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## 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 16](#) gives an alphabetical listing of all ASME awards with condensed information concerning submission and consideration of nominations. Table 2 on pages [17 through 21](#) lists the Special Awards Committees. Beginning on [page 22](#), 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 [75 through 76](#). Finally, Section IV, on pages [77 through 81](#), 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 to 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 16](#), 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 [17 through 21](#), lists the Special Award Committees and the technical activity or other activity responsible for manning each committee. Pages [22 through 73](#) 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 <a href="#">(Page 22)</a>	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 <a href="#">(Page 23)</a>	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 <a href="#">(Page 23)</a>	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 <a href="#">(Page 65)</a>	Recognizes an engineering student or recent graduate for “fostering civic service See Current Contest Flyer: <a href="https://www.asme.org/about-asme/get-involved/honors-awards/literature-awards/arthur-l-williston-medal">https://www.asme.org/about-asme/get-involved/honors-awards/literature-awards/arthur-l-williston-medal</a>	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 <a href="#">(Page 24)</a>	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 <a href="#">(Page 24)</a>	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	September 15	SAC	COH October 1
Bergles-Rohsenow Young Investigator Award in Heat Transfer <a href="#">(Page 25)</a>	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 <a href="#">(Page 25)</a>	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 <a href="#">(Page 66)</a>	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 <a href="#">(Page 26)</a>	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 <a href="#">(Page 27)</a>	Outstanding achievement in mechanical engineering 20 years or more following graduation  Special Nomination form required: <a href="https://www.asme.org/about-asme/participate/honors-awards/achievement-awards/charles-russ-richards-memorial-award">https://www.asme.org/about-asme/participate/honors-awards/achievement-awards/charles-russ-richards-memorial-award</a>	\$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 <a href="#">(Pages 27--29)</a>	Leadership and service qualities contributing to programs and operations of an ASME Student Section  Special Nomination form required: <a href="https://www.asme.org/about-asme/participate/honors-awards/achievement-awards/charles-t-main-student-section-awards">https://www.asme.org/about-asme/participate/honors-awards/achievement-awards/charles-t-main-student-section-awards</a>	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 at least one 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 1
Daniel C. Drucker Medal <a href="#">(Page 30)</a>	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 <a href="#">(Page 74)</a>	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: <a href="https://www.asme.org/about-asme/participate/honors-awards/service-awards/dedicated-service-award">https://www.asme.org/about-asme/participate/honors-awards/service-awards/dedicated-service-award</a>	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 <a href="#">(Page 30)</a>	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 <a href="#">(Page 67)</a>	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 <a href="#">(Page 31)</a>	For an individual who has rendered eminent service in increasing the value, importance and attractiveness of mechanical engineering education  Special Nomination form required: <a href="https://www.asme.org/about-asme/participate/honors-awards/achievement-awards/edwin-f-church-medal">https://www.asme.org/about-asme/participate/honors-awards/achievement-awards/edwin-f-church-medal</a>	\$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 15	SAC	GAC/COH Oct 1
Fluids Engineering Award <a href="#">(Page 32)</a>	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/COH October 15
Frank Kreith Energy Award <a href="#">(Page 32)</a>	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 <a href="#">(Page 68)</a>	Significant expertise in fluids engineering	\$10,000 Certificate \$750 Expense Supplement	None	September 1	SAC	GAC/COH October 15
Gas Turbine Award <a href="#">(Page 69)</a>	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 <a href="#">(Page 33)</a>	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	<u>Gold</u> : \$1,500 Vermeil Medal Certificate \$750 Expense Supplement  <u>Silver</u> : \$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 <a href="#">(Page 34)</a>	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 <a href="#">(Page 34)</a>	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 <a href="#">(Page 35)</a>	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 <a href="#">(Page 70)</a>	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 <a href="#">(Page 36)</a>	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 <a href="#">(Page 36)</a>	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 <a href="#">(Page 37)</a>	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 <a href="#">(Page 38)</a>	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 <a href="#">(Page 39)</a>	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/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)
Lakshmi Singh Early Career Leadership Award <a href="#">(Page 39)</a>	For early-career women engineers who have demonstrated considerable leadership in, commitment to, and continued service with ASME	\$3,000 Plaque, Certificate Paid membership for life \$750 Expense Supplement	Applicant must be a woman and current ASME Member who received their baccalaureate degree in mechanical engineering no more than twenty (20) years prior to the award year. Individual's commitment to promotion of diversity and support of the next generation within the engineering profession will be considered.	February 1	GAC	GAC/COH March 1
J.P. Den Hartog Award <a href="#">(Page 39)</a>	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 <a href="#">(Page 40)</a>	Eminent achievement in ASME Codes and Standards for piping and pressure vessels	\$1,000 Bronze Medal Certificate	None	November 15	SAC	GAC/COH March 1
James Harry Potter Gold Medal <a href="#">(Page 40)</a>	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 <a href="#">(Page 41)</a>	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 <a href="#">(Page 41)</a>	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	December 1	SAC	GAC/COH March 1
Kate Gleason Award <a href="#">(Page 42)</a>	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

## 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)
M. Eugene Merchant Manufacturing Medal of ASME/SME <a href="#">(Page 42)</a>	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 <a href="#">(Page 43)</a>	Eminent achievement in machine design	\$1,000 Plaque Certificate	None	February 1	SAC	GAC/COH March 1
Marshall B. Peterson Award <a href="#">(Page 43)</a>	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	GAC/COH March 1
Mayo D. Hersey Award <a href="#">(Page 44)</a>	Distinguished contributions to the advancement of the science and engineering of tribology	\$2,000 Plaque	None	February 1	SAC	COH March 1
McDonald Mentoring Award <a href="#">(Page 45)</a>	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	GAC/COH March 1
Melville Medal <a href="#">(Page 71)</a>	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 <a href="#">(Page 45)</a>	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 <a href="#">(Page 46)</a>	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 <a href="#">(Page 46)</a>	Significant contributions and outstanding achievements which broaden the field of materials engineering. Such achievements may be, for example, in the areas of education, research, development, and service to the field and profession.	1,000 Bronze Medal Certificate \$750 Expense Supplement	None	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)
Nancy DeLoye Fitzroy and Roland V. Fitzroy Medal <a href="#">(Page 47)</a>	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	October 1	SAC	COH March 1
Old Guard Early Career Award <a href="#">(Page 47)</a>	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	GAC/COH March 1
Old Guard Prizes for ASME Student Members <a href="#">(Page 47-50)</a>	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
Outstanding Student Section Advisor Award <a href="#">(Page 70)</a>	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 1
Patrick J. Higgins Award <a href="#">(Page 50)</a>	Contributions to the enhancement of standardization of ASME Standards and Engineering Services	\$1,000 Bronze Medal Certificate	None	September 1	SAC	GAC/COH October 1
Per Bruel Gold Medal for Noise Control and Acoustics <a href="#">(Page 51)</a>	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	GAC/COH March 1
Performance Test Codes Medal <a href="#">(Page 51)</a>	Significant contributions to the development and promotion of ASME Performance Test Codes	\$1,000 Vermeil Medal Certificate	None	January 1	SAC	GAC/COH March 1
Pi Tau Sigma Gold Medal <a href="#">(Page 52)</a>	Outstanding achievement in mechanical engineering within 10 years following graduation  Special Nomination form required: <a href="https://www.asme.org/about-asme/participate/honors-awards/achievement-awards/pi-tau-sigma-gold-medal">https://www.asme.org/about-asme/participate/honors-awards/achievement-awards/pi-tau-sigma-gold-medal</a>	\$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

## 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)
Prime Movers Committee Award <a href="#">(Page 71)</a>	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	GAC/COH March 1
R. Tom Sawyer Award <a href="#">(Page 51)</a>	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	GAC/COH October 1
Ralph Coats Roe Medal <a href="#">(Page 54)</a>	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 <a href="#">(Page 54)</a>	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	\$11,000 Bronze medal Certificate \$750 Expense Supplement	None	February 1	SAC	COH March 1
Robert E. Koski Medal <a href="#">(Page 55)</a>	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 20	SAC	COH March 1
Robert Henry Thurston Lecture Award <a href="#">(Page 55)</a>	Outstanding leader in pure or applied science or engineering	\$500 Plaque Certificate \$750 Expense Supplement	None	January 15	SAC	COH March 15
Robert M. Nerem Education and Mentorship Medal <a href="#">(Page 56)</a>	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
Rufus Oldenburger Medal <a href="#">(Page 56)</a>	Outstanding lifetime achievements in automatic control	\$2,000 Bronze Medal Certificate	None	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)
Ruth and Joel Spira Outstanding Design Educator Award <a href="#">(Page 57)</a>	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 <a href="#">(Page 57)</a>	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 <a href="#">(Page 58)</a>	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 <a href="#">(Page 58)</a>	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 <a href="#">(Page 58)</a>	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 <a href="#">(Page 59)</a>	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 <a href="#">(Page 59)</a>	Meritorious service in the advancement of aeronautics and astronautics	\$1,000 Vermeil Medal Certificate	None	January 1	SAC	COH March 1
Thomas K. Caughey Dynamics Medal <a href="#">(Page 60)</a>	Significant contributions to the field of nonlinear dynamics through practice, research, teaching and/or outstanding leadership	\$2000 Bronze medal Certificate \$750 Expense Supplement	None	September 15	SAC	COH March 1
Thomas A. Edison Patent Award <a href="#">(Page 60)</a>	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
Timoshenko Medal <a href="#">(Page 61)</a>	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 <a href="#">(Page 61)</a>	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

## 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)
Warner T. Koiter Medal <a href="#">(Page 62)</a>	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 <a href="#">(Page 63)</a>	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 <a href="#">(Page 63)</a>	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 <a href="#">(Page 69)</a>	Awarded to an individual for seminal contribution to the permanent literature of engineering. Single papers, treatises, books or series of papers, and digital media may be considered. Works should be highly influential to a generation of engineers, and not exclusively the result of a prolific career	\$2,000 Vermeil Medal Certificate	Literature must be at least 5 years old	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)
Y.C. Fung Early Career Award <a href="#">(Page 64)</a>	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 <a href="#">(Page 64)</a>	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**

<b>AWARD</b>	<b>TECHNICAL DIVISION OR OTHER SPONSOR</b>	<b>NAME OF COMMITTEE</b>
Adaptive Structures and Materials Systems Award	Aerospace Division (AD)	Adaptive Structures and Material Systems Award Committee
Spirit of St. Louis Medal	Aerospace Division (AERO)	Spirit of St. Louis Medal Committee
Edward F. Obert Award	Advanced Energy Systems Division (AESD)	Edward F. Obert Award Committee
Frank Kreith Energy Award	Solar Energy Division and Advanced Energy Systems Divisions (SED & AESD)	Frank Kreith Energy Award Selection Committee
Allan Kraus Thermal Management Medal	Electronic & Photonic Packaging Division (EPPD)	Allan Kraus Thermal Management Medal Committee
Barnett-Uzgiris Product Safety Design Award	Design Engineering Division (DED)	Barnett-Uzgiris Product Safety Design Award Committee
Daniel C. Drucker Medal	Applied Mechanics Division (AMD)	Daniel C. Drucker Medal Committee
Thomas K. Caughey Dynamics Medal	Applied Mechanics Division (AMD)	Thomas K. Caughey Dynamics Medal Committee
Timoshenko Medal	Applied Mechanics Division (AMD)	Timoshenko Medal Committee
Warner T. Koiter Medal	Applied Mechanics Division (AMD)	Warner T. Koiter Medal Committee
H.R. Lissner Medal	Bioengineering Division (BED)	H.R. Lissner Medal Committee
Y.C. Fung Early Career Award	Bioengineering Division (BED)	Y.C. Fung Early Career Award Committee
Savio L-Y. Woo Translational Biomechanics Medal	Bioengineering Division (BED)	Savio L-Y Woo Medal Committee
Van C. Mow Medal	Bioengineering Division (BED)	Van C. Mow Medal Committee
Robert M. Nerem Education and Mentorship Medal	Bioengineering Division (BED)	Robert M. Nerem Education and Mentorship Medal
Thomas A. Edison Patent Award	Design Engineering Division (DED)	Thomas A. Edison Patent Award Committee
Machine Design Award	Design Engineering Division (DED)	Machine Design Award Committee

<b>AWARD</b>	<b>TECHNICAL DIVISION OR OTHER SPONSOR</b>	<b>NAME OF COMMITTEE</b>
J. P. Den Hartog Award	Design Engineering Division (DED)	J.P. Den Hartog Award Committee
Ruth and Joel Spira Outstanding Design Educator Award	Design Engineering Division (DED)	Ruth and Joel Spira Outstanding Design Educator Award Committee
Robert Henry Thurston Lecture Award	Basic Engineering Technical Group (BETG)	Robert Henry Thurston Lecture Award Committee
Johnson & Johnson Consumer Companies, Inc. Medal	Diversity & Inclusion Strategy Committee	Johnson & Johnson Consumer Companies, Inc. Medal Committee
McDonald Mentoring Award	Diversity & Inclusion Strategy Committee	McDonald Mentoring 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
Heat Transfer Memorial Award	Heat Transfer Division (HTD)	Heat Transfer Honors and Awards Committee
Yeram S. Touloukian Award	Heat Transfer Division (HTD)	Yeram S. Touloukian Award 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
Burt L. Newkirk Award	Tribology Division (TRIB)	Tribology Division Honors and Awards 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
Dixy Lee Ray Award	Environmental Systems Division (ESD)	Dixy Lee Ray Award Committee
Fluids Engineering Award	Fluids Engineering Division (FED)	Fluid Engineering Award Committee
Freeman Scholar Award	Fluids Engineering Division (FED)	Freeman Scholar Standing Committee
Gas Turbine Award	International Gas Turbine Institute (IGTI)	Gas Turbine Reading Committee
R. Tom Sawyer Award	International Gas Turbine Institute (IGTI)	R. Tom Sawyer Award Committee
George Westinghouse Medals	Nuclear Engineering Division (NED) and Power Division (PD)	George Westinghouse Medals Committee

<b>AWARD</b>	<b>TECHNICAL DIVISION OR OTHER SPONSOR</b>	<b>NAME OF COMMITTEE</b>
Gustus L. Larson Memorial Award	Pi Tau Sigma and Committee on Honors	Pi Tau Sigma Award Committee
Pi Tau Sigma Gold Medal	Pi Tau Sigma and Committee on Honors	Pi Tau Sigma Award Committee
Charles Russ Richards Memorial Award	Pi Tau Sigma and Committee on Honors	Pi Tau Sigma Award Committee
Henry Laurence Gantt Medal	Management Division (MD)	Henry Laurence Gantt Medal Board
Lakshmi Singh Early Career Leadership Award	Petroleum Division	Lakshmi Singh Early Career Leadership Award
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. Hall Taylor Medal	Council on Standards and Certification	J. Hall Taylor Medal Committee
James N. Landis Medal	Power and Nuclear Engineering Divisions (PD & NED)	James N. Landis Medal Committee
Prime Movers Committee Award	Power Division	Prime Movers Award Committee
James Harry Potter Gold Medal	Energy Conversion Group (ECG)	James Harry Potter Gold Medal Committee
M. Eugene Merchant Manufacturing Research Medal	Manufacturing Engineering Division (MED)	M. Eugene Merchant Manufacturing Medal of ASME/SME Board of Award Committee
Milton C. Shaw Manufacturing Research Medal	Manufacturing Technology Division (MED)	Milton C. Shaw Manufacturing Medal Committee
Blackall Machine Tool and Gage Award	Manufacturing Engineering Division (MED)	Blackall Machine Tool and Gage Award Committee
William T. Ennor Manufacturing Technology Award	Manufacturing Engineering Division (MED)	William T. Ennor Manufacturing Technology Award Committee
Sia Nemat-Nasser Early Career Award	Materials Division (MD)	Nemat-Nasser Early Career Award Committee
Nadai Medal	Materials Division (MD)	Nadai Medal 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
Arthur L. Williston Medal	Old Guard Committee	Old Guard Committee
Old Guard Early Career Award	Old Guard Committee	Old Guard Committee

<b>AWARD</b>	<b>TECHNICAL DIVISION OR OTHER SPONSOR</b>	<b>NAME OF COMMITTEE</b>
Bernard F. Langer Nuclear Codes and Standards Award	Board on Nuclear Codes and Standards	Bernard F. Langer Nuclear Codes and Standards Award Committee
Melvin R. Green Codes & Standards	Council on Standards & Certification	Melvin R. Green Codes & Standards Medal Committee
Patrick J. Higgins Award	Board on Standardization and Testing	Patrick J. Higgins Award Committee
Performance Test Codes Medal	Board on Performance Test Codes	Performance Test Codes Medal Committee
Wilfred C. LaRochelle Conformity Assessment Award	Board on Conformity Assessment	Wilfred C. LaRochelle Conformity Assessment Award Committee
Safety Codes and Standards Medal	Board on Safety Codes and Standards	Safety Codes and Standards Medal Committee
S.Y. Zamrik PVP Medal	Pressure Vessels and Piping Division (PVPD)	S.Y. Zamrik PVP Medal Committee
Robert E. Koski Medal	Fluid Power Systems & Technology Divisions (FPST)	Robert E. Koski Medal Committee
Rufus Oldenburger Medal	Dynamic Systems and Control Division (DSCD)	Rufus Oldenburger Medal Committee
Soichiro Honda Medal	Internal Combustion Engine Division (ICED)	Soichiro Honda Medal Committee
ASME Medal	Committee on Honors (COH)	Committee on Honors
Honorary Member	Committee on Honors (COH)	Committee on Honors
Nancy DeLoye Fitzroy and Roland V. Fitzroy Medal	Committee on Honors (COH)	Fitzroy Committee
Ralph Coats Roe Medal	Committee on Honors (COH)	Ralph Coats Roe Medal Committee
Kate Gleason Award	Committee on Honors (COH)	Kate Gleason Award Committee
Henry Hess	General Awards Committee (GAC)	General Awards Committee

Outstanding Student Section Advisor Award	General Awards Committee (GAC)	General Awards Committee
Holley Medal	General Awards Committee (GAC)	General Awards Committee
Melville Medal	General Awards Committee (GAC)	General Awards Committee
Edwin F. Church Medal	General Awards Committee (GAC)	Edwin F. Church Medal Committee
Charles T. Main Student Leadership Awards	General Awards Committee (GAC)	General Awards 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	1983 Jack N. Binns, Sr.
1922 Frederick A. Halsey	1984 Aaron Cohen
1923 John R. Freeman	1985 Milton C. Shaw
1926 R.A. Millikan	1986 Orlan W. Boston
1927 Wilfred Lewis	1987 Philip G. Hodge, Jr.
1928 Julian Kennedy	1988 Eric Reissner
1930 W.L.R. Emmet	1989 William R. Sears
1931 Albert Kingsbury	1990 Harley A. Wilhelm
1933 Ambrose Swasey	1992 Daniel C. Drucker
1934 Willis H. Carrier	1993 Richard H. Gallagher
1935 Charles T. Main	1996 Robert C. Dean, Jr.
1936 Edward Bausch	1997 Bernard Budiansky
1937 Edward P. Bullard	1998 Frank Kreith
1938 Stephen J. Pigott	1999 H. Norman Abramson
1939 James E. Gleason	2000 Arthur E. Bergles
1940 Charles F. Kettering	2001 Warren M. Rohsenow
1941 Theodore von Karman	2002 Leroy S. “Skip” Fletcher
1942 Ervin G. Bailey	2003 Norman R. Augustine
1943 Lewis K. Sillcox	2004 Bradford W. Parkinson
1944 Edward G. Budd	2005 Robert E. Uhrig
1945 William F. Durand	2006 Richard Goldstein
1946 Morris E. Leeds	2007 Dean L. Kamen
1947 Paul W. Kiefer	2008 Frank E. Talke
1948 Frederick G. Keys	2009 Nam Pyo Suh
1949 Fred L. Dornbrook	2010 John Abele
1950 Harvey C. Knowles	2011 C. Dan Mote, Jr.
1951 Glenn B. Warren	2012 Jan D. Achenbach
1952 Nevin E. Funk	2013 Sia Nemat-Nasser
1953 Crosby Field	2014 Van C. Mow
1954 E. Burnley Powell	2015 James R. Rice
1955 Granville M. Read	2016 Junuthula N. Reddy
1956 Harry F. Vickers	2017 Zdeněk P. Bažant
1957 L.M.K. Boelter	2018 Thomas J.R. Hughes
1958 Wilbur H. Armacost	2019 Reginald I. Vachon
1959 Martin Frisch	2020 Subra Suresh
1960 C. Richard Soderberg	2021 Pol D. Spanos
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	

## **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	2021 Mary I. Frecker
2017 Marcelo J. Dapino	
2018 Diann Brei	
2019 Nancy L. Johnson	
2020 Wei-Hsin Liao	

## **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	2021 Issam Mudawar
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	
2020 Michael J. Ellsworth Jr	

## **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. Blosswick  
 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	2005 George Sehi	2017 Steven W. Beyerlein
1992 Elliot R. Eisenberg	2006 Alok K. Verma	2018 David R. Wallace
1993 Donald R. Haworth	2007 Charles J. Hurst	2020 Michael M. Umbriac
1994 John A. Weese	2009 Scott G. Danielson	Jesse Austin-Breneman
1997 Gary Robert Crossman	2013 Robert O. Warrington, Jr.	Daniel R. Cooper
1998 Mulchand S. Rathod	Allan T. Kirkpatrick	Panos Y. Papalambros
1999 Philip E. Doepker	Scott G. Danielson	2021 Sarim Al-Zubaidy
2000 Mark A. Pagano	Walter W. Laity	2022 Arun R. Srinivasa
2001 Kenneth J. Fisher	2014 Timothy W. Simpson	
2002 Chittaranjan Sahay	2015 Christopher A. Mattson	
2003 Mohammad A. Zahraee	Carl D. Sorensen	
2004 Frank A. Gourley	2016 Allen H. Hoffman	

## **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	2013 Kripa K. Varanasi	2021 Nenad Miljkovic
2005 Sylvie Lorente	2014 Jonathan A. Malen	
2006 Wilson K.S. Chiu	2015 Baratunde Cola	
2007 Andrei G. Fedorov	2016 Patrick E. Hopkins	
2008 Laurent Pilon	2017 Austin J. Minnich	
2009 William P. King	2018 Asegun Henry	
2010 Ronggui Yang	2019 Yongjie Hu	
2011 Edmond J. Walsh	2020 Amy Marconnet	
2012 Evelyn N. Wang		

## **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	1992 Marcus N. Bressler	2009 Mary Drouin
1979 William R. Smith, Sr.	1993 Roger F. Reedy	2010 Ray P. Deubler
1980 Wendell P. Johnson	1994 Owen F. Hedden	2011 Wilfred C. LaRochelle
1981 Lawrence J. Chockie	1995 William G. Knecht	2012 Richard D. Porco
1982 Guy A. Arlotto	1996 Donald F. Landers	2013 Bryan A. Erler
Robert J. Bosnak	1997 John D. Stevenson	2014 Douglas Scarth
Robert B. Minogue	1998 Everett C. Rodabaugh	2015 Thomas J. Vogan
G. Wayne Reinmuth	1999 James A. Perry	2016 Charles Bruny
1983 Spencer H. Bush	2000 Sidney A. Bernsen	2017 Kevin Ennis
1984 Floyd N. Moschini	2001 Charles J. Pieper	2018 Ralph S. Hill III
1985 Howard F. Dobel	2002 Kenneth R. Balkey	2019 Richard W. Swayne
1986 Edwin J. Hemzy	2003 Richard W. Barnes	2020 Annemarie Appleton
1987 Robert L. Dick	2004 Yasuhide Asada	2021 Timothy M. Adams
1988 Edward F. Gerwin	2005 Richard E. Gimple	
1989 William H. Miller, Jr.	2006 Warren H. Bamford	
1990 Edward L. Williamson	2007 Raymond R. Weidler	
1991 T. Eugene Northup	2008 Christopher L. Hoffman	

## **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.	1997 Chiao-Ping Ku	2013 Tae Ho Kim
1977 Steve M. Rohde	1998 Timothy C. Ovaert	2014 Bart Raeymaekers
1978 Pradeep Gupta	1999 Rohit S. Paranjpe	2015 David Burris
1979 Thomas A. Dow	2000 Steven R. Schmid	2016 Aaron Greco
1980 Stuart H. Lowenthal	2001 Andreas A. Polycarpou	2019 Alison C. Dunn
1982 Dennis F. Li	2002 Thierry A. Blanchet	2020 Sung-wa Jeung
1983 Bharat Bhushan	2003 Sergio E. Diaz	2021 Robert E. Kielb
1984 Hooshang Heshmat	2004 W. Gregory Sawyer	
1986 Itzhak Green	2005 Michael R. Lovell	
1987 Pawan K. Goenka	2006 Mitjan Kalin	
1988 Kyriakos Komvopoulos	2007 Lior Kogut	
1990 Michael M. Khonsari	2008 Michael Nosonovsky	
1991 Farshid Sadeghi	2009 Robert W. Carpick	
1992 Thomas N. Farris	2010 C. Fred Higgs III	
1994 Srinivasan Chandrasekar	2011 Robert L. Jackson	
1996 Christopher DellaCorte	2012 Ashlie Martini	

## **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	1981 Shien-Ming Wu	2016 Kenneth E. Goodson
1949 Arthur M. Wahl	1982 Leroy S. Fletcher	2017 Jian Cao
1950 Burgess H. Jennings	1983 Peter A. Engel	2018 Kon-Well Wang
1951 J. Kenneth Salisbury	1984 Ferdinand Freudenstein	2019 Pradeep Sharma
1952 Jess H. Davis	1985 Ephraim M. Sparrow	2020 Katepalli R. Sreenivasan
1953 Thomas M. Lumly	1986 E. Kent Springer	2021 Wei Chen
1954 Robert H. Hughes	1987 Allen F. Rhodes	
1955 Sylvan Cromer	1988 Ward O. Winer	
1956 Everett M. Barber	1989 Ramesh K. Shah	
1957 Wayne C. Edmister	1990 Ranga Komanduri	
1958 Donald C. Burnham	1991 Frederick F. Ling	
1959 M. Eugene Merchant	1992 John H. Staehlin	
1960 Ascher H. Shapiro	1994 C. Dan Mote, Jr.	
1961 Harrison A. Storm, Jr.	1995 Junuthula N. Reddy	
1962 Dudley D. Fuller	1996 Tsu-Wei Chou	
1963 George F. Carrier	1997 Masayoshi Tomizuka	
1964 Simon Ostrach	1998 Hong Thomas Hahn	
1965 Leonard J. Koch	1999 Ephraim Suhir	
1966 J. Lowen Shearer	2000 Bharat Bhushan	
1967 T. Cyril Noon	2001 Adrian Bejan	
1968 Bernard W. Shaffer	2002 Salvatore Torquato	
1969 Robert E. Uhrig	2003 Roop L. Mahajan	
1970 Ralph G. Nevins	2005 Warren R. DeVries	
1971 Howard L. Harrison	2006 Ramesh K. Agarwal	
1972 Charles E. Jones	2007 Richard O. Buckius	
1973 Ali A. Seireg	2008 Guruswami Ravichandran	
1974 Richard J. Grosh	2009 E. Daniel Hirleman, Jr.	
1975 Carl F. Zorowski	2010 Yonggang Huang	
1976 Ali S. Argon	2011 Huajian Gao	
1977 Hassan A. Hassan	2012 Pol D. Spanos	
1978 John C. Chato	2013 A. Galip Ulsoy	
1979 John H. Lienhard	2014 Suresh V. Garimella	
1980 Albert I. King	2015 Xiang Zhang	

## **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 at least 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 may be presented to qualified candidates.

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

1925 Clement R. Brown	Catholic University of America	1993 Carol J. Bates	Purdue University
1926 W.C. Taylor	Johns Hopkins University	1994 Robert R. Vallance	Virginia Polytechnic Institute
1928 Robert M. Meyer	Newark College of Engineering	1995 John C. Schiffer	University of Akron
1930 Jules Podnosoff	Polytechnic Institute of Brooklyn	1996 Joseph G. McElhane	Virginia Polytechnic Institute
1931 Robert E. Klise	University of Michigan	1997 Fionna K. Murray	Virginia Polytechnic Institute
1932 Marshall Anderson	University of Michigan	1998 Peter J. Umbdenstock	Mississippi State University
1933 George D. Wilkinson, Jr.	Newark College of Engineering	1999 Angela Carr	Virginia Polytechnic Institute and State University
1934 Philip P. Self	Colorado State College	2000 Michele A. Monnier	University of Dayton
1935 G. Lowell Williams	Lafayette College	2001 Andrea C. Hoth	Valparaiso University
1937 Allan P. Stern	Case School of Applied Science	2002 Amip Shah	Rowan University
1938 Edward W. Connelly	University of Detroit	2003 Jill C. Anderson	Boston University
1939 James H. Bright	Lehigh University	2004 Stephen J. Klick	Boise State University
1940 Frank de Pould	Case School of Applied Science	2005 Mandy Brogdon	University of Dayton
1941 John J. Balun	University of Detroit	2006 Adeodato I. Botello-Arrendondo	University De Guanajuato
1942 Bernard J. Isabella	Case School of Applied Science	2007 Daniel Joseph Hanna	Drexel University
1943 Mitchell C. Kazen	University of Detroit	2008 Vince D. Romanin	University of Dayton
1944 Fred M. Piaskowski	Southern Methodist University	2009 Brianne M. Wilburne	The Pennsylvania State University
1945 Jack Drandell	University of Detroit	2010 Nathaniel Dale Taylor	Drexel University
1946 Victor S. Rykwald	Stevens Institute of Technology	2011 Danielle Jacobson	Drexel University
1947 Alvaro R. Boera	University of Pittsburgh	2012 Caitlin A. Correll	Cooper Union
1948 Earle Duane Stewart	University of Detroit	2013 Leila C. Aboharb	Drexel University
1949 Stanley M. Kuvacheff	University of Detroit	2014 Meredith A. Campbell	Daniel Webster College
1950 Richard T. Johnson	Cooper Union School of Engineering	2015 Jonathan D. Jennings	University of Missouri
1952 Israel E. Rubin	Princeton University	2016 Hind Hajjar	American University of Beirut
1953 Peter Ashurkoff	Carnegie Institute of Technology	2017 Gemma Iruegas	Universidad Panamericana
1954 John B. Pendergrass, Jr.	Cooper Union School of Engineering	2018 Brandon Graham	Rowan University
1955 Richard J. Slember	University of Detroit	2019 Sandy Karam	Notre Dame University – Louaize
1956 Marion J. Balcerzak	University of Detroit	2020 Jad Hakim	MKSS's Cummins College of Engineering for Women, Pune
1957 Joseph P. Hunter	University of Detroit	2021 Arya Vyavahare	
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		

**CHARLES T. MAIN AWARD RECIPIENTS – SECOND PLACE**

1984 Douglas L. Wahl	Oregon Institute of Technology	2021 Samantha R. Hoover	Milwaukee School of Engineering
1985 Scott E. Cooper, Jr.	University of NC at Charlotte		
1986 André 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		
2020 Adam Hernandez- Miranda			

## **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	2016 Kyung-Suk Kim
1999 Ascher H. Shapiro	2017 David M. Parks
2000 Philip G. Hodge, Jr.	2018 David M. Barnett
2001 Bruno A. Boley	2019 John L. Bassani
2002 George J. Dvorak	2020 Glaucio H. Paulino
2003 Leon M. Keer	2021 Markus J. Buehler
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	

## **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	2016 Jerald L. Schnoor
2000 Seymour K. Padnos	2018 C. Andrew Miller
2001 John F. Elter	2020 Edward S. Rubin
2002 Mohammad A. Al-Sarawi	2021 Ashwani Gupta
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	

## 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	2017 Francis A. Kulacki
1974 Hobart A. Weaver	2018 Kendra V. Sharp
1975 Harry Conn	2019 Andreas Polycarpou
1976 Frank W. Von Flue	2020 Nael Barakat
1979 Kenneth A. Roe	2021 Efstathios E. Michaelides
1980 Dennis K. Bushnell	2022 Suvrandu De
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 Wilbur 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	

## 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.	2009 Ronald J. Adrian
1981 Ascher H. Shapiro	2011 John F. Foss
1983 George Rudinger	2012 Gretar Tryggvason
1984 Hans W. Liepmann	2013 Ephraim J. Gutmark
1985 Apollo M.O. Smith	2014 Efstathios E. Michaelides
1986 Milton S. Plesset	2015 Promode R. Bandyopadhyay
1987 Mark V. Morkovin	2016 Patrick J. Roache
1988 Allan J. Acosta	2017 Michael W. Plesniak
1989 William C. Reynolds	2018 Upendra S. Rohatgi
1990 Turgut Sarpkaya	2019 Nadine Aubry
1991 Frank M. White	2020 Howard A. Stone
1992 Christopher E. Brennen	2021 Steven L. Ceccio
1993 Roger E.A. Arndt	2022 Yassin A. Hassan
1994 Graham B. Wallis	
1995 Clayton T. Crowe	
1996 Budugur Laskhminarayana	
1997 Virendra C. Patel	
1998 Michael Roco	
1999 Michael P. Païdoussis	
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	

## 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	2019 Gang Chen
2007 D. Yogi Goswami	2020 Petros Sofronis
2008 Ari Rabl	2021 Robert Pitz-Paal
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	

## 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	1981 Earle C. Miller	2010 Wlodzimierz Blasiak
1954 Walker L. Cisler	1982 William T. Reid	2011 Nicholas Syred
1955 Hyman G. Rickover	1983 Eugene P. Wilkinson	2012 Richard R. Schultz
1956 Perry W. Pratt	1984 Joseph R. Szydlowski	2013 Yiannis A. Levendis
1957 Alfred Iddles	1985 Eugene A. Saltarelli	2014 Ryoichi S. Amano
1958 Frederick P. Fairchild	1986 Richard J. Coar	2015 Karen A. Thole
1960 Ernest C. Gaston	1987 Henry O. Pohl	2016 Kenneth Bray
1961 Gerald V. Williamson	1988 Warren A. Rhoades, Jr.	2017 Alan Williams
1962 Edwin H. Kreig	1989 J. Ed Smith	2018 Timothy C. Lieuwen
1963 Abbott L. Penniman, Jr.	1990 John J. Taylor	2019 Hameed Metghalchi
1964 Frederick W. Argue	1991 Ralph J. Ortolano	2020 Darrell Pepper
1965 Robert A. Bowman	1992 Daniel R. Wilkins	2021 Jovica Riznic
1966 Robert C. Allen	1993 Frederick W. Buckman	
1967 Robert A. Baker, Sr.	1995 Thomas H. McCloskey	
1968 Roland A. Budenholzer	1998 Ashwani K. Gupta	
1969 Ralph C. Roe	1999 Atambir S. Rao	
1970 Charles A. Meyer	2000 David G. Lilley	
Robert C. Spencer, Jr.	2001 János M. Beér	
1971 Wilfred McGregor Hall	2002 Arthur H. Lefebvre	
1972 William S. Lee	2003 Yassin A. Hassan	
1973 Bernard F. Langer	2004 Adel F. Sarofim	
1974 Charles W. Elston	2005 Subramanyam R. Gollahalli	
1976 John W. Simpson	2006 Ben T. Zinn	
1978 Peter Fortescue	2007 Roman Weber	
1979 William R. Gould	2008 Edwin A. Harvego	
1980 Fred J. Moody	2009 Essam E. Khalil	

### GEORGE WESTINGHOUSE SILVER MEDALISTS

1972 William E. Rice	1991 John B. Kitto, Jr.	2021 Brian Wodka
1973 Michael A. Ambrose	1993 Stephen R. Reid	
1974 Shelby L. Owens	1995 V.K. "Bindi" Chexal	
1976 Richard V. Shanklin, III	1998 Ting Wang	
1977 James C. Corman	2001 Susumu Mochida	
1978 Romano Salvatori	2003 Jason E. Jenkins	
1979 Edward W. Stenby	2005 Andrzej Szlek	
1980 Robert L. Gamble	2009 Somrat Kerdsuwan	
1981 Ronald Pigott	2010 Timothy C. Lieuwen	
1982 Leslie D. Kramer	2011 Margaret S. Wooldridge	
1983 Remco P. Waszink	2012 Weihong Yang	
1984 William J. Bryan	2015 Angela Violi	
1986 Joseph A. Barsin	2016 Elia Merzari	
1987 Albert D. LaRue	2017 Frédéric Villeneuve	
1989 Scott A. Patulski	2020 Sibendu Som	
1990 Atambir S. Rao		

## **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	1995 Wing Kam Liu	2016 Kenneth T. Christensen
1976 John G. Bollinger	1996 David N. Ku	2017 Evelyn N. Wang
1977 Nam P. Suh	1997 Suhada Jayasuriya	2018 Kripa K. Varanasi
1978 Philip H. Francis	1998 Jamal Seyed-Yagoobi	2019 Yong Zhu
1979 Gerald R. Seemann	1999 James F. Oliver	2020 Yuri Bazilevs
1980 Arthur G. Erdman	2000 Cristina H. Amon	2021 Patrick E. Hopkins
1981 Terry E. Shoup	2001 Arunava Majumdar	
1982 Melvyn C. Branch	2002 Thomas R. Kurfess	
1983 R. Byron Pipes	2003 Yonggang Huang	
1984 Robert A. Altenkirch	2004 Suresh V. Garimella	
1985 Klaus-Jurgen Bathe	2005 Robert Parker	
1986 Bharat Bhushan	2006 Narayana R. V. Aluru	
1987 David L. Butler	2008 Andrew G. Alleyne	
1988 Adrian Bejan	2009 Anna G. Stefanopoulou	
1989 Boris Rubinsky	2010 Andrei G. Fedorov	
1990 Dale E. Klein	2011 Arvind Raman	
1991 Pol D. Spanos	2012 Nicolas Hadjiconstantinou	
1992 George P. Peterson	2013 William P. King	
1993 Bahram Ravani	2014 Wei Lu	
1994 Salvatore Torquato	2015 Nikhil Ashokrwini Koratkar	

## **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	2002 Kenneth R. Diller	2017 Gerard A. Ateshian
1988 Alf L. Nachemson	2003 Vijay K. Goel	2018 Louis J. Soslowsky
1989 Robert M. Nerem	2004 John M. Tarbell	2019 Jennifer S. Wayne
1990 Albert B. Schultz	2005 Steven A. Goldstein	2020 Larry A. Taber
1991 Savio L.Y. Woo	2006 Peter A. Torzilli	2021 C. Ross Ethier
1992 John C. Chato	2007 Maury L. Hull	2022 Lori A.
1993 Don P. Giddens	2008 Noshir A. Langrana	
1994 Sheldon Weinbaum	2009 Thomas P. Andriacchi	
1995 Robert E. Mates	2010 Roger D. Kamm	
1996 Albert I. King	2011 Jay D. Humphrey	
1997 Ajit P. Yoganathan	2012 David L. Butler	
1998 Malcolm H. Pope	2013 Mehmet Toner	
1999 Stephen C. Cowin	2014 Kyriacos A. Athanasiou	
2000 Morton H. Friedman	2015 James A. Ashton-Miller	
2001 W. Michael Lai	2016 Roger C. Haut	

## 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	1998 Amir Faghri James V. Beck	2015 John H. Lienhard V Francis A. Kulacki
1976 Warren H. Giedt Raymond Viskanta	1999 Sanjoy Banerjee Soung M. Cho	Zhuomin Zhang
1977 Robert D. Cess Rolf H. Sabersky	Avram Bar-Cohen	2016 Raj M. Manglik Jayathi Y. Murthy
1978 Richard J. Goldstein John A. Clark	2000 Ta-Shen Chen Ramesh K. Shah	Brent W. Webb
1979 Arthur E. Bergles Yih-Yun Hsu	Ashley F. Emery	2017 Zahid H. Ayub Christoph Beckermann
1980 John H. Lienhard	2001 Portonovo S. Ayyaswamy George P. Peterson	Mohammed El-Genk
1981 Ared Cezaairliyan Kwang-Tzu Yang	2002 Massoud Kaviany Je-Chin Han	2018 Li Shi M. Pinar Mengüç
Ivan Catton	Roop L. Mahajan	Timothy S. Fisher
1982 Yasuo Mori	2003 Dimos Poulikakos M. Michael Yovanovich	2019 Dereje Agonafer James Klausner
1983 Roger Eichhorn	James R. Welty	Satwindar S. Sadhal
1984 Wei-Jei Yank	2004 Mohammad Faghri Yildiz Bayazitoglu	2020 Bahgat Sammakia Vishwanath Prasad
1985 Ralph Greif Virgil E. Schrock	2005 Abdolhossein Haji-Sheikh Michael Modest	Terrance Simon
1986 Richard C. Chu Arcot Ramachandran	Wei Shyy	2021 Laurent Pilon Michael Ohadi
1987 Ralph L. Webb M. Necati Ozisik	2006 Arun Majumdar C. Thomas Avedisian	Wilbur J. Marner
1988 Gerard M. Faeth Frank P. Incropera	Kambiz Vafai	
1989 Bora B. Mikic Tom J. Love, Jr.	2007 Donald M. McEligot Costas Grigoropoulos	
Robert J. Moffat	Van P. Carey	
1990 Alfred L. Crosbie Michael M. Chen	2008 Lawrence A. Kennedy Leon R. Glicksman	
Michael G. Dunn	Gang Chen	
1991 John R. Howell Kenneth L. Johnson	2009 Cristina H. Amon Jong H. Kim	
Suhas V. Patankar	Richard H. Pletcher	
1992 Vijay K. Dhir Thomas F. Irvine, Jr.	2010 Suresh V. Garimella John R. Thome	
Wataru Nakayama	Mamoru Ishii	
1993 Vedat S. Arpaci W. J. Minkowycz	2011 Bengt A. Sunden Sumanta Acharya	
1994 Kenneth R. Diller Adrian Bejan	2012 Chang H. Oh Satish G. Kandlikar	
1995 John R. Lloyd Yogesh Jaluria	Javad T. Mostaghimi	
1996 Boris Rubinsky Ping Cheng	2013 Aldo Steinfeld Yogendra Joshi	
Leroy S. Fletcher	Issam Mudawar	
1997 Chung K. Law Sadik Kakac	2014 Jacob Nan-Chu Chung Xianfan Xu	
	Kenneth E. Goodson	

## **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	2019 Akira Goto
1981 Warren G. Whippen	2020 Ryoichi S. Amano
1982 Allan J. Acosta	2021 Robert J. Visintainer
1983 Calvin A. Gongwer	2022 Paul U. Thamsen
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	

## 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	1989 Jack S. Kilby
1928 Elmer A. Sperry	Jerry D. Merryman
1930 Baron C. Shiba	James H. Van Tassel
1934 Irving Langmuir	1990 Roy J. Plunkett
Germeshausen	1991 James R. Thompson, Jr.
1936 Henry Ford	1994 Dominick Danna
1937 Frederick G. Cottrell	Richard W. Newman
1938 Francis Hodgkinson	William C. Moore
1939 Carl E. Johansson	1996 Bernard J. Miller
1940 Edwin H. Armstrong	1998 Donna L. Shirley
1941 John C. Garand	2001 Heinz Erzberger
1942 Ernest O. Lawrence	2005 James D. Walker
1943 Vannevar Bush	2008 David +G. Lilley
1944 Carl L. Norden	2010 Ashwani K. Gupta
1945 Sanford A. Moss	2021 Yogesh Jaluria
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	

## 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	2004 Ray M. Bowen	2016 Cristina H. Amon
1979 H. Norman Abramson	J. Tinsley Oden	Ashwani Gupta
1980 Jimmy Carter	2005 Sia Nemat-Nasser	Shiv G. Kapoor
Robert M. Drake, Jr.	2006 Alva L. Addy	2017 Ramesh K. Agarwal
Jost M. Haenny	James R. Welty	John W. Cipolla
Yu-Tung Hu	Ward O. Winer	Michael F. Modest
Alexander L. London	Charles O. Velzy	2018 Portonovo S. Ayyaswamy
Frithiof I. Niordson	John H. Sununu	Alan Needleman
Jacques Peters	2007 Bobby L. Green	Robert M. Nerem
Kenneth Preiss	2008 Nancy D. Fitzroy	Frank E. Talke
1981 James L. Everett	2009 David L. Belden	2019 Bilal M. Ayyub
1985 Ronald L. Geer	Winfred M. Phillips	D. Yogi Goswami
Theodore H.H. Pian	William A. Weiblen	Amir Faghri
1986 Bernard Crossland	2010 William J. “Bill” Adams	2020 Je-Chin Han
1989 Hans W. Liepmann	Harry Armen	Masayoshi Tomizuka
1990 George Herrmann	Keith B. Thayer	Farshid Sadeghi
1991 George N. Sandor	David N. Wormley	2021 Pamela Norris
1992 Richard M. Christensen	Sam Y. Zamrik	Hameed Metghalchi
Richard J. Goldstein	2011 Adrian Bejan	John B. Kitto Jr.
Bernard L. Koff	Junuthula N. Reddy	Marshall G. Jones
1993 Joseph M. Juran	2012 Yildiz Bayazitoglu	Yonggang Huang
1995 Thomas R. Kane	Zdënek P. Bažant	
Paul Leung	Vijay K. Dhir	
John H. Lienhard	Yogesh Jaluria	
1996 Yuan-Cheng B. Fung	2013 Ted Belytschko	
Ascher H. Shapiro	John R. Howell	
1997 L. S. “Skip” Fletcher	Said Jahanmir	
Salomon Levy	Sadik Kakaç	
C. Dan Mote, Jr.	Arunava Majumdar	
1998 Genichi Taguchi	2014 Warren R. DeVries	
1999 W. Wayne Allen	Pol D. Spanos	
Michael M. Carroll	2015 Romesh Batra	
John Dundurs	Wilbur J. Marner	
2001 Earnest L. Daman	Terry E. Shoup	
Henry McDonald		
2002 Jan D. Achenbach		
Bei Tse Chao		
Amos E. Holt		
2003 Richard Rosenberg		
Karl J. Springer		
John A. Swanson		

## **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	1986 Hugh A. Williams, Jr.	2003 Rodica A. Baranescu	2016 Terrence F. Alger II
1969 Leo T. Brinson, Jr.	1987 Garin M. VanDeMark	2004 Humphrey Niven	2017 Paul Miles
1971 Melvin J. Helmich	1989 Richard D. Kieser	2005 Karl J. Springer	2018 Dennis L. Siebers
1972 R. Rex Robinson	1990 Daniel C. Garvey	2006 N. Richard Dunteman	2019 Peter K. Senecal
1973 Warren A. Rhoades	1991 Fred S. Schaub	2007 Paul R. Danyluk	2020 André L. Boehman
1974 Warren J. Severin	1992 John A. Kimberley	2008 Dionissios N. Assanis	2021 Gautam Kalghatgi
1975 William Spelcher	1993 Edward F. Obert	2009 Ronald D. Matthews	
1979 Helmuth G. Braendel	1994 Otto A. Uyehara	2010 John E. Dec	
1981 Phillip S. Myers	1995 John C. Hallinan	2011 Rolf D. Reitz	
1982 David B. Field	1997 Benny Ballheimer	2012 Nicholas P. Cernansky	
1983 James H. Garrett	1999 Serge Gratch	2013 John H. Johnson	
1984 Samuel S. Lestz	2000 Charles A. Amann	2014 Robert M. Wagner	
1985 John M. Bailey	2002 Warren E. Snyder	2015 Volker Sick	

## **LAKSHMI SINGH EARLY CAREER LEADERSHIP AWARD**

The Lakshmi Singh Early Career Leadership Award is recognizes early-career women engineers who have demonstrated considerable leadership in, commitment to, and continued service with ASME.

The award was established in 2020 by the Petroleum Division.

### **LAKSHMI SINGH EARLY CAREER LEADERSHIP AWARD RECIPEINTS**

2020 Columbia Mishra

## **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	2021 Balakumar Balachandran
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	1984 William D. Doty	2006 Thomas P. Pastor
1967 David B. Westrom	1985 Robert C. Griffin	2007 Donald F. Landers
1968 Max B. Higgins	1986 James R. Farr	2008 Joel G. Feldstein
1969 Everett O. Waters	1987 Stephen A. Bergman	2009 Owen F. Hedden
1970 Bernard F. Langer	1988 George E. Fratcher	2010 Urey R. Miller
1971 James M. Guy	1989 Walter R. Mikesell	2011 Mahendra D. Rana
1972 William Rolfe Gall	1990 William R. Apblett, Jr.	2012 Jeffrey F. Henry
1973 John D. Mattimore	1991 Bernard W. Bace	2013 David Berger
1974 Jean E. Lattan	1992 Maan H. Jawad	2014 Charles Becht IV
1975 Walter H. Davidson	1993 Clyde C. Neely	2015 Peter A. Molvie
Frederick A. Hough	1994 Domenic A. Canonico	2016 Jon E. Batey
Joe J. King	1995 Guido G. Karcher	2017 Ronald W. Haupt
Burton T. Mast	1996 Marcus N. Bressler	2018 Daniel T. Peters
Andrew J. Shoup	1997 John R. MacKay	2019 Walter J. Sperko
1977 James S. Clarke	1998 Martin D. Bernstein	2020 Donald R. Frikken
Raymond R. Maccary	1999 Richard E. Feigel	2021 Susumu Terada
1978 Adolph O. Schaefer	2000 Ernest A. Steen	
1979 John F. Harvey	2001 William N. McLean	
1980 Paul M. Brister	2002 Allen Selz	
1981 Robert J. Cephuch	2003 Michael Gold	
1982 George V. Smith	2004 J. Robert Sims	
1983 Lowell L. Elder	2005 Blaine W. Roberts	

## 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	1999 C. Thomas Avedisian	2016 Derek Bradley
1981 Joseph Kestin	2000 Dimos Poulidakos	2018 Raj M. Manglik
1982 Paul Leung	2001 Kunio Yoshikawa	2021 Tatiana Morosuk
1983 Kenneth C. Cotton	2003 Aswhani K. Gupta	
1984 Robert H. Page	2004 Van P. Carey	
1985 Warren H. Giedt	2005 Amir Faghri	
1986 Jack P. Holman	2006 Richard O. Buckius	
1988 Richard A. Gaggioli	2007 Satwindar Sing Sadhal	
1990 Adrian Bejan	2008 Merle C. Potter	
1991 James B. Jones	2009 Claus Borgnakke	
1992 David Japikse	2010 Massoud Kaviany	
1993 George J. Silvestri, Jr.	2011 Hameed Metghalchi	
1995 Elias P. Gyftopoulos	2012 Essam E. Khalil	
1996 Antonio Valero	2013 Sanford A. Klein	
1997 Michael J. Moran	2014 Michael R. von Spakovsky	
1998 George Tsatsaronis	2015 Ahmed F. Ghoniem	

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

### **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	2021 Bioengineering Women's
2006 Abel Hernandez-Guerrero	Networking Group
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	2020 Lisa Burton O'Toole
2012 Edith H. Stern	2021 Alba L. Colon-Rodriguez
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 Seiueomon Inaba	2019 Sujeet Chand
1988 Donald E. Petersen	2020 Krishnamoorthy Subramanian
1989 Brian H. Rowe	2021 K. Scott Smith
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	

## 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	1988 Hamilton H. Mabie	2019 Gregory S Chirikjian
1960 Rudolph E. Peterson	1989 Arthur G. Erdman	2020 Jian S. Dai
1961 Robert G. LeTourneau	1990 Charles R. Mischke	
1962 J.F. Downie Smith	1991 F.R. Erskine Crossley	
1963 Colin Carmichael	1992 Edward J. Haug, Jr.	
1964 Rufus Oldenburger	1993 Charles O. Smith	
1965 Arthur M. Wahl	1994 Kenneth J. Waldron	
1966 Beno Sternlicht	1995 Ray C. Johnson	
1967 Ernest Wildhaber	1996 Hans A. Eschenauer	
1968 C. Walton Musser	1997 Jack A. Collins	
1969 Eugene L. Radzimovsky	1999 Panos Y. Papalambros	
1970 Reynold B. Johnson	2000 Joseph Duffy	
1971 Walter L. Starkey	2001 Steven Dubowsky	
1972 Ferdinand Freudenstein	2002 Robert L. Norton	
1974 Allen S. Hall, Jr.	2003 Richard F. Salant	
1975 George N. Sandor	2004 Sridhar Kota	
1976 Charles W. Radcliffe	2005 Bahram Ravani	
1977 Mathew M. Kuts	2006 Itzhak Green	
1978 Ali A. Seireg	2007 Steven A. Velinsky	
1979 Robert R. Slaymaker	2008 Alexander H. Slocum	
1980 Merhyle F. Spotts	2009 J. Michael McCarthy	
1981 Henry O. Fuchs	2010 Jahangir S. Rastegar	
1982 Delbert Tesar	2013 Clément Gosselin	
1983 Edward J. Wellauer	2014 Larry L. Howell	
1984 Bernard Roth	2015 Jorge Angeles	
1985 Joseph E. Shigley	2016 Sunil K. Agrawal	
1986 Atmaram H. Soni	2017 S.V. Sreenivasan	
1987 Gerard G. Lowen	2018 John J. Uicker Jr.	

## 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	2020 Zhou Chen
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	2013 Michael M. Khonsari
1966 Harmen Blok	2014 John A. Tichy
1967 Milton C. Shaw	2015 Ali Erdemir
1968 Ragnar Holm	2016 Izhak Etsion
1969 William A. Zisman	2017 James R. Barber
1970 Merrell R. Fenske	2018 Andreas A. Polycarpou
1971 Dudley D. Fuller	2019 Lavern D. Wedeven
1972 Sydney J. Needs	2020 Bharat Bhushan
1973 Donald F. Wilcock	2021 Itzhak Green
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.	

## **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	2018 Robert M. Wagner
2011 Robert Birkmyre	2019 Naomi C. Chesler
2012 Timothy S. Fisher	2020 Eduardo J. Barrientos
2013 Abel Hernandez-Guerrero	
2014 Nael Barakat	
2015 Carlos L. Lasarte V	
2016 Luciano Castillo	

## **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	1995 James R. Farr	2013 Sidney A. Bernsen
1978 Leonard P. Zick	1996 Guy A. Arlotto	2014 James W. Coaker
1979 Joseph F. Sebald	1997 Spencer H. Bush	2015 James A. Thomas
1980 George F. Habach	1998 Robert L. Dick	2016 Bernard E. Hrubala
1981 Roy P. Trowbridge	1999 Domenic A. Canonico	2017 Paul D. Edwards
1982 James W. Murdock	2000 Richard E. Feigel	2018 Richard William Barnes
1983 Walter L. Harding	2001 Lawrence J. Chockie	2019 Michael Merker
1984 Melvin R. Green	2002 Donald R. Frikken	2020 Urey R. Miller
1985 Paul M. Brister	2003 James A. Perry	2021 Walter J. Sperko
1986 William E. Cooper	2004 Edward A. Donoghue	
1987 Jack B. Levy	2005 James H. Turner, Jr.	
1988 John H. Fernandes	2006 J. Robert Sims, Jr.	
1989 Howard F. Dobel	2007 Guido G. Karcher	
1990 Robert J. Bosnak	2008 Kenneth R. Balkey	
1991 Arthur R. Machell, Jr.	2009 Louis E. Hayden, Jr.	
1992 Walter R. Mikesell, Jr.	2010 June Ling	
1993 Wendell P. Johnson	2011 Thomas P. Pastor	
1994 Oscar J. Fisher	2012 Mohinder L. Nayyar	

## 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 20<sup>th</sup> century in the field of manufacturing engineering, not only in the United States but internationally.

### **MILTON C. SHAW MANUFACTURING RESEARCH MEDALISTS**

2011 Tetsutaro Hosni	2019 Srinivasan Chandrasekar
2012 Kornel F. Ehmann	2020 Jian Cao
2013 I.S. Jawahir	
2014 Albert Shih	
2015 Y. Lawrence Yao	
2016 Steven Y. Liang	
2017 Shaochen Chen	
2018 Ming C. Leu	

## 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	2005 Theodore Nicholas
1976 Evan Albert Davis	2006 Richard M. Christensen
1977 George R. Irwin	2007 Huseyin Sehitoglu
1978 Frank A. McClintock	2008 Zdeněk P. Bažant
1979 Louis F. Coffin, Jr.	2009 Lambert Ben Freund
1980 Michael J. Manjoine	2010 Albert S. Kobayashi
1981 S. Stanford Manson	2011 Subra Suresh
1982 Iain Finnie	2012 Satya N. Atluri
1983 Arthur J. McEvily, Jr.	2013 Tsu-Wei Chou
1984 Thomas J. Dolan	2014 L. Catherine Brinson
1985 Sumio Yukawa	2015 Huajian Gao
1986 William F. Brown, Jr.	2016 Yonggang Huang
1987 Erhard Krempl	2017 John A. Rogers
1988 Herbert T. Corten	2018 George M. Pharr
1990 Stephen D. Antolovich	2019 Ellen M. Arruda
1991 John W. Hutchinson	2020 Frank Zok
1992 George J. Dvorak	2021 Michael Thouless
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	

## **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	2020 John Rogers
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	2016 Nathaniel D. Taylor
1996 Robert E. Lund	2017 Caitlin Correll
1997 Jeff A. Gessaman	2018 Michael P. Brundage
1999 Connie J. Buynacek	2019 Lee Clemon
2000 John T. Maine	2020 Simon C. Pun
2002 Susan M. Shumate	2021 Nicole Salloum
2003 Kenneth P. Home	
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	

## **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	2002 Jonathan A. Amory	Trinity College
1957 George M. Reynolds	Northwestern University	2003 Jill C. Anderson	Boston University
1958 Harry Hollinghaus	University of Utah	2004 Sarah Plymale	LeTourneau University
1959 James S. Kishi	University of Texas	2005 Sara Coulthard	United States Naval Academy
1960 Joseph W. Lindsey	University of Utah	2006 Stephen Hart	Ohio State University
1961 Joseph J. Marino	University of Connecticut	2007 Russell Aldridge	Brigham Young University
1962 Jay S. Fein	Rutgers University	2008 Joy Davis	Wright State University
1963 Walter Clark Dean II	Lehigh University	2009 Matthew Hollis	Cedarville University
1964 Robert J. Arnzen	Washington University/St. Louis	2010 Maxim Budyansky	University of Connecticut
1965 Joseph P. Collins	University of Wisconsin	2011 Allison Johnson	University of Tulsa
1966 John A. Leo III	Auburn University	2012 Brian Dutra	Western New England University
1967 William E. Hughes	Brigham Young University	2013 Zachary Young	Cedarville 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. Schlagen	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		

**OLD GUARD – 2nd PRIZE RECIPIENTS**

1982 John I. Macy	University of Kansas	2013 Jerry Wang	Yale University
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 Roche 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 Toumeau University		
2000 Paul Hvass	Le Toumeau 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		

**OLD GUARD – 3rd PRIZE RECIPIENTS**

1982 Douglas R. Watson	San Diego State University	2008 Brian Wilks	Texas A&M University
1983 Joseph R. Olivier	Tulane University	2009 Alex Scott	Loughborough University, UK
1984 Daniel B. Grandmont	Western New England College	2010 Caroline Scheck	University of Maryland
1985 Brian D. Berthold	University of New Mexico	2011 Sirko Bartholomay	ISAE-Toulouse, France
1986 Daniel M. Browning	Oregon State University	2012 Alex Russomanno	University of Virginia
1987 Michael L. Hoskins	California State University/Chico	2013 Thomas Larson	University of Washington
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 Gaudins	Seattle University		
2006 John Souza	University of NC, Charlotte		
2007 Stephen T. Clark	Duke University		

### **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. Kurfiman	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 recognizes an individual who has contributed to the enhancement of standardization of ASME Standards and Engineering Services in any of the following areas: Aerospace and Advanced Engineering Drawings; Plumbing Materials and Equipment; Screw Threads; Tools (machine, cutting and hand); Fasteners (e.g., bolts, nuts, rivets, screws, washers); Chains, Attachments and Sprockets for Power Transmission & Conveying; Nominal Wrought Pipe Sizes and Wall Thicknesses; Pressure and Temperature Instruments & Accessories; Classification & Designation of Surface Qualities; Gage Blanks; Chemical Standard Pumps; Dimensional Metrology; Bioprinters; Industrial System Energy Assessment; Overhead Hoists; Manufacturing and Advanced Manufacturing; Model Based Enterprise; Measurement of Fluid Flow in Closed Conduits; Mobile Unmanned Systems; Power Plant Reliability, Availability, and Performance; Steel Stacks; Thermal Medicine; Verification and Validation and Uncertainty Qualification in Computational Modeling and Simulation; Engineering Product Definition and Related Documentation Practices

The award was established in 2007 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	2018 Julius A. Ballanco
2009 Jayaraman Raja	2019 Christopher J. Freitas
2010 Archie R. Anderson	2020 Mark C. Malburg
2011 Sally A. Remedios	2021 A. Richard Emmerson
2012 Frederick G. Parsons	2022 Ken Burkhardt
2013 Robert J. DeBoom	
2014 Brian Parry	
2015 Shabbir M. Rawalpindiwala	
2016 Frank Bakos	
2017 Thomas Charlton, Jr.	

## 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	2005 Adnan Akay	2021 David R. Dowling
1990 Lothar Cremer	2006 Cyril M. Harris	
1991 Alan Powell	2007 Jerry H. Ginsberg	
1992 Miguel C. Junger	2009 Earl G. Williams	
1993 David Crighton	2011 Mardi C. Hastings	
1994 Eric E. Ungar	2012 Theodore M. Farabee	
1995 Allan D. Pierce	2013 Richard H. Lyon	
1996 Maurice M. Sevik	2014 Andrew N. Norris	
1997 John E. F. Williams	2015 David T. Blackstock	
2000 Michael S. Howe	2016 Patricia Davies	
2001 Gary H. Koopmann	2017 Malcolm Crocker	
2002 Ira Dyer	2018 Sean F. Wu	
2003 David Feit	2019 Karl Grosh	
2004 Leo L. Beranek	2020 J. Stuart Bolton	

## 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	2003 Jeffrey R. Friedman
William G. McLean	2005 Samuel J. Korellis
1985 James W. Murdock	2006 John W. Siegmund
1986 John H. Fernandes	2008 Joseph W. Mitlon
1987 P.H. "Pete" Knowlton, Jr.	2009 Steven P. Nuspl
1988 Charles B. Scharp	2010 Gordon J. Gerber
1989 Frederick H. Light	2011 W. Cary Campbell
1990 Karl G. Grothues	2012 Paul G. Albert
1991 Robert Jorgensen	2013 Patrick M. McHale
1992 Joseph S. Davis, Jr	2014 W. Glenn Steele, Jr.
1993 Philip M. Gerhart	2015 Thomas C. Heil
1995 Silas L. Morse	2016 Matthew J. Dooley
1996 Ronald L. Bannister	2017 Thomas K. Kirkpatrick
1997 Norman R. Deming	2018 Michael P. McHale
1998 David R. Keyser	2019 Steven A. Scavuzzo
1999 Roy P. Allen	2020 William Wood
2000 John C. Westcott	2021 Thomas C. Wheelock
2001 Ronald H. Dieck	
2002 John M. Burns	

## 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	1959 Donald F. Hays	1978 David A. Peters	2003 Bogdan I. Epureanu
1939 John Yellot, Jr.	1960 George Hatsopoulos	1980 Doyle D. Knight	2004 Kenneth A. Gall
1940 George A. Hawkins	1961 Ernest T. Selig	1982 Pol D. Spanos	2006 Nicholas Fang
1941 R. Hosmer Norris	1962 E. Bruce Lee	1984 Michael R. Muller	2009 A. John Hart
1942 John T. Rettaliata	1963 Herbert Richardson	1985 Wing Kam Liu	2010 David L. Burris
1943-46 No award due to war	1964 Richard L. Peskin	1986 Dimos Poulidakos	2011 David Saintillan
1947 David Cochrane	1965 John Bollinger	1987 David L. McDowell	2012 Amos Winter
1948 Walter G. Vincenti	1966 Jason R. Lemon	1988 Mark F. Hamilton	2013 Randy Ewoldt
1949 Philip S. Myers	1967 William O'Donnell	1989 Steven M. Wilson	2014 Ibrahim T. Ozbolat
1950 Arthur P. Adamson	1968 Randall F. Barron	1990 Dionissios N. Assanis	2015 Neil P Dasgupta
1951 Warren M. Rohsenow	1969 Henry K. Newhall	1991 Yves H. Berthelot	2016 David Henann
1952 Robert L. O'Brien	1970 Richard E. Barrett	1993 Melany L. Hunt	2017 Shannon K. Yee
1953 Merle Baker	1971 James R. Rice	1994 Zhigang Suo	2018 Nenad Miljkovic
1954 Emmett E. Day	1972 John F. Stephens III	1995 Thomas R. Kurfess	2019 Jesse Capecelatro
1955 Robert C. Dean, Jr	1973 Christian E.G. Prziembel	1996 Gregory S. Chirikjian	2020 David Kwabi
1956 John A. Clark	1974 Jace W Nunziato	1998 Wei Chen	2021 Yangying Zhu
1957 Patrick McDonald, Jr.	1975 Ted B. Belytschko	1999 Margaret S. Wooldridge	
1958 Allison E. Simons	John S. Walker	2000 Connie J. Buynacek	
	1977 Richard E. Lovejoy	2002 Assimina A. Pelegri	

## 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	1997 Sir John H. Horlock	2022 Timothy C. Lieuwen
1973 John W. Sawyer	1998 Donald W. Bahr	
1974 Waheeb Rizk	1999 Donald E. Bentley	
1975 Bruce O. Buckland	2000 Martin C. Hemsworth	
1976 Curt Keller	2001 Max Bentele	
1977 Alexander L. London	2002 Philip C. Ruffles	
1978 Sir Frank Whittle	2003 Sigmar Wittig	
1979 Sam B. Williams	2004 Herb I. H. Saravanamuttoo	
1980 Ralph L. Boyer	2005 Edward M. Greitzer	
1981 Thomas E. Stott, Jr.	2006 Erio Benvenuti	
1982 R. Noel Penny	2007 John Douglas Denton	
1983 Sven-Olof Kronogard	2008 Theodore H. Okiishi	
1984 Arthur H. Lefebvre	2009 Michael G. Dunn	
1985 Anselm Franz	2010 Herbert Jericha	
1986 Elvie L. Smith	2011 Dilip R. Ballal	
1987 Leroy H. Smith, Jr.	2012 David C. Wisler	
1988 Bernard L. Koff	2013 Anthony J. Strazisar	
1989 Edward S. Wright	2014 Reza S. Abhari	
1990 Hans J.P. von Ohain	2015 Lee S. Langston	
1991 Gerhard Neumann	2016 Nicholas Cumpsty	
1992 William R. Hawthorne	2017 Alan H. Epstein	
1993 Arthur J. Wennerstrom	2018 Aspi R. Wadia	
1994 Brian H. Rowe	2019 Om P. Sharma	
1995 Geoffrey L. Wilde	2020 Sunao Aoki	
1996 Donald D. Hill	2021 Robert E. Kielb	

## **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	1999 Edward Wenk, Jr.	2021 Burt Rutan
1975 Walter Sullivan	2000 Barry I. Hyman	2022 Aprille J. Ericsson
1977 Robert C. Seamans, Jr.	2001 N. Jan Davis	
1978 David Perlman	2002 Dean Kamen	
1979 William D. Carey	2003 Vernon J. Ehlers	
1980 Melvin Kranzberg	2004 William A. Wulf	
1981 Carl Sagan	2005 Winfred Phillips	
1982 Samuel C. Florman	2006 Bernard Amadei	
1983 Tracy Kidder	2007 Roop L. Mahajan	
1984 Lee Iacocca	2008 Shirley Ann Jackson	
1985 David Dooling, Jr.	2009 Bonnie J. Dunbar	
1987 T. Lindsay Baker	2010 Charles M. Vest	
1988 Cong. Donald L. Ritter	2011 Ioannis N. Miaoulis	
1989 John H. Lienhard	2012 William S. Nye	
1990 Jeremy Bernstein	2013 G. Wayne Clough	
1991 Henry J. Petroski	2014 Adam J. Hart-Davis	
1992 Frank Kreith	2015 Freeman A. Hrabowski III	
1993 Mary Lowe Good	2016 James J. Duderstadt	
1995 John Noble Wilford	2017 Adrian Bejan	
1996 Norman R. Augustine	2018 Gwynne Shotwell	
1997 Cong. George E. Brown, Jr.	2019 Charles F. Bolden	
1998 Paul B. MacCready	2020 William S. Hammack	

## **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  
 2020 James Truchard  
 2021 Shuji Nakamura

## 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	2015 Monika Ivantysynova
2008 Clifford R. Burrows	2016 Kim A. Stelson
2009 Jan Ove Palmberg	2017 Werner Dieter
2010 Yongxiang Lu	2018 Luca G. Zarotti
2011 Richard T. Burton	2019 Peter A.J. Achten
2012 Siegfried Helduser	2020 Shinichi Yokota
2013 Wayne J. Book	2021 Huayong Yang
2014 Hubertus J. Murrenhoff	

## 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 farsseeing 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	2010 Ares J. Rosakis	2019 Yonggang Huang
2002 Elias P. Gyftopoulos	2011 Francis C. Moon, Jr.	2020 Andrew Alleyne
2003 Yogesh Jaluria	2012 Zhigang Suo	2021 M. Cynthia Hipwell
2004 Bharat Bhushan	2013 John A. Rogers	
2005 Savio L-Y. Woo	2014 Ken P. Chong	
2006 Sia Nemat-Nasser	2015 Horacio D. Espinosa	
2007 Wing Kam Liu	2016 Romesh C. Batra	
2008 Vijay K. Dhir	2017 Mohammed A. Zikry	
2009 Huajian Gao	2018 Guruswami Ravichandran	

### **ROBERT HENRY THURSTON LECTURE AWARD RECIPIENTS (DIVISIONAL LEVEL)**

1969 Jacob Ackeret	1985 Yuan-Cheng B. Fung
1970 Jacob P. Den Hartog	1986 Daniel C. Drucker
1971 Milton C. Shaw	1987 Simon Ostrach
1972 George F. Carrier	1988 Stephen H. Crandal.
1973 Henry M. Paynter	1989 Stephen J. Kline
1974 Robert W. Emmons	1990 Jack S. Kilby
1975 Myron Tribus	1991 Frank Kreith
1976 Chauncey Starr	1992 John H. Lienhard
1977 Robert C. Dean, Jr.	1993 Chang-Lin Tien
1978 Allen F. Rhodes	1994 Robert M. Nerem
1979 W. Dale Compton	1995 Paul Cooper
1980 Milton S. Plesset	1996 Don P. Giddens
1981 John Erik Jonsson	1997 Raymond Viskanta
1982 Hans M. Mark	1998 Van C. Mow
1983 Ernst R.G. Eckert	1999 Adrian Bejan
1984 Robert A. Frosch	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  
 2020 Dawn Elliott  
 2021 Maury L. Hull  
 2022 Michele J. Grimm

### 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	1997 Thomas B. Sheridan
1969 Nathaniel B. Nichols	1996 George D. Zames
1970 John R. Ragazzini	1998 David G. Luenberger
1971 Charles Stark Draper	1999 Yu-Chi Ho
1972 Albert J. Williams, Jr.	2000 Ioan D. Landau
1973 Clesson E. Mason	2002 Masayoshi Tomizuka
1974 Herbert W. Ziebolz	2003 Vadim Utkin
1975 Hendrik W. Bode	2004 Alistair MacFarlane
Harry Nyquist	2005 Roger W. Brockett
1976 Rudolf Emil Kalman	2006 J. Karl Hedrick
1977 Gordon S. Brown	2007 Suguru Arimoto
Harold L. Hazen	2008 A. Galip Ulsoy
1978 Yasundo Takahashi	2009 Neville J. Hogan
1979 Henry M. Paynter	2010 Rolf Isermann
1980 Arthur E. Bryson, Jr.	2011 Haruhiko H. Asada
1981 Shih-Ying Lee	2012 Mathukumalli Vidyasagar
1982 Bernard Friedland	2013 Graham C. Goodwin
1983 J. Lowen Shearer	2014 Robert R. Bitmead
1984 Herbert H. Richardson	2015 Manfred Morari
1985 Karl J. Astrom	2016 Jean-Jacques Slotine
1986 Eliahu I. Jury	2017 Miroslav Krstic
1987 Walter R. Evans	2018 Roberto Horowitz
1988 Robert H. Cannon, Jr.	2019 Huei Peng
1989 Jaakov Z. Tsytkin	2020 Mark W. Spong
1990 Harold Chestnut	2021 Sosale Shankara Sastry
1991 John G. Truxal	
1992 Issac M. Horowitz	
1993 Lotfi A. Zadeh	
1994 Howard H. Rosenbrock	
1995 George Leitmann	

## **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	2014 Kevin Craig
2002 Kenneth K. Waldron	2015 Alice M. Agogino
2003 Woodie C. Flowers	2016 Kathryn W. Jablokow
2004 Clive L. Dym	2017 Gül E. Okudan Kremer
2005 Gary L. Kinzel	2018 Alexander H. Slocum
2006 John S. Lamancusa	2019 Janet K. Allen
2007 Panos Y. Papalambros	2020 Jonathan Cagan
2008 Kosuke Ishii	2021 Timothy W. Simpson
2010 Sridhar Kota	
2011 Farrokh Mistree	
2012 David R. Wallace	
2013 Douglass J. Wilde	

## **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	2011 William T. Springer
1981 Gunther P. Eschenbrenner	2012 M.K. Au-Yang
1982 Irwin Berman	2013 William J. Bees
1983 William E. Cooper	2014 Arthur G. Ware
1984 Adolph O. Schaefer	2015 L. Ike Ezekoye
1985 John F. Harvey	2016 Artin Dermenjian
1986 Everett C. Rodabaugh	2017 Mahendra D. Rana
1987 David H. Pai	2018 Mordechai Perl
1988 Michael J. Manjoine	2019 Young W. Kwon
1989 Pedro V. Marcal	2020 David L. Rudland
1990 Robert J. Cepluch	2021 Poh-Sang Lam
1991 James R. Farr	2022 Hardayal S. Mehta
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 Shoen-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	

## **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	2003 Albert J. Saxer	2018 James E. Richardson
1988 Oscar J. Fisher	2004 Robert N. Rogers	2019 Martin P. Schroeder
1989 William J. Stuber	2005 David L. Steel	2020 Barry Blackaby
1990 Oswald S. Carliss	2006 Herschell E. Godwin, Jr.	2021 D. Yogi Goswami
1991 Clyde A. Cobb	2007 Norman C. Hargreaves	
1992 Edward A. Donoghue	2008 Louis Bialy	
1993 Robert L. Seymour	2009 Michael C. Polagye	
1994 James D. Schell	2010 James W. Coaker	
1995 Zack R. McCain	2011 Daniel N. Wolff	
1996 Robert R. Reisinger	2012 David Duerr	
1997 George W. Gibson	2013 Andrew P. Juhasz	
1998 George R. Strakosch	2014 Robert Bolen	
2000 William H. Axtman	2015 Bradley D. Closson	
2001 Andrew R. Toth	2016 Michael Mills	
2002 Paul S. Zorich	2017 David McColl	

## **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 TRANSLATIONAL BIOMECHANICS MEDALISTS**

2016 B. Barry Lieber	2021 Danny Bluestein
2017 Arthur Erdman	2002 Zong-Ming Li
2018 Kyriacos A. Athanasiou	
2019 Rita M. Patterson	
2020 Mehmet Toner	

## **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.

The award was established by the by the Materials Division in 2008 and operated as a division award until 2012 when it was elevated to a Society award.

### **SIA NEMAT-NASSER EARLY CAREER AWARD RECIPIENTS**

2012 Harold S. Park	2016 Lijie G. Zhang	2020 Baoxing Xu
2013 Thao D. Nguyen	2017 Yashashree Kulkarni	2021 Yuhang Hu
Ting Zhu	2018 Tak-Sing Wong	
2014 Kevin T. Turner	Yihui Zhang	
2015 Yong Zhu	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	2001 Robert C. Stempel	2017 John E. Dec
1985 Shoichi Furuhashi	2002 John H. Johnson	2018 Ashwani K. Gupta
1986 Lloyd L. Withrow	2003 Robert F. Sawyer	2019 Masayoshi Tomizuka
1987 Felix Wankel	2004 Rolf D. Reitz	2020 Asad M. Madni
1988 Arthur F. McLean	2005 Barry J. Cooper	
1989 Shunichi Ohigashi	2006 David E. Foster	
1990 Charles M. Heinen	2007 Wallace R. Wade	
1991 Hans C. List	2008 Robin Stuart Sharp	
1992 Hiroyuki Hiroyasu	2009 David F. Merrion	
1993 Phillip S. Myers	2010 Thomas W. Asmus	
1994 James Ellis Hall	2011 John J. Mooney	
1995 Joseph M. Juran	2012 Priyaranjan Prasad	
1996 Karl J. Springer	2013 John C. Wall	
1997 Jack D. Benson	2014 Thomas Morel	
1999 John B. Heywood	2015 Thomas D. Gillespie	
2000 Franz F. Pischinger	2016 Bahram Khalighi	

## 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	1967 Ira G. Hedrick	1985 Kurt H. Hohenemser	2007 Earl H. Dowell
1932 Paul Litchfield	1968 George S. Moore	1986 Bruce McCandless II	2009 Paul Bevilacqua
1935 Will Rogers (posthumously)	1969 G. Merritt Preston	1987 Elbert L. Rutan	2011 Abraham Karem
1938 James H. Doolittle	1970 Clarence L. Johnson	1988 Edward H. Heinemann	2012 William M. Shepherd
1941 John E. Younger	1971 Ralph L. Creel	1990 Charles Feltz	2013 David A. Peters
1944 George W. Lewis	1972 Neil A. Armstrong	1992 Holt Ashley	2015 Dewey H. Hodges
1947 John E. Northrup	1973 John F. Yardley	1993 Charles F. Tiffany	2016 Inderjit Chopra
1950 Reinout P. Kroon	1974 Abe Silverstein	1994 Ben R. Rich	2017 Charbel Farhat
1954 Arthur E. Raymond	1977 George D. McLean	1995 Antony Jameson	2018 Stephen P. Engelstad
1955 Ralph S. Damon	1978 Paul B. MacCready	1996 Robert G. Loewy	2019 Kevin G. Bowcutt
1958 George S. Schairer	1979 Sir Freddie Laker	1997 John W. Lincoln	2021 Darold B. Cummings
1961 Samuel K. Hoffman	1979 Sir Freddie Laker	1998 Charles H. Kaman	
1962 Robert H. Widmer	1980 Michael Collins	2000 John C. Houbolt	
1963 Frederick C. Crawford	1981 Edgar M. Cortright, Jr.	2001 Sheila E. Widnall	
1964 Robert R. Gilruth	1982 Frank N. Piasecki	2002 Thomas J. Kelly	
1965 William H. Pickering	1983 John W. Young	2003 Peretz P. Friedmann	
1966 Christopher C. Kraft, Jr	1984 Charles S. Draper	2005 Robert H. Liebeck	

## **THOMAS K. CAUGH**Error! Reference source not found.**EY DYNAMICS MEDAL**

The Thomas K. Caughey Dynamics Medal is conferred in recognition of an individual who has made significant contributions to the field of nonlinear dynamics through practice, research, teaching and/or outstanding leadership.

The medal which honors, Dr. Thomas K. Caughey, and commemorates his contributions to research and to the society was established by the Applied Mechanics Division in 2008, and operated as a division award until 2020 when it was elevated to a Society award.

### **THOMAS K. CAUGHEY DYNAMICS MEDALISTS**

2021 Michael P. Païdoussis

## **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	2008 Kyriacos A. Athanasiou
2001 Alexander M. Gorlov	2009 Alex J. Severinsky
2002 Hooshang Heshmat	2010 Jyotirmoy Mazumder
2003 John N. Basic, Sr.	2012 Vipin Kumar
2004 Faydor L. Litvin	2013 Moshe Shoham
2005 Ching-Pang Lee	2015 Andy Walker
2006 Charles A. Garris	2020 Shorya Atwar
2007 Norman R. McCombs	

## 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	1985 Eli Stenberg	2015 Michael Ortiz
1958 Arpad L. Nadai	1986 George R. Irwin	2016 Ray Ogden
Sir Geoffrey Taylor	1987 Ronald S. Rivlin	2017 Viggo Tvergaard
Theodore von Karman	1988 George K. Batchelor	2018 Ares J. Rosakis
1959 Sir Richard Southwell	1989 Bernard Budiansky	2019 Junuthula N. Reddy
1960 Cornelius B. Biezano	1990 Stephen H. Crandall	2020 Mary C. Boyce
Richard Grammel	1991 Yuan-Cheng B. Fung	2021 Huajian Gao
1961 James N. Goodier	1992 Jan D. Achenbach	
1962 Maurice A. Biot	1993 John L. Lumley	
1963 Michael James Lighthill	1994 James R. Rice	
1964 Raymond D. Mindlin	1995 Daniel D. Joseph	
1965 Sydney Goldstein	1996 J. Tinsley Oden	
1966 William Prager	1997 John R. Willis	
1967 Hillel Poritsky	1998 Olgierd C. Zienkiewicz	
1968 Warner T. Koiter	1999 Anatol Roshko	
1969 Jakob Ackeret	2000 Rodney J. Clifton	
1970 James J. Stoker	2001 Ted Belytschko	
1971 Howard W. Emmons	2002 John W. Hutchinson	
1972 Jacob P. Den Hartog	2003 Lambert B. Freund	
1973 Eric Reissner	2004 Morton E. Gurtin	
1974 Albert E. Green	2005 Grigory Isaakovich Barenblatt	
1975 Chia-Chiao Lin	2006 Kenneth L. Johnson	
1976 Erastus H. Lee	2007 Thomas J.R. Hughes	
1977 John D. Eshelby	2008 Sia Nemat-Nasser	
1978 George F. Carrier	2009 Zdeněk P. Bažant	
1979 Jerald L. Ericksen	2010 Wolfgang Knauss	
1980 Paul M. Naghdi	2011 Alan Needleman	
1981 John H. Argyris	2012 Subra Suresh	
1982 John W. Miles	2013 Richard M. Christensen	
1983 Daniel C. Drucker	2014 Robert M. McMeeking	
1984 Joseph B. Keller		

## 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	2013 Jeffrey A. Weiss	2018 Jeffrey W. Holmes
2006 Robert L. Sah	2014 Christopher R. Jacobs	2019 Tony Jun Huang
2007 Lori A. Setton	2015 Dawn M. Elliott	2020 Stavros Thomopoulos
2008 Scott L. Delp	2016 Beth A. Winkelstein	2021 Rafael V. Davalos
2012 John Bischof	2017 Richard R. Neptune	2022 Robert L. Mauck

## **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	2010 Nicolas Triantafyllidis
1998 Viggo Tvergaard	2011 James G. Simmonds
1999 Charles R. Steele	2012 Erik Van der Giessen
2000 Giulio Maier	2013 Norman A. Fleck
2001 Wolfgang G. Knauss	2014 Guruswami Ravichandran
2002 James K. Knowles	2015 Kaushik Bhattacharya
2003 David R.J. Owen	2016 Pedro Ponte Castañeda
2004 Zenon Mroz	2017 Wei Yang
2005 Raymond W. Ogden	2018 Muhammed Taher A. Saif
2006 Pierre Suquet	2019 Kalia T. Ramesh
2007 Chin-Teh Sun	2020 Anthony M. Waas
2008 Richard D. James	2021 Gerhard A. Holzapfel
2009 Stelios Kyriakides	

### **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  
 2021 Richard R. Stevenson

### **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	2013 John W. Sutherland
1992 Bei Tse Chao	2014 Placid M. Ferreira
Kenneth J. Trigger	2015 Elijah Kannatey-Asibu Jr.
1993 Nam P. Suh	2016 Yusuf Altintas
1995 C. Kumar N. Patel	2018 K. Scott Smith
1996 Charles W. Hull	2019 Steven J. Skerlos
1997 J. "George" Tlusty	2020 Ahmed Busnaina
1998 Taylan Altan	2021 Albert Shih
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 Chunghong R. Liu	
2009 Jun Ni	
2010 David A. Dornfeld	
2011 S.V. Sreenivasan	
2012 S. Jack Hu	

### Y.C. FUNG 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	2014 W. David Merryman
2000 Farshid Guilak	2015 Adam J. Engler
2001 David F. Meaney	2016 Triantafyllos Stylianopoulos
2002 Jeffrey A. Weiss	2017 Kristin M. Myers
2003 Sangeeta N. Bhatia	2018 Spencer P. Lake
2004 Richard E. Debski	2019 Grace O'Connell
2005 Jeffrey W. Holmes	2020 Matthew B. Fisher
2006 Beth A. Winkelstein	2021 Kristin S. Miller
2007 Stavros Thomopoulos	2022 Zhenpeng Qin
2008 Gabriel A. Silva	
2009 Robert L. Mauck	
2010 Matthew J. Gounis	
2011 Ali Khademhosseini	
2012 Marissa N. Rylander	
2013 Jonathan P. Vande Geest	

### YERAM S. TOULOUKIAN AWARD

The 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	2018 Alfred Leipertz
2003 Raymond E. Taylor	Joern I. Siepmann
Wolfgang Wagner	2021 Carolyn A. Koh
2006 Johanna Levelt Sengers	Zhuomin Zhang
2009 Andreas Mandelis	
Koichi Watanabe	
2012 Michael R. Moldover	
Peter T. Cummings	
2015 Mikhail A. Anisimov	
David G. Cahill	

## LITERATURE AWARDS

### ARTHUR L. WILLISTON MEDAL

The Arthur L. Williston Medal recognizes an engineering student or recent graduate for “fostering civic service.” 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	1982 John H. Pilarski	2005 Valerie Stringer
1957 Walter P. Logeman	1983 Max R. Casada	2006 Tyler E. Schnug
1959 Rowe A. Girardini	1984 Eddie E. Ferrer	2007 Michael Steel
1960 Marc Fishbein	1985 Henry M. Quillian III	2008 Raymond M. Meyer
1961 James R. Stewart	1986 Stephen J. Schoonmaker	2009 Michael Simmons
1962 Charles H. Recht	1987 Thomas C. Davis	2010 Andrew Neal Rister
1964 Kenneth E. Gawronski	1988 Brian T. Reisenauer	2011 Prabal Goyal
1965 LaRoux K. Gillespie	1989 Christian L. Struble	2012 Kyle C. Picha
1966 Eddie R. Howe	1990 Robert J. Stehlik	2013 Cassandra N. Hawley
1967 L. Thomas Cooper III	1991 Matt Pruszynski	2014 Mavila M. Miller
1968 Frank A. Ralbovsky	1992 Sean L. Neilson	2015 Matthew D. Hill
1969 Arlo Fossum	1993 Neil G. Whitbeck	2016 Leong Ka Long Karen
1970 Steven H. Carlson	1994 Michael J. Zinngrabe	2017 Austin P. Kraus
1971 James A. Willms	1995 Daniel A. Fletcher	2018 Noah M. Purdy
1972 Dennis L. Sandberg	1996 Jeffrey M. Otto	2021 Vineet Vashi
1973 Frank H. Roubleau, Jr	1997 Laura R. Foster	
1974 James J. Callas	1998 Darrick A. Dean	
1976 Enud David Laska	1999 Matthew E. Myers	
1977 Harry W. Groot	2001 Amip Shah	
1978 Jitendra S. Goela	2002 Anne M. Hines	
1979 Steven E. Stephens	2003 David L. Damm	
1980 Charles S. Macaulay	2004 Marie H. Hoffman	

#### **SECOND PLACE**

1988 Michael E. Kennedy	2011 Nathaniel D. Taylor
1989 David A. Walker	2012 Daniel J. Hershman
1990 Randall W. Meinert	2013 James P. Crawford
1991 Kenneth Skoug III	2014 Bernard K. Witschen
1992 Gilroy S. Ames	2015 Tara Larkin
1993 Wade LaGrenade	2017 Joseph R.H. Schaadt
1994 Jeffrey Craig Morris	
1995 Connie J. Bleidorn	
1996 Che J. Barnes	
1997 Kenneth P. Home	
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	

#### **THIRD PLACE**

1988 John Ellenz	2015 Joseph R.H. Schaadt
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. Adjortolo	
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 Yuzanna Obinna	

## 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	1991 Eiji Usui Masami Masuko	2010 Dalong Gao Ugur Ersoy
1956 Orlan W. Boston William W. Gilbert	Akihiko Hirota Takahiro Shirakashi	Robin Stevenson Pei-Chung Wang
1957 Bei T. Chao Kenneth J. Trigger	Takeaki Kitagawa	2011 O. Burak Ozdoganlar Sinan Filiz
1958 S.A. Tobias Wilfred Fishwick	1992 Guangming Zhang Shiv G. Kapoor	2012 Rui Zhou Jian Cao
1960 B. Popper David W. Pessen	1993 Changsheng Guo Stephen Malkin	Kornel F. Ehmann Chun Xu
1961 Joseph R. Roubik	Fershid Engineer	2013 Yusuf Altintas Caner Ekşioglu
1962 W.A. Mohn	1994 David A. Stephenson	Zekai M. Kilic
1963 E.G. Thomsen A.G. MacDonald	1995 Jerzy Kozak Kamlakar P. Rajurkar	2014 Mingyang Li Lie Tang
1965 Robert S. Hahn	Bin Wei	Robert G. Landers Ming C. Leu
1967 J. Hopenfeld R.R. Cole	1996 William R.D. Wilson Tse-Chi Hsu	2017 Hai Trong Nguyen Hui Wang
1968 Kuo-King Wang Shien-Ming Wu	Xiubao Huang	Bruce L. Tai Jie Ren
Kazuaki Iwata	1997 William J. Endres Richard E. Devor	S. Jack Hu Albert J. Shih
1971 William P. Koster Louis J. Fritz	Shiv G. Kapoor	2018 Sripati Sah Numpon Mahayotsanun
1974 S.P. Loutrel N.H. Cook	1998 Shounak M. Athavale John S. Strenkowski	Michael Peshkin Jian Cao
1975 Sindre Holoyen C. Dan Mote, Jr.	John S. Strenkowski	Robert X. Gao
1980 Robert A. Thompson Subbiah Ramalingam	1999 Jamal Sheikh-Ahmad John A. Bailey	2019 Burak Sencer Shingo Tajima
John D. Watson	2000 Barney E. Klamecki	2020 ChaBum Lee
1981 Ranga Komanduri Robert H. Brown	2001 Woncheol Choi Thomas R. Kurfess	
1982 Nam P. Suh Bruce M. Kramer	2002 Charalabos C. Doumanidis Yong-Min Kwak	
1983 Richard E. DeVor William A. Kline	2003 Ihab Hanna Scott A. Hucker	
Igbal A. Shareef	Robin Stevenson Guoxian Xiao	
1984 Chunghorn R. Liu Moshe M. Barash	2004 Jose M. Hurtado Shreyes N. Melkote	
1985 Paul K. Wright	2005 Yong Huang Steven Y. Liang	
1986 David A. Dornfeld Elijah Kannatey-Asibu, Jr.	2006 Y. Lawrence Yao I. Cevdet Noyan	
1988 Betzalel Avitzur Rensen Wu	Wenwu Zhang	
Samuel H. Talbert	2007 Yung C. Shin Yinggang Tian	
Ye T. Chou	2008 Andrew E. Honegger Shiv G. Kapoor	
1989 Lucian Kops M. Helmi Attia	Richard E. Devor	
1990 Jiri Tlustý	2009 Robert J. Hocken Jimmie A. Miller	
	K. Scott Smith	
	Bethany A. Woody	

## 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	2007 Andrea Lazzaretto	2021 Mitra Sexton
1998 Andrea Lazzaretto	Andrea Toffolo	Matthew T. Schifano
George Tsatsaronis	2010 Noam Lior	Jesse Watjen
1999 Masaru Ishida	Na Zhang	
Takahiro Suzuki	2012 Michael R. von Spakovsky	
Masashi Yamamoto	Charles E. Smith	
2000 Anthony J. Bowman	2014 Ghassan J. Nicolas	
Richard A. Gaggioli	Mohammad Janbozorgi	
David Paulus, Jr.	Hameed Metghalchi	
David H. Richardson	2016 Sara Cosentino	
2001 Elias P. Gyftopoulos	Adriano Sciacovelli	
2002 Cristian Carraretto	Vittorio Verda	
Alberto Mirandola	2017 Luca Rivadossi	
Anna Stoppato	Gian P. Beretta	
2003 Luis M. Serra	2018 Andrea Toffolo	
Antonio Valero	Andrea Lazzaretto	
Vittorio Verda	Sergio Rech	
2004 Adrian Bejan	2019 John H. Lienhard V	
Sylvie Lorente	2020 Ting Wang	
	Henry A. Long	

## 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	1992 William A. Sirignano	2012 Pratap Vanka
Ronald F. Probststein	1994 David E. Stock	2014 Steven L. Ceccio
1974 Jack E. Cermak	1996 Kirti N. Ghia	2016 Goodarz Ahmadi
1976 William J. McCroskey	1998 Mohamed Gad-el-Hak	2017 S. Balachandar
1978 Benjamin Gebhart	2000 Yogesh Jaluria	2018 Ramesh K. Agarwal
1980 Edward M. Greitzer	2002 Efstathios E. Michaelides	2019 Upendra S. Rohatgi
1982 Simon Ostrach	2004 Gary S. Settles	2020 Alfredo Soldati
1984 A.K.M. Fazle Hussain	2006 Promode R. Bandyopadhyay	2021 Rajat Mittal
1986 John B. Heywood	2008 William K. George	2022 Tim Colonius
1988 Turgut Sarpkaya	Joseph C. Klewicki	
1990 Budugur Lakshminarayana	2010 Michael W. Reeks	

## 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	1992 S.R. Manwaring	2007 Timothy Rice
1965 J.S. Alford	David C. Wisler	David Bell
1966 Franklin O. Carta	1993 Joel M. Haynes	Gurnam Singh
1967 Arthur D. Bernstein	Gavin J. Hendricks	2008 Ronald S. Bunker
William H. Heiser	Alan H. Epstein	2009 Budimir Rosic
Charles M. Hevenor	1994 Edward M. Greitzer	Eric M. Curtis
1968 O.E. Balje	Daniel L. Gysling	John D. Denton
1969 Carlyle Reid	1995 Bruce P. Biederman	John P. Longley
1970 J.L. Kerrebrock	Craig J. Fischberg	2010 Martin N. Goodhand
Alojzy.A. Mikolajczak	Aaron J. Gleixner	Robert J. Miller
1971 D. Marchant	Charles R. LeJambre	2011 Christian Eichler
Harold A. Harmon	Chae M. Rhie	Georg Baumgartner
Alojzy.A. Mikolajczak	David A. Spear	Thomas Sattelmayer
1972 F.B. Metzger	Chad J. Yetka	2012 Graham Pullan
D.B. Hanson	Robert M. Zacharias	Anna M. Young
1973 John Moore	1996 Franz Joos	Ivor J. Day
1974 G.L. Commerford	Philipp Brunner	Edward M. Greitzer
Lynn E. Snyder	Burkhard Schulte-Werning	Zoltan S. Spakovszky
1975 Edward M. Greitzer	Khawar Syed	2013 Harika S. Kahveci
1976 J.P. Gostelow	Adnan Eroglu	Kevin R. Kirtley
1977 Ivor J. Day	1997 T.R. Camp	2014 Robert P. Grewe
Nicholas A. Cumpsty	Ivor J. Day	Robert J. Miller
Edward M. Greitzer	1998 Robert E. Kielb	Howard P. Hodson
1978 Frank J. Wiesner	Josef Panovsky	2015 Ho-On To
1979 Arthur Schaffler	1999 Robert C. Steele	Robert J. Miller
1980 Mark S. Darlow	Luke H. Cowell	2017 Ho-On To
Anthony J. Smalley	Steven M. Cannon	Robert J. Miller
Alexander G. Parkinson	Clifford E. Smith	2018 Svilen Savov
1981 G. Gordon Adkins, Jr.	2000 Thomas Sattelmayer	Nicholas Atkins
Leroy H. Smith, Jr.	2001 Frank Hummel	Sumiu Uchida
1982 K.V.L. Rao	2002 Ammar A. Al-Nahwi	2019 Christoph Brandstetter
Arthur H. Lefebvre	Samir A. Nayfeh	Heinz-Peter Schiffer
1983 Chunill Hah	James D. Paduano	Maximilian Jüngst
1984 Howard P. Hodson	2003 Lance L. Smith	2020 Bogdan C. Cernat
1985 Denis J. Doorley	Hasan Karim	Marek Pátý
Martin L.G. Oldfield	Marco J. Castaldi	Cis De Maesschalck
1986 Simon J. Gallimore	Shahrokh Etamad	Sergio Lavagnoli
Nicholas A. Cumpsty	William C. Pfefferle	2021 Masha Folk
1987 Leroy H. Smith, Jr.	Vivek K. Khanna	Robert J. Miller
1988 Roger L. Davis	Kenneth O. Smith	John D. Coull
David E. Hobbs	2004 Ivor J. Day	2022 Li He
Harris D. Weingold	Christopher Freeman	Tom Hickling
1989 Joel H. Wagner	Thomas Scarinci	
Bruce V. Johnson	2005 Ivor J. Day	
Thomas J. Hajek	Christopher Freeman	
1990 James H. Leylek	John C. Williams	
David C. Wisler	2006 Budimir Rosic	
1991 Ivor J. Day	John Douglas Denton	

## 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	1974 Lambert B. Freund
1916 L.B. McMillan	1976 G.D. Gupta
1919 E.D. Whalen	1977 Robert J. Hannemann
1921 S. Logan Kerr	1978 Maria Comninou
1922 R.H. Heilman	1979 Krishna C. Gupta
F.L. Kallam	1980 Bharat Bhushan
1923 S.S. Sanford	1984 Richard C. Benson
S. Crocker	1986 Steven W. Shaw
1924 R.H. Heilman	1988 David L. McDowell
1925 Gilbert Schaller	1990 Stephen E. Bechtel
1927 William M. Frame	1992 Jeffrey S. Marshall
1928 M.D. Aisenstein	1993 Mark T. Hanson
1929 Arthur M. Wahl	1995 J. Edward Colgate
1930 Ed S. Smith, Jr.	2018 Mary H. Foltz
1931 Montrose Drewry	Craig C. Kage
1932 Edmund M. Wagner	Casey P. Johnson
1933 Townsend Tinker	Arin M. Ellingson
1934 John Yellott, Jr.	2019 Grace D. O'Connell
1935 Stanley Mikiwa	Benjamin Werbner
1936 H.F. Mullikin, Jr.	Minhao Zhou
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	

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

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

## 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	1986 Ephraim M. Sparrow
1934 Ralph E. Flanders	1987 Jack P. Holman
1935 Stephen P. Timoshenko	1988 Richard M. Christensen
1936 Charles M. Allen	1989 Lawrence E. Malvern
1937 Clarence Hirshfeld	1990 J. Tinsley Oden
1938 Lawford H. Fry	1991 Bruno A. Boley
1939 Rupen Eksbergian	1992 Junuthula N. Reddy
1940 William Gregory	1993 Frank J. Rizzo
1941 Richard Southwell	1994 George Springer
1942 Fred H. Colvin	1995 Frank P. Incropera
1943 Igor I. Sikorsky	1996 Adrian Bejan
1944 Earle Buckingham	1997 Zdenek P. Bazant
1945 Joseph M. Juran	1998 Thomas J.R. Hughes
1947 Arpad L. Nadai	1999 Yogesh Jaluria
1948 Edward S. Cole	2000 Avram Bar-Cohen
1949 Fred B. Seely	2001 Budugur Lakshminarayana
1950 Orlan W. Boston	2002 Tsu-Wei Chou
1951 Jacob P. Den Hartog	2004 Ephraim Suhir
1952 Max Jacob	2006 James G. Simmonds
1953 William McAdams	2007 Portonovo S. Ayyaswamy
1954 Joseph Keenan	2008 Ashwani K. Gupta
1955 Howard S. Bean	2009 David G. Lilley
1956 J. Keith Louden	2012 János M. Beér
1957 William Prager	2013 Singiresu S. Rao
1958 Harold J. Rose	2014 Vigor Yang
1959 Daniel Glasstone	2015 John H. Lau
1960 Lloyd H. Donnell	2016 Isaac Elishakoff
1961 C.L.W. Trinks	2017 Michael P. Païdoussis
1962 Virgil M. Faires	2018 Martin Ostoja-Starzewski
1963 Frederick Morse	2019 Arun R. Srinivasa
1964 Oscar J. Horger	2020 Marco Amabili
1965 Ascher H. Shapiro	2021 Hanqing Jiang
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	

## 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	2010 Zbigniew M. Bzymek	University of Connecticut
1993 Muthukrishnan. Sathyamoorthy	Clarkson University	2011 Jay M. Samuel	University of Wisconsin-Madison
1994 Paul C. Lam	University of Akron	2012 Rick J. Couvillion	University of Arkansas
1995 Charles F. Reinholtz	Virginia Polytechnic Institute	2013 A. Richard Merz	Lafayette College
1996 Richard R. Johnson	North Carolina State University	2014 Antonios Kotsos	Drexel University
1997 Latif Jiji	City College of New York	2015 Selin Arslan	Lawrence Technological University
1998 Chittaranjan Sahay	State University of New York at Binghamton	2016 Kok-Keung Lo	The Hong Kong Polytechnic University
1999 Shirley T. Fleischmann	Grand Valley State University	2017 Nadir Yilmaz	Howard University
2000 Kenneth L. Gentili	Tacoma Community College	2019 Mohammad Mahinfalah	Milwaukee School of Engineering
2001 Abel Hernandez-Guerrero	University of Guanajuato at Salamanca	2020 Jason Ash	South Dakota School of Mines & Technology
2002 Massimo Capobianchi	Gonzaga University	2021 Charbel Bou-Mosleh	Notre Dame University-Louaize
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		

## 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		Society of Mining Engineering (SME)
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		National Science Foundation
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**

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

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 explain the importance of at least 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 explain the importance of at least five.

**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 one of the reference letters must be a member of ASME and no more than one should come from the nominee's organization.

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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 explain the importance of at least 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.

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