1915 Ernest Hickstein
1916 L.B. McMillan
1919 E.D. Whalen
1921 S. Logan Kerr
1922 R.H. Heilman
F.L. Kallam
1923 S.S. Sanford
S. Crocker
1924 R.H. Heilman
1925 Gilbert Schaller
1927 William M. Frame
1928 M.D. Aisenstein
1929 Arthur M. Wahl
1930 Ed S. Smith, Jr.
1931 Montrose Drewry
1932 Edmund M. Wagner
1933 Townsend Tinker
1934 John Yellott, Jr.
1935 Stanley Mikiwa
1936 H.F. Mullikin, Jr.
1937 Leslie J. Hooper
1938 Arthur C. Stern
1940 Robert E. Newton
1941 John Rettaliata
1942 Winston M. Dudley
1943 Troels Warming
1945 Bruce Del Mar
1946 Martin Goland
1947 Gilbert T. Rowe
1948 Hunt Davis
1949 Gerhard Nothmann
1951 John D. Stantz
1952 Warren Rohsenow
1955 F. Freudenstein
1959 Victor Salesmann
1960 Gunnar Heskestad
Duane Olberts
1961 J.E. Fleckenstein
1962 Miklos Sajben
1963 A. Thiruvengadam
1964 R.J. McGrattan
1965 J.F. Booker
1966 Jerry R. Johanson
1967 Richard E. Barrett
1969 James R. Rice
1970 T.L. Geers
1972 D.C. Gakenheimer
1973 Hazem A. Ezzat
Steve M. Rohde
1974 Lambert B. Freund
1976 G.D. Gupta
1977 Robert J. Hannemann
1978 Maria Comninou
1979 Krishna C. Gupta
1980 Bharat Bhushan
1984 Richard C. Benson
1986 Steven W. Shaw
1988 David L. McDowell
1990 Stephen E. Bechtel
1992 Jeffrey S. Marshall
1993 Mark T. Hanson
1995 J. Edward Colgate
2018 Mary H. Foltz
Craig C. Kage
Casey P. Johnson
Arin M. Ellingson
2019 Grace D. O'Connell
Benjamin Werbner
Minhao Zhou

MELVILLE MEDAL

The Melville Medal is the highest ASME honor for the best original paper (not published elsewhere) that has been published in the ASME Transactions during the two calendar years immediately preceding the year of the award. The paper may have more than one author, but one of the authors shall be an ASME corporate member (Fellow or Member). The paper shall be specifically recommended for the medal by a review committee or qualified individual.

The Melville Medal may also be awarded for a paper that has been selected for some other best paper award in the Society. Thus, papers selected for special awards (Blackall, Prime Movers, Gas Turbine, or Rail Transportation) or for best paper awards of professional Divisions, Sections, or other ASME bodies may be considered for the Melville Medal, if specifically recommended by the committee responsible for the award.

First awarded in 1927, the Melville Medal is by the 1914 bequest of Admiral George W. Melville, Honorary Member and 18th President of the Society.

MELVILLE MEDALISTS

1927 Leon P. Alford
1929 Joseph W. Roe
1930 Herman Diederichs
William Pomeroy
1931 Arthur Grunert
1932 Alexey Stepanoff
1933 William Caldwell
1935 Oscar R. Wikander
1936 H.A.S. Howarth
1937 Alfred J. Buchi
1938 Alphonse Lipetz
1939 Lester Goldsmith
1940 Carl A.W. Brandt
1941 Roger V. Terry
1942 Kenneth Salisbury
1944 Ernest Robinson
1945 William J. King
1946 Troels Warming
1947 Raymond Martinelli
1948 Reginald Gillmor
1950 Samuel J. Loring
1951 Clayton Barnard
1952 Neil P. Bailey
1953 Jefferson Falkner
1954 Edmund Sylvester
1955 Robert T. Knapp
1958 Thomas P. Goodman
1959 Stephen J. Kline
1960 William G. Steltz
1961 Otto Erich Balje
1962 T.P. Goodman
1963 J.S. Ausman
1964 J.K. Jakobsen
1965 W.A. Van Der Sluys
1967 Bernard Roth
1968 Yian-Nian Chen
1969 Leon R. Glicksman
1970 J. William Holl
A.L. Kornhauser
1971 Thomas Slot
1972 H.W. O'Connor
A.S. Weinstein
1974 V.H. Arakeri
Allan J. Acosta
1975 David M. Sanborn
A.V. Turchina
Ward O. Winer
1976 Bernard J. Hamrock
Duncan Dowson
1977 Eugene F. Fichter
Kenneth H. Hunt
1978 D.E. Negrelli
J.R. Lloyd
J.L. Novotny
1979 Thomas J.R. Hughes
W.K. Liu
1980 Ravi Chandran
John C. Chen
Fred W. Staub
1981 Kyung-Suk Kim
Rodney J. Clifton
1982 Van C. Mow
Steve C. Kuei
W. Michael Lai
Cecil G. Armstrong
1983 Albert M.C. Chan
Sanjoy Banerjee
1984 Michael F. Blair
1985 Lung-Wen Tsai
Alexander P. Morgan
1986 Robert W. Bjorge
Peter Griffith
1987 Dennis L. Siebers
Robert J. Moffatt
Richard G. Schwind
1988 Theodore L. Bergman
Frank P. Incropera
Raymond Viskanta
1989 David C. Wisler
Randall C. Bauer
Theodore H. Okiishi
1990 Cheng Dong
Richard Skalak
Kuo-Li Paul Sung
G.W. Schmid-Schoenbein
Shu Chien
1991 Akira Sakurai
Masahiro Shiotsu
Koichi Hata
1992 Arunava Majumdar
Bharat Bhushan
1993 Stephen C. Cowin
Ali M. Sadegh
G. M. Luo
1994 Yuan-Cheng B. Fung
Shu Qian Liu
1995 Flaura K. Winston
Lawrence L. Thibault
Edward J. Macarak
1996 Yaqi Huang
David S. Rumschitzki
Shu Chien
Sheldon Weinbaum
1997 Michael D. Buschmann
Alan J. Grodzinsky
1998 David E. Halstead
David C. Wisler
Theodore H. Okiishi
Gregory J. Walker
Howard P. Hodson
Hyoun-Woo Shin
1999 Aspi R. Wadia
Peter N. Szucs
David W. Crall
2001 Robert E. Kielb
Josef Panovsky
David C. Wisler
2003 Brent F. Beacher
Fredric F. Ehrich
Zoltan S. Spakovszky
Manuel Martinez-Sanchez
Hyoun-Woo Shin
Seung Jin Song
Albert F. Storace
David C. Wisler
2004 Peng Zhang
Yonggang Huang
Huajian Gao
Keh-Chih Hwang
2006 Raj M. Manglik
Juntao Zhang
2009 James Armor
Paul Cantin
David Christensen
Manuj Dhingra
David Gutz
Yedidia Neumeier
J.V.R. Prasad
Peter N. Szucs
Aspi R. Wadia
2013 Ashwani K. Gupta
Ahmed E.E. Khalil
Kenneth M. Bryden
Sang Chun Lee
2015 Parnia Mohammadi
Liping Liu
Pradeep Sharma
2016 Xianbo Liu
Nicholas Vlajic
Xinhua Long
Guang Meng
Balakumar Balachandran
2017 Qiang Ma
Yihui Zhang

PRIME MOVERS COMMITTEE AWARD

The Prime Movers Committee Award recognizes outstanding contributions to the literature of thermal electric station practice or equipment that are available through public presentation and publication. Those papers approved by the appropriate papers review committees as meeting ASME standards and available in printed form may be considered for this award. Papers, while usually current, need not necessarily be so, and may be by a single author or multiple authors. Authors are not restricted by nationality, age, profession, or membership in any engineering society or other organization. The award is to be made annually, if warranted.

The Prime Movers Committee of the Edison Electric Institute established the award in 1954.

PRIME MOVERS COMMITTEE AWARD RECIPIENTS

1955 Louis Elliot
Walter F. Friend
Edward C. Duffy
Gustaf A. Gaffert
Fred W. Argue
Bernhardt G.A. Skrotski
Robert B. Donworth
Walter J. Lyman
T. Harry Mandil
Nunzio J. Palladino
1956 Milton Shaw
John W. Simpson
1957 Henrich Hegetschweller
Robert L. Bartlett
1958 Vivian F. Estcourt
1959 J. Kenneth Salisbury
1960 Sigmlkund N. Fiala
James N. Harlow
1961 Charles Strohmeyer, Jr.
1963 E.F. Walsh
R.L. Jackson
R.E. Warner
1964 Everett P. Partridge
1965 A.E. Weller
W.T. Reid
1966 F.J. Hanzalek
P.G. Ipsen
1967 Homer F. Hatfield
Mark G. Pfeiffer
Charles B. Wurtz
1968 G.N. Stone
A. J. Clark
1969 Paul Goldstein
Charles L. Burton
1970 Paul Leung
Raymond E. Moore
1971 Paul Leung
Raymond E. Moore
1972 G.S. Liao
Paul Leung
1973 D.W. Rahoi
R.C. Scarberry
J.R. Crum
P.E. Morris
1974 Bezalel Bornstein
Paul Leung
1975 Karl A. Gulbrand
Paul Leung
1976 Hans-Gunter Haddenhorst
Wolfgang Mattick
Z. Stanley Stys
Otto Weber
1977 M. Araoka
J.D. Fox
H. Haneda
K. Setoguchi
W.F. Siddall
1979 Henry E. Lokay
D.G. Rame
W.R. Brosey
1980 Heinz E. Termuehlen
1981 Bezalel Bornstein
Kenneth C. Cotton
1982 Eric Raask
1983 Paul G. Albert
William J. Sumner
1984 Kenneth C. Cotton
Harris S. Shafer
Thomas H. McCloskey
Robert H. Boettcher
1985 David H. Cooke
1986 William J. Sumner
James H. Vogan
Robert J. Lindinge
1987 Peter Schofield
David A. Lantzy
1988 Heinrich Oeynhausen
Gerhard Roettger
Jurgen Ewald
Kurt Schleithoff
Heinz. E. Termuehlen
1990 Rick Blomgren
Thomas G. Ebben
Imdad Imam
John R. Scheibel
1992 John B. Kitto, Jr.
James S. Klug
Steven A. Bryk
1993 Michael F. Link
Erich Winschuh
Karl-Heinz Winterberg
Arne Mattis
1994 Rattan K. Tawney
Ram G. Narula
Michael J. Boswell
Fabrizio DeCandia
1997 Thomas H. McCloskey
Michael A. Pollard
John N. Schimmels
2000 David B. Smith
David A. Mauney
2001 Marco Gambini
Michela Vellini
2005 Fred D. Lang
Loren E. Mayer
Dave A.T. Rodgers
2007 Thomas Reis
Dani Fadda
Mark A. Buzanowski
2008 La Ronda Bowen
Allen Dusault
Ruth MacDougall
Heidi Ochsner
George Simons
2009 Robert Brandt Jr.
2010 Antonio Diego-Marin
Carlos Melendez-Cervantes
Angel A. Mendez-Aranda
Armando Giles-Alarcon
2011 William H. Kirkenir
David Earley
2012 Luther M. Raatikka
2013 Arun Puri
John DiBiase
2014 Robert J. Bell
Albert S. Birks
2016 Weizhong Feng
2017 Darren M. Nightingale

WORCESTER REED WARNER MEDAL

The Worcester Reed Warner Medal is awarded to an individual for outstanding contribution to the permanent literature of engineering. Contributions may be single papers, treatises or books, or a series of papers. They are to deal with progressive ideas relative to engineering, scientific, and industrial research associated with mechanical engineering; the design and operation of mechanical and associated equipment; industrial engineering or management, organization, operation, and the concomitants of each; or other subjects closely associated with the foregoing. To qualify as having permanent value, any paper or treatise should not be less than five years old. Recipients may be non-members of the Society.

Worcester Reed Warner, Charter Member and 16th President of the Society, established the medal by bequest in 1930.

WORCESTER REED WARNER MEDALISTS

1933 Dexter S Kimball
1934 Ralph E. Flanders
1935 Stephen P. Timoshenko
1936 Charles M. Allen
1937 Clarence Hirshfeld
1938 Lawford H. Fry
1939 Rupen Eksergian
1940 William Gregory
1941 Richard Southwell
1942 Fred H. Colvin
1943 Igor I. Sikorsky
1944 Earle Buckingham
1945 Joseph M. Juran
1947 Arpad L. Nadai
1948 Edward S. Cole
1949 Fred B. Seely
1950 Orlan W. Boston
1951 Jacob P. Den Hartog
1952 Max Jacob
1953 William McAdams
1954 Joseph Keenan
1955 Howard S. Bean
1956 J. Keith Louden
1957 William Prager
1958 Harold J. Rose
1959 Daniel Glasstone
1960 Lloyd H. Donnell
1961 C.L.W. Trinks
1962 Virgil M. Faires
1963 Frederick Morse
1964 Oscar J. Horger
1965 Ascher H. Shapiro
1966 Eric A. Farber
1967 Nicholas J. Hoff
1968 Merhyle F. Spotts
1969 Hans W. Liepmann
1970 Wilhelm Flugge
1971 Stephen H. Crandall
1972 Burgess H. Jennings
1973 Max Mark Frocht
1974 Victor L. Streeter
1975 Philip G. Hodge, Jr
1976 Dennis G. Shepherd
1977 Joseph E. Shigley
1978 James H. Potter
1979 Darle W. Dudley
1980 Olgierd C. Zienkiewicz
1981 Frank Kreith
1982 Herbert Kolsky
1983 Allan D. Kraus
1984 Yuan-Cheng Fung
1985 Richard H. Gallagher
1986 Ephraim M. Sparrow
1987 Jack P. Holman
1988 Richard M. Christensen
1989 Lawrence E. Malvern
1990 J. Tinsley Oden
1991 Bruno A. Boley
1992 Junuthula N. Reddy
1993 Frank J. Rizzo
1994 George Springer
1995 Frank P. Incropera
1996 Adrian Bejan
1997 Zdenek P. Bazant
1998 Thomas J.R. Hughes
1999 Yogesh Jaluria
2000 Avram Bar-Cohen
2001 Budugur Lakshminarayana
2002 Tsu-Wei Chou
2004 Ephraim Suhir
2006 James G. Simmonds
2007 Portonovo S. Ayyaswamy
2008 Ashwani K. Gupta
2009 David G. Lilley
2012 János M. Beér
2013 Singiresu S. Rao
2014 Vigor Yang
2015 John H. Lau
2016 Isaac Elishakoff
2017 Michael P. Païdoussis
2018 Martin Ostoja-Starzewski
2019 Arun R. Srinivasa

SERVICE AWARDS

DEDICATED SERVICE AWARD

In 1983, the ASME Board of Governors approved the establishment of the Dedicated Service Award. It honors unusual dedicated voluntary service to the Society marked by outstanding performance, demonstrated effective leadership, prolonged and committed service, devotion, enthusiasm and faithfulness.

The award may be presented to selected individuals who have served the Society for at least ten years in one or more of the following areas: Standards and Certification, Public Affairs and Outreach, Knowledge and Community, Board of Governors, Student and Early Career Development, Institutes, ASME Foundation, and The ASME Auxiliary, Inc. No more than 81 awards will be presented annually. A listing of the DSA recipients can be found at: http://www.asme.org/about-asme/honors-awards/service-awards/dedicated-service-award.

OUTSTANDING STUDENT SECTION ADVISOR AWARD

The Outstanding Student Section Advisor Award (previously the Student Section Advisor Award) is presented to an ASME corporate member (Fellow or Member) who is a current or former outstanding Student Section Advisor and whose leadership and service qualities have contributed, for a period of at least three years, to the program and operations of a Student Section of the Society.

A nomination for this award is expected to substantiate the leadership and service qualities of the nominee by reference to accomplishments in at least the following areas: (a) encouraging engineering students to become Student Members as the initial step in their program of professional development, (b) ensuring that the activities and programs of the Student Section stimulate interest in the profession, and (c) creating a professional awareness in the Student Members that inspires them to upgrade to Member before graduation and to maintain a continuous active membership in ASME.

The award was established in 1990 as the Faculty Advisor Award in a dual effort by the Committee on Honors and the Council on Member Affairs to bring recognition to the Student Section Advisors for their contributions to perpetuating ASME. In 2000 and 2014, the award was renamed the Student Section Advisor Award and the Outstanding Student Section Advisor Award, respectively. Funding for this award was provided by the Old Guard Committee of ASME. In addition, Lynden Davis, Vice President of Region IX, made a generous contribution to enhance the recognition given to all nominees who fulfill eligibility requirements. These nominees receive a plaque, certificate, and a $500 honorarium.

OUTSTANDING STUDENT SECTION ADVISOR AWARD RECIPIENTS

1992 Richard A. Fitz	San Diego State University
1993 Muthukrishnan. Sathyamoorthy	Clarkson University
1994 Paul C. Lam	University of Akron
1995 Charles F. Reinholtz	Virginia Polytechnic Institute
1996 Richard R. Johnson	North Carolina State University
1997 Latif Jiji	City College of New York
1998 Chittaranjan Sahay	State University of New York at Binghamton
1999 Shirley T. Fleischmann	Grand Valley State University
2000 Kenneth L. Gentili	Tacoma Community College
2001 Abel Hernandez–Guerrero	University of Guanajuato at Salamanca
2002 Massimo Capobianchi	Gonzaga University
2003 Ghatu Subhash	Michigan Technological University
2004 Beth Ann Todd	University of Alabama
2005 Lanier S. Cauley	University of South Alabama
2006 Debendra K. Das	University of Alaska Fairbanks
2007 Ronald S. Adrezin	University of Hartford
2008 James P. O'Leary	Tufts University
2009 Timothy C. Scott	University of Virginia
2010 Zbigniew M. Bzymek	University of Connecticut
2011 Jay M. Samuel	University of Wisconsin-Madison
2012 Rick J. Couvillion	University of Arkansas
2013 A. Richard Merz	Lafayette College
2014 Antonios Kontsos	Drexel University
2015 Selin Arslan	Lawrence Technological University
2016 Kok-Keung Lo	The Hong Kong Polytechnic University
2017 Nadir Yilmaz	Howard University
2019 Mohammad Mahinfalah	Milwaukee School of Engineering

SECTION III

JOINT AWARDS

ASME members may be eligible and qualified to receive various other engineering awards. These awards may be classified as being for specific or general engineering achievements. A listing of the two types are given in Tables 3A and 3B on pages 58 and 59, respectively.

Nomination procedures for the joint awards are quite varied. For the six awards listed below, ASME nominates one engineer who will generally be in competition with those submitted by other societies:

National Medal of Science (Annual): Submit nomination directly to ASME by March 1 of the year preceding the award.
James Watt International Medal (Biennial): Submit nomination directly to ASME by March 1 of an even-numbered year for award the following odd-numbered year.
Alfred Noble Prize (Annual): Submit nomination to Honors and Awards Committee of appropriate Technical Division. Nomination from this committee must be received by October 1 of the year preceding the award.
Joan Hodges Queneau Award (Annual): Submit nomination to Honors and Awards Committee of the Technology and Society Division. Same deadlines as for the Noble Prize.
Kelvin Gold Medal (Triennial): Submit nomination directly to ASME by October 1st of second year before award (i.e., October 1, 2006 for 2008 award, etc.).
Niels Bohr International Gold Medal (Triennial): Submit nomination directly to ASME by October 1 of second year before award (i.e., October 1, 2008 for 2010 award, etc.).

Nominations for all other awards may be submitted directly to the Joint Award Board which administers the particular award.

Members or committees may obtain a more complete description of any particular Joint Award upon request to the Honors Department, ASME Headquarters, Two Park Avenue, New York, NY 10016.

TABLE 3A

JOINT ENGINEERING AWARDS

(For Achievements in Special Fields)

Field	Honor and Founding Date	Qualifications	*Participating Bodies	*Administered By
Aeronautics	DANIEL GUGGENHEIM MEDAL (1928)	Contributions to the advancement of aeronautics	ASME, SAE, AIAA	AIAA
Atomic Energy	NIELS BOHR INTERNATIONAL GOLD MEDAL (1955)	Outstanding work by an engineer or physicist for the peaceful utilization of atomic energy		DI
Environmental Conservation	JOAN HODGES QUENEAU AWARD (1976)	Outstanding contribution by an engineer on behalf of environmental conservation		NAuS
Heat Transfer	MAX JAKOB MEMORIAL AWARD (1961)	Eminent achievement in heat transfer	ASME, AIChE	ASME
Invention	NATIONAL INVENTORS HALL OF FAME (1973)	Outstanding U.S. patented invention		NIHF
Literature	ALFRED NOBLE PRIZE (1929)	Outstanding technical paper by an author under 31 years of age	ASME, ASCE, AIME, IEEE, WSE	ASCE
Solid Fuels	PERCY NICHOLLS AWARD (1942)	Notable scientific or industrial achievement in the field of solid fuels	ASME, AIME	ASME/AIME
Transportation	ELMER A. SPERRY AWARD (1955)	Contribution to the advancement of transportation by land, air or sea	ASME, IEEE, SNAME, SAE, AIAA	ASME

TABLE 3B

JOINT ENGINEERING AWARDS

(For General Engineering Achievements)

Honor and Founding Date	Qualifications	*Participating Bodies	*Administered By
HOOVER MEDAL (1930)	Great, unselfish, non-technical services by an engineer to his fellow man	ASME, ASCE, AIME, IEEE, AIChE	ASME
JAMES WATT INTERNATIONAL MEDAL (1936)	Worldwide eminence in the application of science to the progress of mechanical engineering		IMechE
JOHN FRITZ MEDAL (1902)	Notable scientific or industrial achievement in any field of pure or applied science		AAES
KELVIN GOLD MEDAL (1920)	Distinguished service in the application of science to engineering		ICE
NATIONAL MEDAL OF SCIENCE (1959)	Outstanding contributions to knowledge in the physical, biological, mathematical, or engineering sciences		AAES
SOCIETY OF WOMEN ENGINEERS AWARD	Outstanding contribution by a woman in any field of engineering		SWE
WASHINGTON AWARD (1916)	Accomplishments which promote the happiness, comfort, and well-being of humanity	ASCE, AIME, ASME, IEEE, NSPE	WSE

***KEY FOR TABLES 3A AND 3B**

AAES	American Association of Engineering Societies, 1801 Alexander Bell Drive, Reston VA 20191-4344
AIAA	American Institute of Aeronautics & Astronautics, 1801 Alexander Bell Drive, Suite 500, Reston, VA 20191-4344
AIChE	American Institute of Chemical Engineers, 120 Wall Street, 23rd Fl., NY, NY 10005-4020
AIME	American Institute of Mining, Metallurgical, and Petroleum Engineers, 12000 East Adam Aircraft Circle, Englewood, CO 80112
AMA	American Management Association, 1601 Broadway, New York, NY 10019
ASCE	American Society of Civil Engineers, 1801 Alexander Bell Drive, Reston, VA 20191
ASME	American Society of Mechanical Engineers, Two Park Avenue, New York, NY 10016
IDA	The Danish Society of Engineers (IDA)
ICE	Institution of Civil Engineers (Great Britain)
IEEE	Institute of Electrical and Electronics Engineers, Three Park Avenue, 17th Fl. New York, NY 10016
IMechE	Institution of Mechanical Engineers (Great Britain)
NAuS	National Audubon Society, 225 Varick Street, NY, NY 10014
NIHF	National Inventors Hall of Fame, 3701 Highland Park, NW, North Canton, OH 44720
NSPE	National Society of Professional Engineers, 1420 King Street, Alexandria, VA 22314-2715
SAE	Society of Automotive Engineers International, 400 Commonwealth Drive, Warrendale, PA 15096-0001
SME	Society of Manufacturing Engineers, One SME Drive, Dearborn, MI 48121-0930
SNAME	Society of Naval Architects and Marine Engineers, 1452 Duke Street, Alexandria, VA 22314
SWE	Society of Women Engineers, 203 N. La Salle Street, Suite 1675, Chicago, IL 60601
WSE	Western Society of Engineers, 1111 Burlington Avenue, Suite 108, Lisle, Illinois 60532-1290

To: The Nominator(s)

From: ASME Committee on Honors (COH)

This information will assist nominators and endorsers in completing a nomination form for ASME Society-Level Awards or Joint Awards. Specific criteria for each award can be found on the individual award web page at https://www.asme.org/about-asme/get-involved/honors-awards/achievement-awards.

The importance of the quality of the nomination itself, and of the supporting endorsement letters, cannot be overemphasized. The nomination and endorsements should be as specific, accurate, and complete as possible. It is imperative that the true merits of the candidate be conveyed through this information. Keep in mind that in some cases, those involved in the selection process may have no personal knowledge of the candidate, and will rely heavily on the nomination package for the information they need to make reasonable judgments.

An individual will receive only one honor in recognition of the same achievement. The receipt of one ASME honor shall not bar the recipient from another ASME honor provided it is for a different accomplishment. Therefore, it is important to tailor the nomination package, including the letters, to address the specific criteria of the award so as not to disqualify the nominee from future awards.

Nominator Eligibility: Any person may nominate a candidate for a Society-Level Award with the following exceptions:

- Members of the ASME Board of Governors
- Members of the Committee on Honors
- Members of the General Awards Committee
- Award Selection Committee Members, serving on the Selection Award Committee
- Self-nominations (except for the Charles T. Main Student Leadership Award)
- ASME staff

Endorser Eligibility: Any person may write a letter of support for a candidate for a Society-Level Award, with the following exceptions:

- Members of the ASME Board of Governors
- Members of the Committee on Honors
- Members of the General Awards Committee
- Award Selection Committee Members, serving on the Selection Award Committee
- ASME staff

At least two of the supporters must be members of ASME and no more than one should be from the candidate's organization. To avoid conflicts of interest, participation of nominators and supporters who have a monetary relationship with, or are immediate superiors of, a nominee is strongly discouraged. If the nominators are close professional or business associates of the nominee, make sure that the supporters also include people outside the immediate associates of the nominee.

If you are recommending a resubmitted nomination, please ensure that the nomination is as current as possible and no more than three years old.

For award requirements, deadline, etc. go to:
https://www.asme.org/about-asme/get-involved/honors-awards/achievement-awards.

The following pages contained information on how to complete a nomination form.

ASME ACHIEVEMENT AWARD NOMINATION FORM

1. **LIST THE NAME OF THE AWARD.**

2. **DATE:** Give the date the nomination is sent to ASME Headquarters.

3. **NOMINEE:** Provide the full name, ASME membership grade, date of birth, position held, and address(s) of the nominee (s).

4. **CITATION:** Give a 35-40 word summary of nominee's qualifications.

   Remarks: The citation is the heart of the nomination. It should be specific to the award and must be supported in the statement of qualifications that follow.

   It should be substantially different from past awards received.

5. **LIST PRIOR AWARDS RECEIVED FROM ASME.**
   A high degree of overlap between prior awards and new awards should be avoided since an individual can only receive one honor in recognition for the same body of work.

6. **NOMINATOR:** List the nominator's name, any ASME committee positions held, and the relationship of the nominator to the nominee.

   The nominator is required to provide a letter of support.

7. **REFERENCES:** Four letters of reference are required, one from the nominator and three from supporters. The supporters should be acquainted with the nominee's qualification as they relate to the requirements of the award. To avoid potential conflicts of interest, participation of nominators and supporters that have a monetary relationship with, or are immediate superiors of, a nominee is strongly discouraged.

   At least two of the supporters must be members of ASME and no more than one should come from the nominee's organization.

8. **QUALIFICATIONS:** Give complete statements of the specific ways in which the nominee meets the requirements for the honor. Please remember that the judges of your nominee have nothing on which to base their judgment except the facts in your nomination. The statement of qualifications should be a narrative summary with heavy emphasis on the accomplishments that make the nominee worthy of the honor. It should be readable from the first word to the last, written in the active voice. It should be clear and succinct, yet complete. The nomination package should focus only on the achievements related to the specific award. It is not a good idea to dwell on the totality of contributions because (i) it may not be necessary, and (ii) it may create problems for future award nominations when incremental or additional contributions are evaluated.

   In some cases, the statement of qualifications may be written around the chronological steps in a nominee's career. Such a treatment permits a simpler biographical statement required in item #11.
   Frequently, publications or patents of the nominee provide important facts about the nominee's achievements and may be brought into the argument in this section of the nomination rather than separately under Publications and Patents below.

9. **PUBLICATIONS:** List no more than 15 in approximate order of significance and comment on the most important, up to a maximum of 5.

   The books and articles written by the nominee are frequently his/her only visible output. A chronological list of 50 or 100 books and papers produced by the nominee may frequently have little relation to the achievements of the nominee.

   The purpose of the Committee on Honors in requesting a list of only 15 publications and having comments on a maximum of 5 is to require the nominator to point to those publications which support the nominee's achievements and establish the claim to the honor for which he/she is nominated.

As stated above, the quoting of publications to substantiate the nominee's achievements may best be handled under Qualifications, leaving under Publications only a short statement about the number of publications produced and giving a general listing of the subjects covered.

10. U.S. AND FOREIGN PATENTS: List no more than 15 in approximate order of significance and comment on the most important, up to a maximum of 5, using the same procedures described for publications.

11. BRIEF BIOGRAPHY: Give birth date, education, positions held, honors, ASME activities, and participation in other engineering societies.

In listing positions held, include directorships of civic activities and industrial corporations.

For a nominee having many honors, those honors should be included that support the achievements for which the individual is being nominated.

Click here for more details on the various awards' criteria and limitations.

Complete pages 4 and 5.

NOMINATION FOR ASME SOCIETY ACHIEVEMENT AWARD

1. **NAME OF AWARD**: _____

2. **DATE SUBMITTED**: _____

3. **FULL NAME OF NOMINEE(S)**: _____

ASME Membership or Grade of Nominee _____ Date of Birth _____

Nominee(s) Current Position _____

Nominee(s) Address _____

(Indicate whether home or business) _____

_____

_____

4. **CITATION**: (35-40 word summary of nominee's qualifications. The citation should be specific to the award. A high degree of overlap between prior awards and new awards should be avoided since an individual can only receive one honor in recognition for the same achievement.)

_____

_____

_____

_____

5. **LIST PRIOR AWARDS RECEIVED FROM ASME**:

_____

_____

_____

_____

6. **NOMINATOR**: (ASME committee connections, professional acquaintanceships). The nominator is required to submit a letter of support detailing the nominee's qualification for the award.

_____

_____

_____

_____

NOMINATOR E-MAIL: _____

7. **REFERENCES**: (Names and addresses of the three individuals acquainted with nominee's qualifications and requirements of the award who have written the attached letters. **Please be advised that the Committee on Honors will not consider more than four reference letters). The nominator's letter is considered a reference letter.**

   At least two of the reference letters must be members of ASME and no more than one should come from the nominee's organization.

   _____

   _____

   _____

   _____

8. **QUALIFICATIONS**: Give complete statements of the specific ways in which the nominee meets the requirements for the honor. Be sure to support all claims made on the individual's accomplishments.

9. **PUBLICATIONS**: List no more than 15 in approximate order of significance and comment on the most important, up to a maximum of 5. Please cite those publications that specifically support the nominee's achievements and establish a claim to the honor for which the individual is nominated. If there are no publications, please so indicate.

10. **PATENTS**: List no more than 15 in approximate order of significance and comment on the most important, up to a maximum of 5. As with the publications, please cite those patents which specifically support the nominee's achievements and establish a claim to the honor for which the individual is nominated. In the event that the nominee holds no patents, please so indicate.

11. **BRIEF BIOGRAPHY**: Give birth date, education, positions held, honors, ASME activities, and participation in other engineering societies. In listing positions held, include directorships of civic activities and industrial corporations. For a nominee having many honors, those honors should be included that support the achievements for which the individual is being nominated.

INDEX