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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 20](#), gives details of all ASME awards. Table 1 on pages [6 through 17](#) gives an alphabetical listing of all ASME awards with condensed information concerning submission and consideration of nominations. Table 2 on pages [18 through 22](#) lists the Special Awards Committees. Beginning on [page 23](#), 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 [78 through 79](#). Finally, Section IV, on pages [80 through 84](#), 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."* ([By-Law 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, seventy-five 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), General Awards Committee (GAC), Staff, 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 [6 through 17](#), 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.

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 [18 through 22](#), lists the Special Award Committees and the technical activity or other activity responsible for manning each committee. Pages [23 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.

TABLE 1

**LISTING OF AWARDS**

| <b>Name of Award</b>  | <b>Requirements</b>  | <b>Form of Award</b>  | <b>Limitation(s)</b>   | <b>Nomination Deadline</b> | <b>Send To Special Award Committee (SAC)</b> | <b>Awarded By Board of Governors (BOG)/Committee on Honors (COH)/ General Awards Committee (GAC)</b> |
|---|--|---|--|----------------------------|--|--|
| ASME Medal<br>( <a href="#">Page 23</a> )                                     | Eminently distinguished engineering achievement  | \$15,000 Gold Medal Certificate<br>\$750 Expense Supplement   | None   | March 1                    | COH  | COH/BOG<br>March 1   |
| Adaptive Structures and Material Systems Award<br>( <a href="#">Page 24</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               | January 15                 | SAC  | COH<br>March 1   |
| Allan Kraus Thermal Management Medal<br>( <a href="#">Page 24</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<br>\$750 Expense Supplement  | None   | February 1                 | SAC  | COH<br>March 1   |
| Avram Bar-Cohen Memorial Award<br>( <a href="#">Page 24</a> )                 | Recognizes contributions to academic, research, and industrial communities in the broad field of heat transfer and related electronics, photonics, mechanics and packaging phenomena   | \$2000 Vermeil Medal Certificate<br>\$750 Expense Supplement  | None   | February 1                 | SAC  | COH<br>March 1   |
| Arthur L. Williston Medal<br>( <a href="#">Page 68</a> )                      | Recognizes an engineering student or recent graduate for “fostering civic service<br>See Current Contest Flyer:<br><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<br>\$750 Expense Supplement<br><br>2nd: \$500 Certificate<br><br>3rd: \$250 Certificate | Student Member or Member (graduated not more than 2 years), ASME sponsor | March 1                    | GAC  | COH<br>March 1   |
| Barnett-Uzgiris Product Safety Design Award<br>( <a href="#">Page 25</a> )    | Significant contributions to the safe design of products through teaching, research, and professional accomplishments  | \$1,000 Bronze Medal Certificate<br>\$750 Expense Supplement  | None   | February 1                 | SAC  | GAC/COH<br>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) |
|---|---|---|---|---------------------|---------------------------------------|--|
| Ben C. Sparks Medal<br><a href="#">(Page 25)</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<br>Bronze Medal<br>Certificate<br>\$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<br>October 1   |
| Bergles-Rohsenow Young Investigator Award in Heat Transfer<br><a href="#">(Page 26)</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<br>Bronze Medal<br>Certificate                            | Candidate under 36, with Ph.D. or equivalent degree in engineering  | October 1           | SAC                                   | GAC/COH<br>March 1   |
| Bernard F. Langer Nuclear Codes and Standards Award<br><a href="#">(Page 27)</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<br>Crystal Oracle<br>Certificate                          | None  | February 1          | SAC                                   | COH<br>March 1   |
| Blackall Machine Tool and Gage Award<br><a href="#">(Page 69)</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<br>Plaque   | Paper presented before ASME and/or published by ASME during the 2 calendar years immediately preceding the year of award  | December 15         | SAC                                   | GAC/COH<br>March 1   |
| Burt L. Newkirk Award<br><a href="#">(Page 28)</a>                                      | Notable contributions to tribology in research or development as established by papers accepted for publication   | \$1,000<br>Certificate  | Author under 40 and an ASME member at time of nomination  | February 1          | SAC                                   | GAC/COH<br>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<br>( <a href="#">Page 29</a> )           | Outstanding achievement in mechanical engineering 20 years or more following graduation<br><br>Special Nomination form required:<br><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<br>Certificate<br>\$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<br>March 20   |
| Charles T. Main Student Leadership Awards<br>( <a href="#">Pages 29--31</a> ) | Leadership and service qualities contributing to programs and operations of an ASME Student Section<br><br>Special Nomination form required:<br><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<br>Gold Medal<br>Certificate<br>\$750 Expense Supplement<br><br>2nd: \$2,000<br>Silver Medal<br>Certificate<br>Expense Supplement<br><br>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<br>March 1  |
| Daniel C. Drucker Medal<br>( <a href="#">Page 32</a> )                        | Distinguished contribution to the field of applied mechanics and mechanical engineering   | \$2,000<br>Bronze Medal<br>Certificate<br>\$750 Expense Supplement  | None   | September 15        | SAC                                   | COH<br>March 1  |
| Dedicated Service Award<br>( <a href="#">Page 77</a> )                        | Unusual dedicated voluntary service to the Society marked by outstanding performance, demonstrated effective leadership, prolonged and committed service, devotion, enthusiasm and faithfulness<br><br>Special Nomination form required:<br><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<br>Certificate<br>Lapel Pin  | Minimum of 10 years of service to ASME   | December 1          | Appropriate Society Officer           | Designated Service Area staff COH                             |
| DeVor-Kapoor Manufacturing Medal<br>( <a href="#">Page 32</a> )               | Recognizes an individual or a team of researchers for a body of impactful achievements in the field of manufacturing  | \$1,500<br>Bronze Medal<br>Certificate<br>\$750 Expense Supplement  | None   | February 1          | SAC                                   | COH<br>March 1  |
| Dixy Lee Ray Award<br>( <a href="#">Page 32</a> )                             | Significant achievements and contributions in environmental protection  | \$1,000<br>Bronze Medal<br>Certificate<br>\$750 Expense Supplement  | None   | January 15          | SAC                                   | COH<br>March 1  |
| Edward F. Obert Award<br>( <a href="#">Page 70</a> )                          | Outstanding paper on thermodynamics presented during the preceding 2 calendar years   | \$5,000<br>Certificate<br>\$750 Expense Supplement  | Must be written during preceding 2 years of Congress presentation  | March 1             | SAC                                   | COH<br>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<br>( <a href="#">Page 33</a> )      | For an individual who has rendered eminent service in increasing the value, importance and attractiveness of mechanical engineering education<br><br>Special Nomination form required:<br><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<br>Bronze Medal<br>Certificate<br>\$750 Expense<br>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<br>Oct 1   |
| Fluids Engineering Award<br>( <a href="#">Page 34</a> )   | 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  | \$1,000<br>Bronze Medal<br>Certificate   | None  | September 30                          | SAC     | GAC/COH<br>October 15  |
| Frank Kreith Energy Award<br>( <a href="#">Page 34</a> )  | Significant contributions to a secure energy future with particular emphasis on innovations in conservation and/or renewable energy   | Bronze Plaque<br>Certificate<br>\$750 Expense<br>Supplement  | None  | December 1                            | SAC     | COH<br>March 1   |
| Freeman Scholar Award<br>( <a href="#">Page 71</a> )      | Significant expertise in fluids engineering   | \$10,000<br>Certificate<br>\$750 Expense<br>Supplement   | None  | September 1                           | SAC     | GAC/COH<br>October 15  |
| Gas Turbine Award<br>( <a href="#">Page 72</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<br>Plaque  | None  | June 1                                | SAC     | GAC/COH<br>October 1   |
| George Westinghouse Medals<br>( <a href="#">Page 35</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   | Gold: \$1,500<br>Vermeil Medal<br>Certificate<br>\$750 Expense<br>Supplement<br><br>Silver: \$1000<br>Silver Medal<br>Certificate<br>\$750 Expense<br>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<br>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<br><a href="#">(Page 36)</a>           | The award honors engineering graduates for outstanding achievements in mechanical engineering between 10 to 20 years after graduation  | \$1,000 Certificate<br>\$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<br>March 20   |
| H.R. Lissner Medal<br><a href="#">(Page 36)</a>                        | Outstanding achievements in the field of bioengineering  | \$1,000 Bronze Medal Certificate<br>\$750 Expense Supplement               | Candidate must be an active member of the Bioengineering Division  | September 1         | SAC                                   | COH<br>October 15   |
| Heat Transfer Memorial Award<br><a href="#">(Page 37)</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<br>March 1  |
| Henry Hess Early Career Publication Award<br><a href="#">(Page 73)</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<br>\$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<br>March 1  |
| Henry Laurence Gantt Medal<br><a href="#">(Page 38)</a>                | Distinguished achievement in management and for service to the community   | \$1,000 Bronze Medal Certificate   | None   | February 1          | SAC                                   | COH<br>March 1  |
| Henry R. Worthington Medal<br><a href="#">(Page 38)</a>                | Eminent achievement in the field of pumping and machinery systems and concepts   | \$5,000 Bronze Medal Certificate<br>\$750 Expense Supplement               | None   | September 30        | SAC                                   | COH<br>October 15   |
| Holley Medal<br><a href="#">(Page 39)</a>                              | Unique act(s) of an engineering nature, accomplishing a timely public benefit  | \$1,000 Vermeil Medal Certificate<br>Lapel Pin                             | None   | March 1             | GAC                                   | GAC/COH<br>March 1  |
| Honorary Member<br><a href="#">(Page 40)</a>                           | Distinguished contributions to engineering, science, industry, research, public service, or other pursuits allied with and beneficial to the engineering profession  | Silver Medal Certificate<br>Lapel Pin<br>Badge<br>\$750 Expense Supplement | Must be an ASME Member.<br>No more than 5 honorees per year  | March 1             | COH                                   | COH/BOG<br>March 1  |
| Internal Combustion Engine Award<br><a href="#">(Page 41)</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<br>March 1  |

## LISTING OF AWARDS

| <b>Name of Award</b>  | <b>Requirements</b>  | <b>Form of Award</b>  | <b>Limitation(s)</b>   | <b>Nomination Deadline</b> | <b>Send To Special Award Committee (SAC)</b> | <b>Awarded By Board of Governors (BOG)/Committee on Honors (COH)/ General Awards Committee (GAC)</b> |
|---|--|---|--|----------------------------|--|--|
| Lakshmi Singh Early Career Leadership Award<br><a href="#">(Page 41)</a>      | For early-to-mid-career women engineers who have demonstrated considerable leadership in, commitment to, and continued service with ASME.  | \$3,000 Plaque, Certificate<br>Paid membership for life<br>\$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<br>March 1   |
| J.P. Den Hartog Award<br><a href="#">(Page 41)</a>                            | Lifetime contributions to the teaching and practice of vibration engineering   | \$3,000 Bronze Medal<br>Certificate   | None   | July 31<br>Even Years      | SAC  | COH<br>March 1   |
| J. Hall Taylor Medal<br><a href="#">(Page 42)</a>                             | Eminent achievement in ASME Codes and Standards for piping and pressure vessels  | \$1,000 Bronze Medal<br>Certificate   | None   | November 15                | SAC  | GAC/COH<br>March 1   |
| James Harry Potter Gold Medal<br><a href="#">(Page 43)</a>                    | Eminent achievement in the science of thermodynamics and its applications in mechanical engineering  | \$2,000 Vermeil Medal<br>Certificate  | None   | February 1                 | SAC  | COH<br>March 1   |
| James N. Landis Medal<br><a href="#">(Page 44)</a>                            | Outstanding personal performance related to designing, constructing, or managing the operation of major steam-powered electric stations using nuclear or fossil fuels.   | \$10,000 Bronze Medal<br>Certificate<br><br>\$750 Expense Supplement                | None   | February 1                 | SAC  | COH<br>March 1   |
| Johnson & Johnson Consumer Companies, Inc. Medal<br><a href="#">(Page 44)</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<br>Certificate<br><br>\$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<br>January 15  |
| Kate Gleason Award<br><a href="#">(Page 45)</a>                               | For the contribution of distinguished female leaders in the engineering profession   | \$2,000 Bronze Medal<br>Certificate<br>\$750 Expense Supplement                     | Only female engineers are eligible   | February 1                 | SAC  | COH<br>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) |
|---|--|---|--|----------------------------|---------------------------------------|---|
| M. Eugene Merchant Manufacturing Medal of ASME/SME<br><a href="#">(Page 45)</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)   |   | None   | February 1                 | SAC                                   | COH<br>March 1  |
| Machine Design Award<br><a href="#">(Page 46)</a>                               | Eminent achievement in machine design  | \$1,000<br>Plaque<br>Certificate                                      | None   | February 1                 | SAC                                   | GAC/COH<br>March 1  |
| Marshall B. Peterson Award<br><a href="#">(Page 46)</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<br>Certificate  | Under 30 years of age at time award is given (October of even-numbered years)    | February 1<br>(biennially) | SAC                                   | GAC/COH<br>March 1  |
| Mayo D. Hersey Award<br><a href="#">(Page 47)</a>                               | Distinguished contributions to the advancement of the science and engineering of tribology   | \$2,000<br>Plaque   | None   | February 1                 | SAC                                   | COH<br>March 1  |
| McDonald Mentoring Award<br><a href="#">(Page 48)</a>                           | Outstanding mentoring of other professionals by an engineer in industry, government, education or private practice   | \$1,000<br>Bronze Medal<br>Certificate<br>\$750 Expense<br>Supplement | Must be a Member of ASME, or another ICOMES Member Society, for at least 5 years | February 1                 | SAC                                   | GAC/COH<br>March 1  |
| Melville Medal<br><a href="#">(Page 74)</a>                                     | Best current original paper (Medal can also be bestowed on winner of another best paper award)   | \$2,000<br>Bronze Medal<br>Certificate<br>\$750 Expense<br>Supplement | One author must be a Corporate Member of ASME                                    | March 1                    | GAC                                   | GAC/COH<br>March 1  |
| Melvin R. Green Codes and Standards<br><a href="#">(Page 48)</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<br>Bronze Medal<br>Certificate                                | None   | January 1                  | SAC                                   | COH<br>March 1  |
| Milton C. Shaw Manufacturing Research Medal<br><a href="#">(Page 49)</a>        | Significant fundamental contributions to the science and technology of manufacturing processes   | \$1,500<br>Bronze Medal<br>Certificate                                | None   | February 1                 | SAC                                   | COH<br>March 1  |
| Nadai Medal<br><a href="#">(Page 49)</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<br>Bronze Medal<br>Certificate<br>\$750 Expense<br>Supplement   | None   | February 1                 | SAC                                   | COH<br>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<br>( <a href="#">Page 50</a> )     | Pioneering contributions to engineering leading to breakthroughs in existing technology or leading to new applications or new areas of engineering   | \$3,000<br>Bronze Medal<br>Certificate<br>\$750 Expense Supplement   | None  | September 1         | SAC                                   | COH<br>October 1  |
| Duane P. Jordan Early Career Award<br>( <a href="#">Page 50</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<br>Plaque<br>Prepaid Life Membership<br><br>2nd & 3rd: \$2,000<br>Plaque<br>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<br>March 1  |
| Old Guard Prizes for ASME Student Members<br>( <a href="#">Page 50-53</a> )         | Best 4 oral presentations at Student Contest at the IMECE  | 1st: \$2,000<br>2nd: \$1,500<br>3rd: \$1,000<br>4th: \$500<br>Certificate<br>\$750 Expense Supplement            | Student Members   | n/a                 | SAC                                   | COH<br>Congress   |
| Outstanding Student Section Advisor Award<br>( <a href="#">Page 77</a> )            | Outstanding leadership and service qualities to the program and operations of a Student Section for at least 3 years   | \$1,500<br>Silver Medal<br>Certificate<br>\$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<br>March 1  |
| Patrick J. Higgins Award<br>( <a href="#">Page 53</a> )                             | Contributions to the enhancement of standardization of ASME Standards and Engineering Services   | \$1,000<br>Bronze Medal<br>Certificate   | None  | September 1         | SAC                                   | GAC/COH<br>October 1  |
| Per Bruel Gold Medal for Noise Control and Acoustics<br>( <a href="#">Page 54</a> ) | Eminent achievement and extraordinary merit in the field of noise control and acoustics  | \$1,000<br>Vermeil Medal<br>Certificate<br>\$750 Expense Supplement  | None  | February 1          | SAC                                   | GAC/COH<br>March 1  |
| Performance Test Codes Medal<br>( <a href="#">Page 54</a> )                         | Significant contributions to the development and promotion of ASME Performance Test Codes  | \$1,000<br>Vermeil Medal<br>Certificate  | None  | January 1           | SAC                                   | GAC/COH<br>March 1  |
| Pi Tau Sigma Gold Medal<br>( <a href="#">Page 55</a> )                              | Outstanding achievement in mechanical engineering within 10 years following graduation<br><br>Special Nomination form required:<br><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<br>Gold Medal Certificate<br>\$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<br>March 20   |

## LISTING OF AWARDS

| <b>Name of Award</b>  | <b>Requirements</b>  | <b>Form of Award</b>  | <b>Limitation(s)</b>   | <b>Nomination Deadline</b> | <b>Send To Special Award Committee (SAC)</b> | <b>Awarded By Board of Governors (BOG)/Committee on Honors (COH)/ General Awards Committee (GAC)</b> |
|---|--|---|--|----------------------------|--|--|
| Prime Movers Committee Award<br><a href="#">(Page 75)</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 | \$2,500 Certificate   | None   | February 1                 | SAC  | GAC/COH<br>March 1   |
| R. Tom Sawyer Award<br><a href="#">(Page 56)</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   | August 15                  | SAC  | GAC/COH<br>October 1   |
| Ralph Coats Roe Medal<br><a href="#">(Page 57)</a>                          | Significant contributions to public understanding and appreciation of engineering's worth to society   | \$12,000 Gold Medal Certificate<br>\$750 Expense Supplement   | None   | September 15               | SAC  | COH<br>October 1   |
| Richard J. Goldstein Energy Lecture Award<br><a href="#">(Page 57)</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<br>\$750 Expense Supplement | None   | February 1                 | SAC  | COH<br>March 1   |
| Robert E. Koski Medal<br><a href="#">(Page 58)</a>                          | Advancing the art and practice of fluid power motion and control through education and/or innovation   | \$10,000 Bronze Medal Certificate<br>\$750 Expense Supplement | None   | February 15                | SAC  | COH<br>March 1   |
| Robert Henry Thurston Lecture Award<br><a href="#">(Page 58)</a>            | Outstanding leader in pure or applied science or engineering   | \$500 Plaque Certificate<br>\$500 Expense Supplement          | None   | February 15                | SAC  | COH<br>March 15  |
| Robert M. Nerem Education and Mentorship Medal<br><a href="#">(Page 59)</a> | Extraordinary and sustained level of lifetime achievement in the field of bioengineering education and mentoring   | \$1000 Bronze Medal Certificate<br>\$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<br>October 15  |
| Rufus Oldenburger Medal<br><a href="#">(Page 59)</a>                        | Outstanding lifetime achievements in automatic control   | \$2,000 Bronze Medal Certificate                              | None   | February 1                 | SAC  | COH<br>March 1   |

## LISTING OF AWARDS

| <b>Name of Award</b>   | <b>Requirements</b>   | <b>Form of Award</b>  | <b>Limitation(s)</b>   | <b>Nomination Deadline</b> | <b>Send To Special Award Committee (SAC)</b> | <b>Awarded By Board of Governors (BOG)/Committee on Honors (COH)/ General Awards Committee (GAC)</b> |
|--|---|---|--|----------------------------|--|--|
| Ruth and Joel Spira Outstanding Design Educator Award<br><a href="#">(Page 60)</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<br><a href="#">(Page 60)</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<br><a href="#">(Page 61)</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<br><a href="#">(Page 61)</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<br>\$750 Expense Supplement  | Must be an active member of BED  | September 1                | SAC  | COH March 1  |
| Sia Nemat-Nasser Early Career Award<br><a href="#">(Page 61)</a>                   | Excellence in the areas of experimental, computational, and theoretical mechanics and materials   | \$3,000 Medal Certificate<br>\$750 Expense Supplement         | Within 10 years of Ph.D. degree  | February 15                | SAC  | COH March 1  |
| Soichiro Honda Medal<br><a href="#">(Page 62)</a>                                  | Outstanding achievement or a series of significant contributions in the field of personal transportation  | \$7,500 Vermeil Medal Certificate<br>\$750 Expense Supplement | None   | October 1                  | SAC  | COH March 1  |
| Spirit of St. Louis Medal<br><a href="#">(Page 62)</a>                             | Meritorious service in the advancement of aeronautics and astronautics  | \$1,000 Vermeil Medal Certificate                             | None   | September 1                | SAC  | COH March 1  |
| Thomas K. Caughey Dynamics Medal<br><a href="#">(Page 63)</a>                      | Significant contributions to the field of nonlinear dynamics through practice, research, teaching and/or outstanding leadership   | \$2000 Bronze medal Certificate<br>\$750 Expense Supplement   | None   | September 15<br>Odd Years  | SAC  | COH March 1  |
| Thomas A. Edison Patent Award<br><a href="#">(Page 63)</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<br>\$750 Expense Supplement  | The patent must have been registered in the U.S.   | February 1                 | SAC  | COH March 1  |
| Timoshenko Medal<br><a href="#">(Page 64)</a>                                      | Distinguished contributions to the field of applied mechanics   | \$2,500 Bronze Medal Certificate<br>\$750 Expense Supplement  | None   | September 15               |  | COH March 1  |
| Van C. Mow Medal<br><a href="#">(Page 64)</a>                                      | Meritorious contributions to the field of bioengineering  | \$1,000 Bronze Medal Certificate<br>\$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<br><a href="#">(Page 65)</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<br>Bronze Medal<br>Certificate<br>\$750 Expense Supplement | None                                    | September 15        |  | SAC  | COH<br>March 1  |
| Wilfred C. LaRochelle Conformity Assessment Award<br><a href="#">(Page 66)</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<br>Bronze Medal<br>Certificate                             | None                                    | February 1          |  | Board on Conformity Assessment Honors and Awards Committee | COH<br>March 1  |
| William T. Ennor Manufacturing Technology Award<br><a href="#">(Page 66)</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<br>Vermeil Medal<br>Certificate                            | None                                    | February 1          |  | SAC  | COH<br>March 1  |
| Worcester Reed Warner Medal<br><a href="#">(Page 76)</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<br>Vermeil Medal<br>Certificate                            | Literature must be at least 5 years old | March 1             |  | GAC  | COH<br>March 1  |
|  |  |  |   |                     |  |  |   |



## LISTING OF AWARDS

| <b>Name of Award</b>                                      | <b>Requirements</b>  | <b>Form of Award</b>  | <b>Limitation(s)</b>   | <b>Nomination Deadline</b> | <b>Send To Special Award Committee (SAC)</b> | <b>Awarded By Board of Governors (BOG)/Committee on Honors (COH)/ General Awards Committee (GAC)</b> |
|---|--|---|--|----------------------------|--|--|
| Y.C. Fung Early Career Award<br><a href="#">(Page 67)</a> | Recognizes young investigators who are committed to pursuing research in the field of bioengineering   | \$1,000<br>Bronze Medal<br>Certificate<br>\$750 Expense<br>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<br>October 15  |
| Yeram S. Touloukian Award<br><a href="#">(Page 67)</a>    | Outstanding technical contributions in the field of thermophysical properties  | Bronze Medal<br>Certificate<br>\$750 Expense<br>Supplement<br>(Triennial)                   | None   | September 1                | SAC  | COH<br>October 15  |
| Zdeněk P. Bažant<br><a href="#">(Page 67)</a>             | Contributions to the field of mechanics through research, practice, teaching and/or outstanding leadership. Contribution to research must not be missing | Bronze Medal<br>Certificate<br>\$11,000 Expense<br>Supplement<br>\$750 travel<br>supplement | None   | September 15               | SAC  | COH<br>March 1   |

TABLE 2

**SPECIAL AWARD COMMITTEES**

| <b>AWARD</b>  | <b>TECHNICAL DIVISION<br/>OR OTHER SPONSOR</b>                           | <b>NAME OF COMMITTEE</b>  |
|---|--|---|
| 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                                 |
| John J. Montgomery Aerospace Medal                                  | Aerospace Division (AERO)  | John J. Montgomery Aerospace Medal Committee                                  |
| Spirit of St. Louis Medal   | Aerospace Division (AERO)  | Spirit of St. Louis Medal 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  |
| Zdeněk P. Bažant Medal  | Applied Mechanics Division (AMD)   | Zdeněk P. Bažant Medal Committee  |
| Edward Grood Interdisciplinary Team Science Medal in Bioengineering | Bioengineering Division (BED)  | Edward Grood Interdisciplinary Team Science Medal in Bioengineering 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                                |
| 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                      |
| Bernard F. Langer Nuclear Codes and Standards Award   | Board on Nuclear Codes and Standards            | Bernard F. Langer Nuclear Codes and Standards Award Committee   |
| Ben C. Sparks Medal                                   | Committee on Education                          | Ben C. Sparks Medal Committee                                   |
| Edwin F. Church Medal                                 | Committee on Education                          | Edwin F. Church Medal Committee                                 |
| Melvin R. Green Codes & Standards                     | Council on Standards & Certification            | Melvin R. Green Codes & Standards Medal Committee               |
| J. Hall Taylor Medal                                  | Council on Standards and Certification          | J. Hall Taylor Medal Committee                                  |
| Maan Jawad Boiler and Pressure Vessel Code Award      |   | Boiler and Pressure Vessel Code Award Committee                 |
| Barnett-Uzgiris Product Safety Design Award           | Design Engineering Division (DED)               | Barnett-Uzgiris Product Safety Design Award Committee           |
| 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                                  |
| 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 |
| 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                              |
| Rufus Oldenburger Medal                               | Dynamic Systems and Control Division (DSCD)     | Rufus Oldenburger Medal Committee                               |
| James Harry Potter Gold Medal                         | Energy Conversion Group (ECG)                   | James Harry Potter Gold Medal Committee                         |
| Allan Kraus Thermal Management Medal                  | Electronic & Photonic Packaging Division (EPPD) | Allan Kraus Thermal Management Medal Committee                  |
| Avram Bar-Cohen Memorial Award                        | Electronic & Photonic Packaging Division (EPPD) | Avram Bar-Cohen Memorial Award                                  |
| 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  |
| Robert E. Koski Medal                                      | Fluid Power Systems & Technology Divisions (FPST)                               | Robert E. Koski 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, TEC Sector Council | Richard J. Goldstein Energy Lecture Award                                   |
| 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   |
| <b>AWARD</b>   | <b>TECHNICAL DIVISION OR OTHER SPONSOR</b>                                      | <b>NAME OF COMMITTEE</b>  |
| <b>AWARD</b>   | <b>TECHNICAL DIVISION OR OTHER SPONSOR</b>                                      | <b>NAME OF COMMITTEE</b>  |
| Henry Laurence Gantt Medal                                 | Management Division (MD)  | Henry Laurence Gantt Medal Board  |
| DeVor-Kapoor Manufacturing Medal                           | Manufacturing Engineering Division (MED)  | DeVor-Kapoor Manufacturing 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   |
| Duane P. Jordan Early Career Award                         | Old Guard Committee   | Old Guard Committee   |

|   |  |   |
|---|--|---|
| 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                |
| 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        |
| James N. Landis Medal                       | Power and Nuclear Engineering Divisions (PD & NED) | James N. Landis Medal Committee             |
| George Westinghouse Medals                  | Power and Nuclear Engineering Divisions (PD & NED) | George Westinghouse Medals Committee        |
| Prime Movers Committee Award                | Power Division                                     | Prime Movers Award Committee                |

| <b>AWARD</b>                                     | <b>TECHNICAL DIVISION OR OTHER SPONSOR</b>                             | <b>NAME OF COMMITTEE</b>                                 |
|--|--|--|
| S.Y. Zamrik PVP Medal                            | Pressure Vessels and Piping Division (PVPD)                            | S.Y. Zamrik PVP Medal Committee                          |
| Adaptive Structures and Materials Systems Award  | Smart Materials, Adaptive Structures, and Intelligent Systems Division | Adaptive Structures and Material Systems Award Committee |
| Ayyub-Wiechel Risk Analysis Award                | Safety Engineering & Risk Analysis Division (SERAD)                    | Risk Analysis Award Committee                            |
| Robert Henry Thurston Lecture Award              | Technical and Engineering Communities (TEC) Sector                     | Robert Henry Thurston Lecture Award Committee            |
| 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           |
| 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 Early Publication Award        | General Awards Committee<br>(GAC) | General Awards Committee |
| Outstanding Student Section Advisor Award | General Awards Committee<br>(GAC) | General Awards Committee |
| Holley Medal                              | General Awards Committee<br>(GAC) | General Awards Committee |
| Melville Medal                            | General Awards Committee<br>(GAC) | General Awards Committee |
| Charles T. Main Student Leadership Awards | General Awards Committee<br>(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             | 2022 Katepalli R. Sreenivasan |
| 1963 Igor I. Sikorsky         | 2023 Huajian Gao              |
| 1964 Alan Howard              | 2024 Adrian Bejan             |
| 1965 Johannes M. Burgers      | 2025 Timothy C. Lieuwen       |
| 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    | 2020 Wei-Hsin Liao         | 2024 Paolo Ermanni       |
| 2017 Marcelo J. Dapino | 2021 Mary I. Frecker       | 2025 George A. Lesieutre |
| 2018 Diann Brei        | 2022 James E. Hubbard, Jr. |                          |
| 2019 Nancy L. Johnson  | 2023 Aditi Chattopadhyay   |                          |

## **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 | 2014 Peter E. Raad   | 2019 John R. Thome           | 2023 Evelyn N. Wang     |
| 2010 Kenneth E. Goodson  | 2015 Martha Rencz    | 2020 Michael J. Ellsworth Jr | 2024 Sushil H. Bhavnani |
| 2011 Robert E. Simons    | 2016 Ravi Mahajan    | 2021 Issam Mudawar           | 2025                    |
| 2012 Louis C. Chow       | 2017 Masaru Ishizuka | 2022 Samuel Graham Jr.       |                         |

## **AVRAM BAR-COHEN MEMORIAL AWARD**

The Avram Bar-Cohen Memorial Medal recognizes contributions to academic, research, and industrial communities in the broad field of heat transfer and related electronics, photonics, mechanics and packaging phenomena.

The nominee should have seminal contributions in the successful design, development and evaluation of electronics Packaging systems demonstrated by leading-edge product development, seminal peer-reviewed papers, filed patents, mentorship and/or leadership of research and development programs.

The InterPACK Achievement Award, established as a division award in 1999 by the Electronic and Photonic Packaging Division and operated as a divisional award until 2022, when it was elevated to a Society Award and renamed the Avram Bar-Cohen Memorial Medal.

### **AVRAM BAR-COHEN MEMORIAL AWARD RECIPIENTS**

|                           |                       |
|---------------------------|-----------------------|
| 2022 Pradeep Lall         | 2024 John H. Lau      |
| 2023 Sreekanth Narumanchi | 2025 H. Peter de Bock |



## **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 | 2022 Ashutosh Giri       |
| 2012 Henry Petroski         | 2023 Costin D. Untaroioi |
| 2013 Ren-Jye Yang           | 2025 Wei Chen            |
| 2014 Donald S. Blowski      |                          |
| 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        | 2024 Mary Lynn Realff    |
| 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  | 2022 Ashutosh Giri        |
| 2006 Wilson K.S. Chiu  | 2015 Baratunde Cola     | 2023 Rohini Bala Chandran |
| 2007 Andrei G. Fedorov | 2016 Patrick E. Hopkins | 2024 David M. Warsinger   |
| 2008 Laurent Pilon     | 2017 Austin J. Minnich  | 2025 Prashant Singh       |
| 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      | 2022 Robert I. Jetter      |
| 1989 William H. Miller, Jr. | 2006 Warren H. Bamford      | 2023 Helen A. Mearns       |
| 1990 Edward L. Williamson   | 2007 Raymond R. Weidler     | 2024 Ting-Leung Sham       |
| 1991 T. Eugene Northup      | 2008 Christopher L. Hoffman | 2025 Frank J. Schaaf, Jr   |

## **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     | 2022 Filippo Mangolini       |
| 1986 Itzhak Green            | 2005 Michael R. Lovell     | 2023 Melih Eriten            |
| 1987 Pawan K. Goenka         | 2006 Mitjan Kalin          | 2024 Brandon Alexander Krick |
| 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          | 2022 Norman A. Fleck          |
| 1955 Sylvan Cromer          | 1988 Ward O. Winer            | 2023 Robert O. Ambrose        |
| 1956 Everett M. Barber      | 1989 Ramesh K. Shah           | 2024 Narayana R. Aluru        |
| 1957 Wayne C. Edmister      | 1990 Ranga Komanduri          | 2025 Julio M. Ottino          |
| 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 Hirtleman, 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. McElhaney            | 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                           |                                     |  |
| 1935 G. Lowell Williams       | Lafayette College                                | 2000 Michele A. Monnier             | University of Dayton                                   |
| 1937 Allan P. Stern           | Case School of Applied Science                   | 2001 Andrea C. Hoth                 | Valparaiso University                                  |
| 1938 Edward W. Connelly       | University of Detroit                            | 2002 Amip Shah                      | Rowan University                                       |
| 1939 James H. Bright          | Lehigh University                                | 2003 Jill C. Anderson               | Boston University                                      |
| 1940 Frank de Pould           | Case School of Applied Science                   | 2004 Stephen J. Klick               | Boise State University                                 |
| 1941 John J. Balun            | University of Detroit                            | 2005 Mandy Brogdon                  | University of Dayton                                   |
| 1942 Bernard J. Isabella      | Case School of Applied Science                   | 2006 Adeodato I. Botello-Arrendondo | University De Guanajuato                               |
| 1943 Mitchell C. Kazen        | University of Detroit                            |                                     |  |
| 1944 Fred M. Piaskowski       | University of Detroit                            | 2007 Daniel Joseph Hanna            | Drexel University                                      |
| 1945 Jack Drandell            | Southern Methodist University                    | 2008 Vince D. Romanin               | University of Dayton                                   |
| 1946 Victor S. Rykwalder      | University of Detroit                            | 2009 Brianne M. Wilburne            | The Pennsylvania State University                      |
| 1947 Alvaro R. Boera          | Stevens Institute of Technology                  | 2010 Nathaniel Dale Taylor          | Drexel University                                      |
| 1948 Earle Duane Stewart      | University of Pittsburgh                         | 2011 Danielle Jacobson              | Drexel University                                      |
| 1949 Stanley M. Kuvacheff     | University of Detroit                            | 2012 Caitlin A. Correll             | Cooper Union   |
| 1950 Richard T. Johnson       | University of Detroit                            | 2013 Leila C. Aboharb               | Drexel University                                      |
| 1952 Israel E. Rubin          | Cooper Union School of Engineering               | 2014 Meredith A. Campbell           | Daniel Webster College                                 |
|                               | Princeton University                             | 2015 Jonathan D. Jennings           | University of Missouri                                 |
| 1953 Peter Ashurkoff          | Carnegie Institute of Technology                 | 2016 Hind Hajjar                    | American University of Beirut                          |
| 1954 John B. Pendergrass, Jr. | Cooper Union School of Engineering               | 2017 Gemma Iruegas                  | Universidad Panamericana                               |
| 1955 Richard J. Slember       | University of Detroit                            | 2018 Brandon Graham                 | Rowan University                                       |
|                               | University of Detroit                            | 2019 Sandy Karam                    | Notre Dame University – Louaize                        |
| 1956 Marion J. Balcerzak      | Clemson Agricultural College                     | 2020 Jad Hakim                      | MKSSS's Cummins College of Engineering for Women, Pune |
| 1957 Joseph P. Hunter         | University of Vermont                            | 2021 Arya Vyavahare                 | Purdue University                                      |
| 1958 Frank D. Sams            | Rice Institute                                   | 2022 Marcus Lanne                   | Purdue University                                      |
| 1959 James L. Benson          | Kansas State University                          | 2023 Sajon Seaberg                  | Mar Athanasius College of Engineering                  |
| 1960 John W. McDaniel         | Lamar State College of Technology                | 2025 Gopika A.K. Pillai             |  |
| 1961 Lester W. Wurm           | Kansas State University                          |                                     |  |
| 1962 David W. Wieting         | Wichita State University                         |                                     |  |
|                               | University of Washington                         |                                     |  |
| 1963 Robert Lafayette Ash     | Arizona State University                         |                                     |  |
| 1967 Muzzamil Niazi           | University of Alabama                            |                                     |  |
| 1968 Terry Dean Schmidt       | University of Kansas                             |                                     |  |
| 1970 Steve H. Woodard         | University of Wisconsin, Madison                 |                                     |  |
| 1971 James M. Singleton       | Clarkson College of Technology                   |                                     |  |
| 1972 Harold Chapin Lowe       | Purdue University                                |                                     |  |
| 1973 Gary Patrick Pezall      | Columbia University                              |                                     |  |
| 1974 Adrian P. Villa          | Auburn University                                |                                     |  |
| 1976 Scott Elliot Baker       | State University of New York at Buffalo          |                                     |  |
| 1977 Charles S. Tamarin       | Louisiana Technical University                   |                                     |  |
| 1978 Emily Earle              | Virginia Polytech Institute and State University |                                     |  |
| 1979 Richard A. Ferraro       | University of South Florida                      |                                     |  |
|                               | Worcester Polytechnic Institute                  |                                     |  |
| 1980 Russell S. Colvin        | University of Rochester                          |                                     |  |
| 1981 Scott H. Bueher          | Western New England College                      |                                     |  |
|                               | Kansas State University                          |                                     |  |
| 1982 Brenda B. Elarbee        | University of Southern Indiana                   |                                     |  |
| 1983 Stephen A. Hight         | University of New Hampshire                      |                                     |  |
| 1984 Linda Marie Hubbard      | University of Akron                              |                                     |  |
| 1985 Anne Bazan               | California State University, Long Beach          |                                     |  |
| 1986 Mark A. Meili            | University of Alabama, Birmingham                |                                     |  |
| 1987 Keith G. Benedict        | The City College, CUNY                           |                                     |  |
| 1988 Kelli L. Kowaleski       |  |                                     |  |
| 1989 Kirk W. Olsen            |  |                                     |  |
| 1990 Darleen Centala          |  |                                     |  |
|                               |  |                                     |  |
| 1991 Mark D. Conner           |  |                                     |  |
|                               |  |                                     |  |
| 1992 Maria D. Guerra          |  |                                     |  |

## 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               | 2022 Toukir A. Chowdhury | Chittagong University of Engineering & Technology |
| 1986 André L. Boehman        | University of Dayton                        |                          |   |
| 1987 Mark V. Martin          | University of Oklahoma                      | 2023 Sam Gibson          | University of Nebraska–Lincoln                    |
| 1988 Robert R. Hardman       | University of Alabama, Birmingham           | 2024 Rythin Varghese     | Federal Institute of Science and Technology       |
| 1989 Tina A. Williams        | Louisiana Technical University              |                          |   |
| 1990 Anne Marie East         | University of South Florida                 | 2025 Adhiga M S          | Government Engrg. College Barton Hill             |
| 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   |                          |   |
|                              | University of Alabama                       |                          |   |
| 2013 Sarah E. Johnson        | University of Alabama                       |                          |   |
| 2014 Claire C. Harper        | Georgia Institute of Technology             |                          |   |
| 2015 Caleb Amy               | National and Autonomous                     |                          |   |
| 2016 Eduardo Guevara         | University of Mexico                        |                          |   |
|                              | Federal Institute of Science and Technology |                          |   |
| 2017 Jithu Paulose           | Milwaukee School of Engineering             |                          |   |
| 2018 Joseph Pechstein        | Federal Institute of Science and Technology |                          |   |
| 2019 Abhijith J. Kumar       | University of Guanajuato                    |                          |   |
| 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    | 2008 Thomas C. T. Ting   | 2018 David M. Barnett    |
| 1999 Ascher H. Shapiro    | 2009 James R. Barber     | 2019 John L. Bassani     |
| 2000 Philip G. Hodge, Jr. | 2010 Rohan C. Abeyaratne | 2020 Glaucio H. Paulino  |
| 2001 Bruno A. Boley       | 2011 John W. Rudnicki    | 2021 Markus J. Buehler   |
| 2002 George J. Dvorak     | 2012 James W. Dally      | 2022 Horacio D. Espinosa |
| 2003 Leon M. Keer         | 2013 Yonggang Huang      | 2023 Arun Shukla         |
| 2004 Frank A. McClintock  | 2014 Lallit Anand        | 2024 Pradeep Sharma      |
| 2005 Robert L. Taylor     | 2015 K. Ravi-Chandar     | 2025 Hanqing Jiang       |
| 2006 Alan Needleman       | 2016 Kyung-Suk Kim       |                          |
| 2007 Albert S. Kobayashi  | 2017 David M. Parks      |                          |

### **DEVOR-KAPOOR MANUFACTURING MEDAL**

The DeVor-Kapoor Manufacturing Medal recognizes an individual or a team of researchers for a body of impactful achievements in the field of manufacturing.

The award was established by the Manufacturing Engineering Division in 2022.

#### **DEVOR-KAPOOR MANUFACTURING MEDALISTS**

|                 |                    |
|-----------------|--------------------|
| 2023 Jian Cao   | 2025 Fengzhou Fang |
| 2024 S. Jack Hu |                    |

### **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        | 2006 Richard Pombo    | 2014 Leo P. Duffy      | 2024 A. Alan Moghissi  |
| 2000 Seymour K. Padnos     | 2007 Richard Wilson   | 2015 Kaufui V. Wong    | 2025 Armistead Russell |
| 2001 John F. Elter         | 2008 Peter Maggiore   | 2016 Jerald L. Schnoor |                        |
| 2002 Mohammad A. Al-Sarawi | 2009 Robert G. Watts  | 2018 C. Andrew Miller  |                        |
| 2003 Ines R. Triay         | 2011 Thad W. Allen    | 2020 Edward S. Rubin   |                        |
| 2004 Pedro A. Gelabert     | 2012 Goshi Hosono     | 2021 Ashwani Gupta     |                        |
| 2005 Goetz K. Oertel       | 2013 Anibal L. Taboas | 2022 Haroon S. Kheshg  |                        |



## **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  | 1992 Stephen Juhasz     | 2013 William M. Worek          |
| 1974 Hobart A. Weaver   | 1993 Larry C. Oyen      | 2014 John W. Cipolla           |
| 1975 Harry Conn         | 1994 Avram Bar-Cohen    | 2015 William J. Wepfer         |
| 1976 Frank W. Von Flue  | 1997 Dean Kamen         | 2016 Karen A. Thole            |
| 1979 Kenneth A. Roe     | 1998 Allan K. Kraus     | 2017 Francis A. Kulacki        |
| 1980 Dennis K. Bushnell | 1999 Woodie C. Flowers  | 2018 Kendra V. Sharp           |
| 1981 Neal P. Jeffries   | 2000 John H. Lienhard   | 2019 Andreas Polycarpou        |
| 1982 Clinton H. Britt   | 2001 Frank Kreith       | 2020 Nael Barakat              |
| 1984 Milo Price         | 2002 William S. Hammack | 2021 Efstathios E. Michaelides |
| 1985 Emil L. Martinec   | 2003 Devendra Garg      | 2022 Suvarandu De              |
| 1987 Garland H. Duncan  | 2004 David Lavery       | 2023 Volker Sick               |
| 1988 Dale E. Klein      | 2005 Vincent Wilczynski | 2024 Oscar Barton, Jr.         |
| 1989 Adolph T. Molin    | 2009 Wilbur J. Marner   | 2025 Joseph J. Rencis          |
| 1990 James R. Welty     | 2011 Ramesh K. Agarwal  |                                |
| 1991 Joseph A. Falcon   | 2012 Kenneth S. Ball    |                                |

## **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 Greta 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        | 2023 Fotis Sotiropoulos           |
| 1995 Clayton T. Crowe        | 2024 Sivaramakrishnan Balachandar |
| 1996 Budugur Laskhminarayana | 2025 Michael S. Triantafyllou     |
| 1997 Virendra C. Patel       |                                   |
| 1998 Michael Roco            |                                   |
| 1999 Michael P. Paidoussis   |                                   |
| 2000 Fazle Hussain           |                                   |
| 2001 Ramesh K. Agarwal       |                                   |
| 2002 Paul Cooper             |                                   |
| 2003 Marvin E. Goldstein     |                                   |
| 2004 Joseph Katz             |                                   |
| 2005 Andrea Prosperitti      |                                   |
| 2006 Wolfgang A. Rodi        |                                   |
| 2007 Alexander J. Smits      |                                   |
| 2008 Ching-Jen Chen          |                                   |

## **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 | 2022 Ranga Pitchumani |
| 2010 Byard D. Wood     | 2024 S.A. Sherif      |
| 2011 Ann Marie Sastry  | 2025 Evelyn N. Wang   |
| 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 1984  | 2012 Richard R. Schultz  |
| 1956 Perry W. Pratt          | 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      | 2023 George Tsatsaronis  |
| 1967 Robert A. Baker, Sr.    | 1995 Thomas H. McCloskey       | 2024 Robert M. Wagner    |
| 1968 Roland A. Budenholzer   | 1998 Ashwani K. Gupta          | 2025 Kai Hong Luo        |
| 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 Frederick 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        | 2023 Stephen Lynch       |
| 1974 Shelby L. Owens          | 1995 V.K. "Bindi" Chexal    | 2024 David "Bobby" Noble |
| 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           | 2022 Yihui Zhang            |
| 1982 Melvyn C. Branch     | 2002 Thomas R. Kurfess          | 2023 Devesh Ranjan          |
| 1983 R. Byron Pipes       | 2003 Yonggang Huang             | 2024 Sinan Ketten           |
| 1984 Robert A. Altenkirch | 2004 Suresh V. Garimella        | 2025 Kejie Zhao             |
| 1985 Klaus-Jurgen Bathe   | 2005 Robert Parker              |                             |
| 1986 Bharat Bhushan       | 2006 Narayana R. 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. Setton               |
| 1993 Don P. Giddens     | 2008 Noshir A. Langrana     | 2023 Boris Rubinsky               |
| 1994 Sheldon Weinbaum   | 2009 Thomas P. Andriacchi   | 2024 Marjolein C H van der Meulen |
| 1995 Robert E. Mates    | 2010 Roger D. Kamm          | 2025 Kai-Nan An                   |
| 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<br>Simon Ostrach        | 1998 Amir Faghri<br>James V. Beck                 | 2015 John H. Lienhard V<br>Francis A. Kulacki |
| 1976 Warren H. Giedt<br>Raymond Viskanta    | 1999 Sanjoy Banerjee<br>Soung M. Cho              | Zhuomin Zhang                                 |
| 1977 Robert D. Cess<br>Rolf H. Sabersky     | Avram Bar-Cohen                                   | 2016 Raj M. Manglik<br>Jayathi Y. Murthy      |
| 1978 Richard J. Goldstein<br>John A. Clark  | 2000 Ta-Shen Chen<br>Ramesh K. Shah               | Brent W. Webb                                 |
| 1979 Arthur E. Bergles<br>Yih-Yun Hsu       | Ashley F. Emery                                   | 2017 Zahid H. Ayub<br>Christoph Beckermann    |
| 1980 John H. Lienhard                       | 2001 Portonovo S. Ayyaswamy<br>George P. Peterson | Mohammed El-Genk                              |
| 1981 Ared Cezairliyan<br>Kwang-Tzu Yang     | 2002 Massoud Kaviani<br>Je-Chin Han               | 2018 Li Shi<br>M. Pinar Mengüç                |
| Ivan Catton                                 | Roop L. Mahajan                                   | Timothy S. Fisher                             |
| 1982 Yasuo Mori                             | 2003 Dimos Poulikakos<br>M. Michael Yovanovich    | 2019 Dereje Agonafer<br>James Klausner        |
| 1983 Roger Eichhorn                         | James R. Welty                                    | Satwindar S. Sadhal                           |
| 1984 Wei-Jei Yank                           | 2004 Mohammad Faghri<br>Yildiz Bayazitoglu        | 2020 Bahgat Sammakia<br>Vishwanath Prasad     |
| 1985 Ralph Greif<br>Virgil E. Schrock       | 2005 Abdolhossein Haji-Sheikh<br>Michael Modest   | Terrance Simon                                |
| 1986 Richard C. Chu<br>Arcot Ramachandran   | Wei Shyy  | 2021 Laurent Pilon<br>Michael Ohadi           |
| 1987 Ralph L. Webb<br>M. Necati Ozisik      | 2006 Arun Majumdar<br>C. Thomas Avedisian         | Wilbur J. Marnier                             |
| 1988 Gerard M. Faeth<br>Frank P. Incropera  | Kambiz Vafai                                      | 2022 Karen A. Thole<br>Srinath V. Ekkad       |
| 1989 Bora B. Mikic<br>Tom J. Love, Jr.      | 2007 Donald M. McEligot<br>Costas Grigoropoulos   | Ravi S. Prasher                               |
| Robert J. Moffat                            | Van P. Carey                                      | 2023 Gautam Biswas<br>D. Y. Tzou              |
| 1990 Alfred L. Crosbie<br>Michael M. Chen   | 2008 Lawrence A. Kennedy<br>Leon R. Glicksman     | Jane H. Davidson                              |
| Michael G. Dunn                             | Gang Chen   | 2024 John C. Bischof<br>Milind A. Jog         |
| 1991 John R. Howell<br>Kenneth L. Johnson   | 2009 Cristina H. Amon<br>Jong H. Kim              | Srinivas Garimella                            |
| Suhas V. Patankar                           | Richard H. Pletcher                               | 2025 Yasuyuki Takata<br>Hongbin Ma            |
| 1992 Vijay K. Dhir<br>Thomas F. Irvine, Jr. | 2010 Suresh V. Garimella<br>John R. Thome         | S.A. Sherif                                   |
| Wataru Nakayama                             | Mamoru Ishii                                      |   |
| 1993 Vedat S. Arpaci<br>W. J. Minkowycz     | 2011 Bengt A. Sundén<br>Sumanta Acharya           |   |
| 1994 Kenneth R. Diller<br>Adrian Bejan      | 2012 Chang H. Oh<br>Satish G. Kandlikar           |   |
| 1995 John R. Lloyd<br>Yogesh Jaluria        | Javad T. Mostaghimi                               |   |
| 1996 Boris Rubinsky<br>Ping Cheng           | 2013 Aldo Steinfeld<br>Yogendra Joshi             |   |
| Leroy S. Fletcher                           | Issam Mudawar                                     |   |
| 1997 Chung K. Law<br>Sadik Kakac            | 2014 Jacob Nan-Chu Chung<br>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             | 2023 Guru Madhavan |
| 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. Whipple      | 2020 Ryoichi S. Amano      |
| 1982 Allan J. Acosta        | 2021 Robert J. Visintainer |
| 1983 Calvin A. Gongwer      | 2022 Paul U. Thamsen       |
| 1984 Harold H. Anderson     | 2023 Mehrdad Zangeneh      |
| 1985 Samuel L. Collier      | 2024 Phillip M. Ligrani    |
| 1986 Warren H. Fraser       | 2025 Luis San Andres       |
| 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            | 2023 Robert Hauck           |
| 1947 Raymond D. Johnson       | 2024 Kenneth A. Warren      |
| 1948 Edwin H. Land            | 2025 Babasaheb Kalyani      |
| 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 Shockley         |                             |
| 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           | 2010 William J. “Bill” Adams |                        |
| 1980 Robert M. Drake, Jr.   | Harry Armen                  |                        |
| Jost M. Haenny              | David N. Wormley             | 2023 Dereje Agonafer   |
| Yu-Tung Hu                  | Sam Y. Zamrik                | Joseph J. Beaman       |
| Alexander L. London         | 2011 Adrian Bejan            | Ali Erdemir            |
| Frithiof I. Niordson        | Junuthula N. Reddy           | Azad M. Madni          |
| Jacques Peters              | 2012 Yildiz Bayazitoglu      | Judith A. Todd         |
| Kenneth Preiss              | Zdënek P. Bažant             | 2024 Marco Amabili     |
| 1981 James L. Everett       | Vijay K. Dhir                | Subir Chowdhury        |
| 1985 Ronald L. Geer         | Yogesh Jaluria               | Michael Khonsari       |
| Theodore H.H. Pian          | 2013 Ted Belytschko          | Zhuomin Zhang          |
| 1986 Bernard Crossland      | John R. Howell               | Jean Zu                |
| 1989 Hans W. Liepmann       | Said Jahanmir                | 2025 Timothy S. Fisher |
| 1990 George Herrmann        | Sadik Kakaç                  | John H. Lienhard V     |
| 1991 George N. Sandor       | Arunava Majumdar             | Raj M. Manglik         |
| 1992 Richard M. Christensen | 2014 Warren R. DeVries       | Chandrakant Patel      |
| Bernard L. Koff             | Pol D. Spanos                | Kon-Well Wang          |
| 1993 Joseph M. Juran        | 2015 Romesh C. Batra         |                        |
| 1995 Thomas R. Kane         | Wilbur J. Marner             |                        |
| Paul Leung                  | Terry E. Shoup               |                        |
| John H. Lienhard            | 2016 Cristina H. Amon        |                        |
| 1996 Yuan-Cheng B. Fung     | Ashwani Gupta                |                        |
| Ascher H. Shapiro           | Shiv G. Kapoor               |                        |
| 1997 L. S. “Skip” Fletcher  | 2017 Ramesh K. Agarwal       |                        |
| Salomon Levy                | John W. Cipolla              |                        |
| C. Dan Mote, Jr.            | Michael F. Modest            |                        |
| 1999 W. Wayne Allen         | 2018 Portonovo S. Ayyaswamy  |                        |
| Michael M. Carroll          | Alan Needleman               |                        |
| John Dundurs                | Robert M. Nerem              |                        |
| Henry McDonald              | Frank E. Talke               |                        |
| 2002 Jan D. Achenbach       | 2019 Bilal M. Ayyub          |                        |
| Bei Tse Chao                | D. Yogi Goswami              |                        |
| 2003 Karl J. Springer       | Amir Faghri                  |                        |
| John A. Swanson             | 2020 Je-Chin Han             |                        |
| 2004 Ray M. Bowen           | Masayoshi Tomizuka           |                        |
| J. Tinsley Oden             | Farshid Sadeghi              |                        |
| 2005 Sia Nemat-Nasser       | 2021 Pamela Norris           |                        |
| John H. Sununu              | Hameed Metghalchi            |                        |
| 2006 Alva L. Addy           | John B. Kitto Jr.            |                        |
| James R. Welty              | Marshall G. Jones            |                        |
| Ward O. Winer               | Yonggang Huang               |                        |
| 2007 Bobby L. Green         | 2022 Tsu-Wei Chou            |                        |
| 2009 David L. Belden        | Michael F. Molnar            |                        |
| William A. Weiblen          | Huseyin Sehitoglu            |                        |
|                             | Savio L-Y. Woo               |                        |
|                             | Singiresu S. Rao             |                        |



## **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 Duntelman  | 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    | 2022 Roy J. Primus        |
| 1979 Helmuth G. Braendel | 1994 Otto A. Uyehara       | 2010 John E. Dec           | 2023 Jeffrey D. Naber     |
| 1981 Phillip S. Myers    | 1995 John C. Hallinan      | 2011 Rolf D. Reitz         | 2024 Zoran S. Filipi      |
| 1982 David B. Field      | 1997 Benny Ballheimer      | 2012 Nicholas P. Cernansky | 2025 Avinash K. Agarwal   |
| 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 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 RECIPIENTS**

2020 Columbia Mishra  
 2021 Sara Wheeland  
 2022 Jennifer Jewers Bowlin  
 2023 Emily Boyd  
 2025 Amy Mensch

## **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 | 2023 Fotis Sotiropoulos     |
| 2015 David John Ewins  | 2025 Richard H. Rand        |
| 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. Wesstrom   | 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         | 2022 Richard D. Campbell |
| 1979 John F. Harvey      | 2001 William N. McLean       | 2023 Steven C. Roberts   |
| 1980 Paul M. Brister     | 2002 Allen Selz              | 2024 George Rawls        |
| 1981 Robert J. Cepluch   | 2003 Michael Gold            | 2025 Jimmy E. Meyer      |
| 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 Poulikakos         | 2018 Raj M. Manglik            |
| 1982 Paul Leung               | 2001 Kunio Yoshikawa          | 2020 Nagamangala K. Anand      |
| 1983 Kenneth C. Cotton        | 2003 Aswhani K. Gupta         | 2021 Tatiana Morosuk           |
| 1984 Robert H. Page           | 2004 Van P. Carey             | 2022 Kai H. Luo                |
| 1985 Warren H. Giedt          | 2005 Amir Faghri              | 2024 Efstathios E. Michaelides |
| 1986 Jack P. Holman           | 2006 Richard O. Buckius       | 2025 Jay P. Gore               |
| 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 Kaviani          |                                |
| 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     | 2025 Frederick J. Moody |
| 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        | 2023 Frank L. Michell       |                         |
| 1995 Eugene V. Abraham      | 2024 James M. Wieters       |                         |

### **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 promote inclusiveness of all people.

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           | 2022 Sheryl Sorby           |
| 2008 Klod Kokini             | 2023 Mahesh C Aggarwal      |
| 2009 Richmond Area Program   | 2024 Sriram Sundararajan    |
| for Minorities in            | 2025 Solomon Adrea          |
| 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       | 2022 Daisie Boettner         |
| 2014 Ursula M. Burns      | 2023 Jayathi Y. Murthy       |
| 2015 F. Suzanne Jenniches | 2024 Patricia Brackin        |
| 2016 Helen L. Reed        | 2025 Karen A. Thole          |
| 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 Seiueemon Inaba           | 2019 Sujeet Chand               |
| 1988 Donald E. Petersen        | 2020 Krishnamoorthy Subramanian |
| 1989 Brian H. Rowe             | 2021 K. Scott Smith             |
| 1990 Thorton A. Wilson         | 2022 Brian J. Papke             |
| 1991 Edson I. Gaylord          | 2023 Dawn R. White              |
| 1992 Günter Spur               | 2024 Robert Caron               |
| 1993 Robert H. Wentorf, Jr.    | 2025 Keith J. Krach             |
| 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    | 2022 Diann Brei           |
| 1962 J.F. Downie Smith      | 1991 F.R. Erskine Crossley | 2023 Shapour Azarm        |
| 1963 Colin Carmichael       | 1992 Edward J. Haug, Jr.   | 2025 Qiaode Jeffrey Ge    |
| 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 | 2024 Tomas F. Babuska |
| 2002 Jiaxin               |                       |
| 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             | 2022 Christopher DellaCorte |
| 1975 Arthur F. Underwood     | 2023 Luis San Andres        |
| 1976 John Boyd               | 2024 Q. Jane Wang           |
| 1977 Robert L. Johnson       | 2025 Mitjan Kalin           |
| 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 | 2022 Daniel R. Cooper      |
| 2014 Nael Barakat            | 2023 Mary I. Frecker       |
| 2015 Carlos L. Lasarte V     | 2024 Xiulin Ruan           |
| 2016 Luciano Castillo        | 2025 Guillermo Aguilar     |

## **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   | 2022 Richard W. Swayne      |
| 1987 Jack B. Levy            | 2005 James H. Turner, Jr. | 2023 Ralph S. Hill III      |
| 1988 John H. Fernandes       | 2006 J. Robert Sims, Jr.  | 2024 Jay Cameron            |
| 1989 Howard F. Dobel         | 2007 Guido G. Karcher     | 2025 George Rawls           |
| 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     | 2022 Gary J. Cheng           |
| 2014 Albert Shih      | 2023 Robert X. Gao           |
| 2015 Y. Lawrence Yao  | 2024 Shreyes N. Melkote      |
| 2016 Steven Y. Liang  | 2025 Yong Huang              |
| 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 Zdenek P. Bazant       |
| 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. | 2022 George Z. Voyiadjis    |
| 1994 Owen Richmond          | 2023 Nancy Sottos           |
| 1995 Nicolaie D. Cristescu  | 2024 Julia R. Greer         |
| 1996 James R. Rice          | 2025 Vikram Deshpande       |
| 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 A. Rogers    |
| 2013 Andrew J. Viterbi     | 2023 Gwendolyn E. Boyd |
| 2014 Xiang Zhang           | 2024 Javad Mostaghimi  |
| 2015 George W. Sutton      | 2025 Seid Koric        |
| 2016 Evangelos T. Laskaris |                        |
| 2018 Ivar Giaever          |                        |

## **DUANE P. JORDAN EARLY CAREER AWARD**

The Duane P. Jordan 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. The Old Guard Early Career Award was established by the Old Guard Committee in 1994 and renamed the Duane P. Jordan Early Career Award in 2022.

### **DUANE P. JORDAN 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. Horne       | 2022 Bryan Maldonado           |
| 2004 Matthew L. Robinson    | 2023 Richard A. Clayson        |
| 2005 Howard Berkof          | 2024 Shreyas Hegde             |
| 2006 Catherine Q. Lengsfeld | 2025 Richard L. Hollenbach III |
| 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        | 2014 Anomitra Banerjee | Birla Institute of Technology and Science |
| 1969 Walter H. Peters III | Auburn University               | 2015 Tyler M. Pharris  | Baylor University                         |
| 1970 Joseph R. Titone     | Cornell University              |                        |   |
| 1971 James L. Lee         | Auburn University               |                        |   |
| 1972 Stanley W. Blossom   | Oklahoma State University       |                        |   |
| 1973 Steven H. Blossom    | Oklahoma State University       |                        |   |
| 1974 Gary L. Smith        | Oklahoma State University       |                        |   |
| 1975 Steven R. Bussolari  | Union College                   |                        |   |
| 1976 Paul E. Hollis       | University of Washington        |                        |   |
| 1977 Pauline B. Cramer    | University of Washington        |                        |   |
| 1978 Jan D. Dozier        | Auburn University               |                        |   |
| 1979 Joe D. Kececioglu    | University of Arizona           |                        |   |
| 1980 John J. Marsal       | Tulane University               |                        |   |
| 1981 Dan J. Schmitt       | Oklahoma State University       |                        |   |
| 1982 Gary F. St. Onge     | Union College                   |                        |   |
| 1983 Jonathan R. Willey   | San Diego State University      |                        |   |
| 1984 Jeffrey McAllister   | Brigham Young University        |                        |   |
| 1985 Ed Rissberger        | Columbia University             |                        |   |
| 1986 Chris Della Corte    | Case Western Reserve University |                        |   |
| 1987 Shannon S. Breon     | Iowa State University           |                        |   |
| 1988 John H. Barrett      | Tufts University                |                        |   |
| 1989 Michael B. Hogan     | Auburn University               |                        |   |
| 1990 Craig N. Gawreluk    | Montana State University        |                        |   |
| 1991 Karen S. Schlangen   | University of Minnesota         |                        |   |
| 1992 Kevin Naziri         | California State Poly/Pomona    |                        |   |
| 1993 Irene J. Beyerlein   | Clemson University              |                        |   |
| 1994 Jeffrey La Borde     | Louisiana State University      |                        |   |
| 1995 Kelly Habicht        | San Diego State University      |                        |   |
| 1996 Janea Stulp          | Colorado State University       |                        |   |
| 1997 Scott Wenger         | Virginia Polytechnic Institute  |                        |   |
| 1998 Victoria E. Wood     | University of Tulsa             |                        |   |
| 1999 D. Nathaniel Mulcahy | University of Mass. at Amherst  |                        |   |
| 2000 Kristen Busko        | Gonzaga University              |                        |   |
| 2001 Daniel B. Vicario    | Villanova University            |                        |   |

**OLD GUARD – 2nd PRIZE RECIPIENTS**

|                          |                                 |                     |                            |
|--------------------------|---------------------------------|---------------------|----------------------------|
| 1982 John I. Macy        | University of Kansas            | 2013 Jerry Wang     | Yale University            |
| 1983 Richard F. Beaufort | Brigham Young University        | 2014 Brandon Horton | Virginia Tech              |
| 1984 John DiMarco        | University of Dayton            | 2015 Pin Ti Chen    | National Taiwan University |
| 1985 Michael T. Nelson   | Clemson University              |                     |                            |
| 1986 Thomas Cavallaro    | Clemson University              |                     |                            |
| 1987 Marc Richelsoph     | Vanderbilt University           |                     |                            |
| 1988 Locke R. Koreis     | Seattle University              |                     |                            |
| 1989 James N. Cantrell   | Utah State                      |                     |                            |
| 1990 Moji I. Ijaz        | Virginia Polytechnic Institute  |                     |                            |
| 1991 Alan K. Jones       | Portland State University       |                     |                            |
| 1992 John Jraiche        | University of Windsor           |                     |                            |
| 1993 Andrew M. Dudas     | Bradley University              |                     |                            |
| 1994 Todd M Beller       | Purdue University               |                     |                            |
| 1995 Allan D. Parks      | University of Windsor           |                     |                            |
| 1996 Michael Ogg         | Christian Brothers University   |                     |                            |
| 1997 David B. Lenhert    | Wichita State University        |                     |                            |
| 1998 Jeremy C. Patterson | University of NC at Charlotte   |                     |                            |
| 1999 John M. R. Rask     | Le Tourneau University          |                     |                            |
| 2000 Paul Hvass          | Le Tourneau University          |                     |                            |
| 2001 Jared Fryar         | University of Portland          |                     |                            |
| 2002 Marie K. Moran      | University of Tulsa             |                     |                            |
| 2003 Smitesh Bakrania    | Union College                   |                     |                            |
| 2004 Brian Montague      | Cedarville University           |                     |                            |
| 2005 Conall Dempsey      | University of Illinois          |                     |                            |
| 2006 Matthew Teicholz    | University of Connecticut       |                     |                            |
| 2007 Shannon Yee         | The Ohio State University       |                     |                            |
| 2008 Jeff Lombardo       | University of Connecticut       |                     |                            |
| 2009 Shiyu Liu           | Nanyang Tech. Univ., Singapore  |                     |                            |
| 2010 Carol Regalbuto     | University of Illinois          |                     |                            |
| 2011 Adam Kimberlin      | Tennessee Technology University |                     |                            |
| 2012 Pejmon Abrarpour    | Texas Tech                      |                     |                            |

**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                      | 2014 Michael Crump     | Texas Tech University       |
| 1989 James L. Kahler     | South Dakota State University             | 2015 Gorman Donnelly   | Union College               |
| 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<br>University/San Louis Obispo |
| 1998 Mark A. Kurfman    | St. Louis University at Parks Coll.                         |
| 1999 Paula Jean Runge   | Mississippi State University                                |
| 2000 Cory Cooper        | US Air Force Academy  |
| 2001 Jonathan Slager    | Torneau University  |
| 2002 David M. Chapin    | Union College   |
| 2003 William Erwin      | Vanderbilt University                                       |
| 2004 Lincoln Potwin     | Wentworth University  |
| 2005 Thomas Barry       | University of Hartford                                      |
| 2006 Matthew McCrink    | Boise State University                                      |
| 2007 Andrew Gustafson   | California State University                                 |
| 2008 Daniel Koch        | University of Colorado-Denver                               |
| 2009 Hunter McLelland   | Tennessee Technological<br>University                       |
| 2010 Daniel Gerber      | University of Alabama                                       |
| 2011 Alan Chatterton    | University of Idaho   |
| 2012 Luke Fredette      | Cedarville University                                       |
| 2013 Kristian Saull     | Loughborough University                                     |
| 2014 Joseph Kim         | Yale University   |
| 2015 Matthew Lesniewski | Milwaukee School of Engineering                             |

### 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 longstanding 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          | 2023 Peter DeMarco          |
| 2014 Brian Parry               | 2025 William M. Smith, Jr.  |
| 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     | 2023 Xin Zhang        |
| 1991 Alan Powell         | 2007 Jerry H. Ginsberg   | 2025 Tony Jun Huang   |
| 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      | 2024 Terry Sullivan   |
| William G. McLean              | 2005 Samuel J. Korellis       | 2025 Mitchell Johnson |
| 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           | 2022 Tina L. Toburen          |                       |
| 2002 John M. Burns             | 2023 Joseph A. Silvaggio, Jr. |                       |

## **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 established 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        | 1963 Herbert Richardson        | 1989 Steven M. Wilson       | 2018 Nenad Miljkovic        |
| 1939 John Yellot, Jr.          | 1964 Richard L. Peskin         | 1990 Dionissios N. Assanis  | 2019 Jesse Capecealatro     |
| 1940 George A. Hawkins         | 1965 John Bollinger            | 1991 Yves H. Berthelot      | 2020 David Kwabi            |
| 1941 R. Hosmer Norris          | 1966 Jason R. Lemon            | 1993 Melany L. Hunt         | 2021 Yangying Zhu           |
| 1942 John T. Rettaliata        | 1967 William O'Donnell         | 1994 Zhigang Suo            | 2022 R. Renee Zhao          |
| 1943-46 No award<br>due to war | 1968 Randall F. Barron         | 1995 Thomas R. Kurfess      | 2023 Akanksha K. Menon      |
| 1947 David Cochrane            | 1969 Henry K. Newhall          | 1996 Gregory S. Chirikjian  | 2024 Raudel Avila           |
| 1948 Walter G. Vincenti        | 1970 Richard E. Barrett        | 1998 Wei Chen               | 2025 Matthew J. Powell-Palm |
| 1949 Philip S. Myers           | 1971 James R. Rice             | 1999 Margaret S. Wooldridge |                             |
| 1950 Arthur P. Adamson         | 1972 John F. Stephens III      | 2000 Connie J. Buynacek     |                             |
| 1951 Warren M. Rohsenow        | 1973 Christian E.G. Przirembel | 2002 Assimina A. Pelegri    |                             |
| 1952 Robert L. O'Brien         | 1974 Jace W Nunziato           | 2003 Bogdan I. Epureanu     |                             |
| 1953 Merle Baker               | 1975 Ted B. Belytschko         | 2004 Kenneth A. Gall        |                             |
| 1954 Emmett E. Day             | 1976 John S. Walker            | 2006 Nicholas Fang          |                             |
| 1955 Robert C. Dean, Jr        | 1977 Richard E. Lovejoy        | 2009 A. John Hart           |                             |
| 1956 John A. Clark             | 1978 David A. Peters           | 2010 David L. Burris        |                             |
| 1957 Patrick McDonald, Jr.     | 1980 Doyle D. Knight           | 2011 David Saintillan       |                             |
| 1958 Allison E. Simons         | 1982 Pol D. Spanos             | 2012 Amos Winter            |                             |
| 1959 Donald F. Hays            | 1984 Michael R. Muller         | 2013 Randy Ewoldt           |                             |
| 1960 George Hatsopoulos        | 1985 Wing Kam Liu              | 2014 Ibrahim T. Ozbolat     |                             |
| 1961 Ernest T. Selig           | 1986 Dimos Poulidakos          | 2015 Neil P Dasgupta        |                             |
| 1962 E. Bruce Lee              | 1987 David L. McDowell         | 2016 David Henann           |                             |
|                                | 1988 Mark F. Hamilton          | 2017 Shannon K. Yee         |                             |

### **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            | 2023 Karen A. Thole     |
| 1974 Waheeb Rizk           | 1999 Donald E. Bently          | 2024 Kenneth C. Hall    |
| 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             | 2023 Winston Oluwole Soboyejo |
| 1978 David Perlman              | 2002 Dean Kamen               | 2024 Madiha El Mehelmy Kotb   |
| 1979 William D. Carey           | 2003 Vernon J. Ehlers         | 2025 Calvin Mackie            |
| 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  
 2024 M. Stanley Whittingham

### **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 | 2023 Perry Y. Li     |
| 2008 Clifford R. Burrows    | 2016 Kim A. Stelson      | 2024 Andrew Plummer  |
| 2009 Jan Ove Palmberg       | 2017 Werner Dieter       | 2025 Adolfo Senatore |
| 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 | 2022 Rudolf Scheidl      |                      |

### **ROBERT HENRY THURSTON LECTURE AWARD**

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

#### **ROBERT HENRY THURSTON LECTURE AWARD RECIPIENTS**

|                           |                             |                         |
|---------------------------|-----------------------------|-------------------------|
| 2001 John W. Hutchinson   | 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         | 2022 Robert O. Ritchie  |
| 2005 Savio L-Y. Woo       | 2014 Ken P. Chong           | 2023 Ramamoorthy Ramesh |
| 2006 Sia Nemat-Nasser     | 2015 Horacio D. Espinosa    | 2024 Xin Zhang          |
| 2007 Wing Kam Liu         | 2016 Romesh C. Batra        | 2025 Gang Bao           |
| 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     | 2023 Victor H. Barocas  |
| 2019 Kenneth R. Diller | 2024 James E. Moore Jr. |
| 2020 Dawn Elliott      | 2025 Alan W. Eberhardt  |
| 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       | 1995 George Leitmann         | 2025 Hassan K Khalil |
| 1969 Nathaniel B. Nichols    | 1996 George D. Zames         |                      |
| 1970 John R. Ragazzini       | 1997 Thomas B. Sheridan      |                      |
| 1971 Charles Stark Draper    | 1998 David G. Luenberger     |                      |
| 1972 Albert J. Williams, Jr. | 1999 Yu-Chi Ho               |                      |
| 1973 Clesson E. Mason        | 2000 Ioan D. Landau          |                      |
| 1974 Herbert W. Ziebolz      | 2002 Masayoshi Tomizuka      |                      |
| 1975 Hendrik W. Bode         | 2003 Vadim Utkin             |                      |
| Harry Nyquist                | 2004 Alistair MacFarlane     |                      |
| 1976 Rudolf Emil Kalman      | 2005 Roger W. Brockett       |                      |
| 1977 Gordon S. Brown         | 2006 J. Karl Hedrick         |                      |
| Harold L. Hazen              | 2007 Suguru Arimoto          |                      |
| 1978 Yasundo Takahashi       | 2008 A. Galip Ulsoy          |                      |
| 1979 Henry M. Paynter        | 2009 Neville J. Hogan        |                      |
| 1980 Arthur E. Bryson, Jr.   | 2010 Rolf Isermann           |                      |
| 1981 Shih-Ying Lee           | 2011 Haruhiko H. Asada       |                      |
| 1982 Bernard Friedland       | 2012 Mathukumalli Vidyasagar |                      |
| 1983 J. Lowen Shearer        | 2013 Graham C. Goodwin       |                      |
| 1984 Herbert H. Richardson   | 2014 Robert R. Bitmead       |                      |
| 1985 Karl J. Astrom          | 2015 Manfred Morari          |                      |
| 1986 Eliahu I. Jury          | 2016 Jean-Jacques Slotine    |                      |
| 1987 Walter R. Evans         | 2017 Miroslav Krstic         |                      |
| 1988 Robert H. Cannon, Jr.   | 2018 Roberto Horowitz        |                      |
| 1989 Jaakov Z. Tsytkin       | 2019 Huei Peng               |                      |
| 1990 Harold Chestnut         | 2020 Mark W. Spong           |                      |
| 1991 John G. Truxal          | 2021 Sosale Shankara Sastry  |                      |
| 1992 Issac M. Horowitz       | 2022 Wayne J. Book           |                      |
| 1993 Lotfi A. Zadeh          | 2023 Davor Hrovat            |                      |
| 1994 Howard H. Rosenbrock    | 2024 Petros A. Ioannou       |                      |

## **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         | 2022 Kamran Behdinan      |
| 2011 Farrokh Mistree      | 2023 Shorya Awtar         |
| 2012 David R. Wallace     | 2024 Shanna R. Daly       |
| 2013 Douglass J. Wilde    | 2025 Amaresh Chakrabarti  |

## **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. Ceppluch       | 2021 Poh-Sang Lam        |
| 1991 James R. Farr            | 2022 Hardayal S. Mehta   |
| 1992 Donald S. Griffin        | 2023 Douglas A. Scarth   |
| 1993 Jeffrey T. Fong          | 2024 Claude Faidy        |
| 1994 William J. O'Donnell     | 2025 Abdel-Hakim Bouzid  |
| 1995 G.E. Otto Wiedera        |                          |
| 1996 Sam Y. Zamrik            |                          |
| 1997 Robert W. Swindeman      |                          |
| 1998 Sumio Yukawa             |                          |
| 1999 Frederick J. Moody       |                          |
| 2000 Rudolph J. Scavuzzo      |                          |
| 2001 Shoei-Sheng Chen         |                          |
| 2002 Alexander H. Marr        |                          |
| 2003 Fumio Hara               |                          |
| 2004 Greg L. Hollinger        |                          |
| 2005 Richard C. Gwaltney      |                          |
| 2006 Michel J. Pettigrew      |                          |
| 2007 Carl E. Jaske            |                          |
| 2008 Arturs Kalnins           |                          |
| 2009 Charles Becht IV         |                          |
| 2010 Toshiyuki Sawa           |                          |

### **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     | 2022 Davis L. Turner     |
| 1992 Edward A. Donoghue  | 2008 Louis Bialy              | 2023 Henry Peelle III    |
| 1993 Robert L. Seymour   | 2009 Michael C. Polagye       | 2024 Marcus H. Tevyaw    |
| 1994 James D. Schell     | 2010 James W. Coaker          | 2025 Ronald Kohner       |
| 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 TRANSLANTIONAL BIOMECHANICS MEDALISTS**

|                             |                       |
|-----------------------------|-----------------------|
| 2016 B. Barry Lieber        | 2021 Danny Bluestein  |
| 2017 Arthur Erdman          | 2022 Zong-Ming Li     |
| 2018 Kyriacos A. Athanasiou | 2023 Tamara Reid Bush |
| 2019 Rita M. Patterson      | 2024 Guy M. Genin     |
| 2020 Mehmet Toner           | 2025 Umut A. Gurkan   |

### **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 | 2025 Grace X. Gu |
|---------------------|---------------------|-----------------|------------------|

|                      |                          |                       |
|----------------------|--------------------------|-----------------------|
| 2013 Thao D. Nguyen  | 2017 Yashashree Kulkarni | 2021 Yuhang Hu        |
| Ting Zhu             | 2018 Tak-Sing Wong       | 2022 Ankit Srivastava |
| 2014 Kevin T. Turner | Yihui Zhang              | 2023 Lihua Jin        |
| 2015 Yong Zhu        | 2019 Sinan Keten         | 2024 R. Renee Zhao    |

### **SOICHIRO 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.

### **SOICHIRO HONDA MEDALISTS**

|                          |                          |                         |
|--------------------------|--------------------------|-------------------------|
| 1984 John P. Stapp       | 2001 Robert C. Stempel   | 2017 John E. Dec        |
| 1985 Shoichi Furuhami    | 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     | 2022 Subir Chowdhury    |
| 1989 Shunichi Ohigashi   | 2006 David E. Foster     | 2023 Huei Peng          |
| 1990 Charles M. Heinen   | 2007 Wallace R. Wade     | 2024 Hongtei E. Tseng   |
| 1991 Hans C. List        | 2008 Robin Stuart Sharp  | 2025 Peter K. Senecal   |
| 1992 Hiroyuki Hiroyasu   | 2009 David F. Merriam    |                         |
| 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    | 2022 George A. Kardomateas |
| 1962 Robert H. Widmer           | 1980 Michael Collins     | 2000 John C. Houbolt     | 2023 Wayne Johnson         |

1963 Frederick C. Crawford  
 1964 Robert R. Gilruth  
 1965 William H. Pickering  
 1966 Christopher C. Kraft, Jr

1981 Edgar M. Cortright, Jr.  
 1982 Frank N. Piasecki  
 1983 John W. Young  
 1984 Charles S. Draper

2001 Sheila E. Widnall  
 2002 Thomas J. Kelly  
 2003 Peretz P. Friedmann  
 2005 Robert H. Liebeck

2024 William A. Sirignano  
 2025 Stephen W. Tsai

### **THOMAS K. CAUGHEY 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  
 2022 Earl Dowell  
 2023 Haiyan Hu  
 2024 Friedrich Pfeiffer  
 2025 Balakumar Balachandran

### **THOMAS A. EDISON PATENT AWARD**

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

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

### **THOMAS A. EDISON PATENT AWARD RECIPIENTS**

2000 Herman H. Viegas  
 2001 Alexander M. Gorlov  
 2002 Hooshang Heshmat  
 2003 John N. Basic, Sr.  
 2004 Faydor L. Litvin  
 2005 Ching-Pang Lee  
 2006 Charles A. Garriss  
 2007 Norman R. McCombs

2008 Kyriacos A. Athanasiou  
 2009 Alex J. Severinsky  
 2010 Jyotirmoy Mazumder  
 2012 Vipin Kumar  
 2013 Moshe Shoham  
 2015 Andy Walker  
 2020 Shorya Atwar  
 2022 Robert O. Ambrose

2023 Phillip Cameron Chesser  
 Brian K. Post  
 Randall F. Lind  
 Alex Roschli  
 Lonnie J. Love



## **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   | 1982 John W. Miles                 | 2009 Zdeněk P. Bažant       |
| 1958 Arpad L. Nadai          | 1983 Daniel C. Drucker             | 2010 Wolfgang Knauss        |
| Sir Geoffrey Taylor          | 1984 Joseph B. Keller              | 2011 Alan Needleman         |
| Theodore von Karman          | 1985 Eli Sternberg                 | 2012 Subra Suresh           |
| 1959 Sir Richard Southwell   | 1986 George R. Irwin               | 2013 Richard M. Christensen |
| 1960 Cornelius B. Biezano    | 1987 Ronald S. Rivlin              | 2014 Robert M. McMeeking    |
| Richard Grammel              | 1988 George K. Batchelor           | 2015 Michael Ortiz          |
| 1961 James N. Goodier        | 1989 Bernard Budiansky             | 2016 Ray Ogden              |
| 1962 Maurice A. Biot         | 1990 Stephen H. Crandall           | 2017 Viggo Tvergaard        |
| 1963 Michael James Lighthill | 1991 Yuan-Cheng B. Fung            | 2018 Ares J. Rosakis        |
| 1964 Raymond D. Mindlin      | 1992 Jan D. Achenbach              | 2019 Junuthula N. Reddy     |
| 1965 Sydney Goldstein        | 1993 John L. Lumley                | 2020 Mary C. Boyce          |
| 1966 William Prager          | 1994 James R. Rice                 | 2021 Huajian Gao            |
| 1967 Hillel Poritsky         | 1995 Daniel D. Joseph              | 2022 Michael A. Sutton      |
| 1968 Warner T. Koiter        | 1996 J. Tinsley Oden               | 2023 Guruswami Ravichandran |
| 1969 Jakob Ackeret           | 1997 John R. Willis                | 2024 Pierre M. Suquet       |
| 1970 James J. Stoker         | 1998 Olgierd C. Zienkiewicz        | 2025 Norman A. Fleck        |
| 1971 Howard W. Emmons        | 1999 Anatol Roshko                 |                             |
| 1972 Jacob P. Den Hartog     | 2000 Rodney J. Clifton             |                             |
| 1973 Eric Reissner           | 2001 Ted Belytschko                |                             |
| 1974 Albert E. Green         | 2002 John W. Hutchinson            |                             |
| 1975 Chia-Chiao Lin          | 2003 Lambert B. Freund             |                             |
| 1976 Erastus H. Lee          | 2004 Morton E. Gurtin              |                             |
| 1977 John D. Eshelby         | 2005 Grigory Isaakovich Barenblatt |                             |
| 1978 George F. Carrier       | 2006 Kenneth L. Johnson            |                             |
| 1979 Jerald L. Ericksen      | 2007 Thomas J.R. Hughes            |                             |
| 1980 Paul M. Naghdi          | 2008 Sia Nemat-Nasser              |                             |
| 1981 John H. Argyris         |                                    |                             |

## **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      | 2021 Rafael V. Davalos     |
| 2006 Robert L. Sah          | 2014 Christopher R. Jacobs | 2022 Robert L. Mauck       |
| 2007 Lori A. Setton         | 2015 Dawn M. Elliott       | 2023 Alison L. Marsden     |
| 2008 Scott L. Delp          | 2016 Beth A. Winkelstein   | 2024 Thao D. Nguyen        |
| 2009 Michael S. Sacks       | 2017 Richard R. Neptune    | 2025 Yongjie Jessica Zhang |
| 2010 Tony M. Keaveny        | 2018 Jeffrey W. Holmes     |                            |
| 2011 David A. Vorp          | 2019 Tony Jun Huang        |                            |
| 2012 John Bischof           | 2020 Stavros Thomopoulos   |                            |



## **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 | 2023 Yiu-Wing Mai          |
| 1998 Viggo Tvergaard    | 2011 James G. Simmonds       | 2024 H. Jerry Qi           |
| 1999 Charles R. Steele  | 2012 Erik Van der Giessen    | 2025 Jean-Baptiste Leblond |
| 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 Kaliat T. Ramesh        |                            |
| 2007 Chin-Teh Sun       | 2020 Anthony M. Waas         |                            |
| 2008 Richard D. James   | 2021 Gerhard A. Holzapfel    |                            |
| 2009 Stelios Kyriakides | 2022 Vikram Desphande        |                            |

### **WILFRED C. LA ROCHELLE CONFORMITY ASSESSMENT AWARD**

The Wilfred C. LaRochele 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. LaRochele.

#### **WILFRED C. LA ROCHELLE CONFORMITY ASSESSMENT AWARD RECIPIENTS**

|                              |                         |
|------------------------------|-------------------------|
| 2018 Robert V. Wielgoszinski | 2023 Michael L. Turnbow |
| 2019 Edgar A. Whittle        | 2024 David E. Tuttle    |
| 2021 Richard R. Stevenson    | 2025 Paul A. Williams   |

### **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        | 2022 Kwok Tai Lau              |
| 2000 Inyong Ham         | 2023 William P. King           |
| 2001 Robert J. Hocken   | 2024 Yuebin Guo                |
| 2002 Ranga Komanduri    | 2025 Satyandra K. Gupta        |
| 2003 Richard E. DeVor   |                                |
| Shiv G. Kapoor          |                                |
| 2004 Stephen Malkin     |                                |
| 2006 Jyotirmoy Mazumder |                                |
| 2008 Chunghorn 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        | 2023 Jessica M. Oakes             |
| 2009 Robert L. Mauck         | 2024 Adrian Buganza Tepole        |
| 2010 Matthew J. Gounis       | 2025 Spencer E. Szczeny           |
| 2011 Ali Khademhosseini      |                                   |
| 2012 Marissa N. Rylander     |                                   |
| 2013 Jonathan P. Vande Geest |                                   |

### **YERAM S. TOULOUKIAN AWARD**

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

Funding to support the award was provided by Purdue University to honor the contributions of Yeram S. 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       | 2024 Li Shi          |
| Koichi Watanabe             | Mark O. McLinden     |
| 2012 Michael R. Moldover    |                      |
| Peter T. Cummings           |                      |
| 2015 Mikhail A. Anisimov    |                      |
| David G. Cahill             |                      |

### **ZDENĚK P. BAŽANT MEDAL**

The Zdeněk P. Bažant Medal, established in 2002, recognizes an individual who has made significant contributions to the field of mechanics through research, practice, teaching and/or outstanding leadership. Contribution to research must not be missing.

2024 Yong Zhu  
2025 Huck B. Chew

## 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 Pruszyński        | 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        | 2022 Radhika Dharmadhikari   |
| 1974 James J. Callas       | 1998 Darrick A. Dean        | 2024 Muhammad Sadiq Ul Islam |
| 1976 Enud David Laska      | 1999 Matthew E. Myers       | 2025 Hassan Khan             |
| 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      | 2022 Michel Khoueiry        |
| 1995 Connie J. Bleidorn        | 2025 Abdul H. Shakil Hafeez |
| 1996 Che J. Barnes             |                             |
| 1997 Kenneth P. Horne          |                             |
| 1998 Elizabeth M. Mastal       |                             |
| 1999 Donna L. Hall             |                             |
| 2001 David. L. Damm            |                             |
| 2002 Andrew E. Karl            |                             |
| 2003 Scott A. Fisher           |                             |
| 2004 Paul F. Tatum             |                             |
| 2005 John Q. Bolton            |                             |
| 2006 Amanda M. Thomas          |                             |
| 2007 Lori Michelle Neidig      |                             |
| 2008 Walter S. Fredenhagen III |                             |
| 2009 Tessa Rae Nott            |                             |
| 2010 Elizabeth Betterbed       |                             |

#### **THIRD PLACE**

|                                 |                          |
|---------------------------------|--------------------------|
| 1988 John Ellenz                | 2015 Joseph R.H. Schaadt |
| 1989 Deborah S. Schenberger     | 2025 Muhammad H. Ahmad   |
| 1990 John E. Davison            |                          |
| 1991 Kathleen A. Conley         |                          |
| 1992 Kingman Tang               |                          |
| 1993 Daniel A. Fletcher         |                          |
| 1994 John C. Schiffer           |                          |
| 1995 Anthony T. Lomma           |                          |
| 1996 Ookyong Kim                |                          |
| 1997 Brian D. Myers             |                          |
| 1998 Aaron Marsh                |                          |
| 1999 Koh Boon Kiat              |                          |
| 2001 Anne Hines                 |                          |
| 2003 Christopher L. Murphy      |                          |
| 2004 Aashish Kalra              |                          |
| 2006 Joy K. Adjorlolo           |                          |
| 2007 Danielle Kimberly Williams |                          |
| 2008 Chris L. Cohoat            |                          |
| 2009 Elizabeth Betterbed        |                          |
| 2010 Andrew W. Corwell          |                          |
| 2011 Jericho Paolo O. Rivera    |                          |
| 2013 Lucas C. Poppe             |                          |
| 2014 Uyanna Obinna              |                          |

## **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.<br>John A. Cook             | 1991 Eiji Usui<br>Masami Masuko                 | 2010 Dalong Gao<br>Ugur Ersoy                 | 2025 Haozheng Qu<br>Gary J. Cheng |
| 1956 Orlan W. Boston<br>William W. Gilbert           | Akihiko Hirota                                  | Robin Stevenson                               | Xingtao Liu                       |
| 1957 Bei T. Chao<br>Kenneth J. Trigger               | Takahiro Shirakashi                             | Pei-Chung Wang                                | Sen Xiang                         |
| 1958 S.A. Tobias<br>Wilfred Fishwick                 | Takeaki Kitagawa                                | 2011 O. Burak Ozdoganlar<br>Sinan Filiz       | Licong An                         |
| 1960 B. Popper<br>David W. Pessen                    | 1992 Guangming Zhang<br>Shiv G. Kapoor          | 2012 Rui Zhou<br>Jian Cao                     |                                   |
| 1961 Joseph R. Roubik                                | 1993 Changsheng Guo<br>Stephen Malkin           | Kornel F. Ehmann                              |                                   |
| 1962 W.A. Mohn                                       | Fershid Engineer                                | Chun Xu                                       |                                   |
| 1963 E.G. Thomsen<br>A.G. MacDonald                  | 1994 David A. Stephenson                        | 2013 Yusuf Altintas<br>Caner Ekşioglu         |                                   |
| 1965 Robert S. Hahn                                  | 1995 Jerzy Kozak<br>Kamlakar P. Rajurkar        | Zekai M. Kilic                                |                                   |
| 1967 J. Hopenfeld<br>R.R. Cole                       | Bin Wei   | 2014 Mingyang Li<br>Lie Tang                  |                                   |
| 1968 Kuo-King Wang<br>Shien-Ming Wu                  | 1996 William R.D. Wilson<br>Tse-Chi Hsu         | Robert G. Landers                             |                                   |
| Kazuaki Iwata  | Xiubao Huang                                    | Ming C. Leu                                   |                                   |
| 1971 William P. Koster<br>Louis J. Fritz             | 1997 William J. Endres<br>Richard E. DeVor      | 2017 Hai Trong Nguyen<br>Hui Wang             |                                   |
| 1974 S.P. Loutrel<br>N.H. Cook                       | Shiv G. Kapoor                                  | Bruce L. Tai                                  |                                   |
| 1975 Sindre Holoyen<br>C. Dan Mote, Jr.              | 1998 Shounak M. Athavale<br>John S. Strenkowski | Jie Ren                                       |                                   |
| 1980 Robert A. Thompson<br>Subbiah Ramalingam        | John A. Bailey                                  | S. Jack Hu                                    |                                   |
| John D. Watson                                       | 1999 Jamal Sheikh-Ahmad                         | Albert J. Shih                                |                                   |
| 1981 Ranga Komanduri<br>Robert H. Brown              | John A. Bailey                                  | 2018 Sripathi Sah<br>Numpon Mahayotsanun      |                                   |
| 1982 Nam P. Suh<br>Bruce M. Kramer                   | 2000 Barney E. Klamecki<br>Woncheol Choi        | Michael Peshkin                               |                                   |
| 1983 Richard E. DeVor<br>William A. Kline            | Thomas R. Kurfess                               | Jian Cao                                      |                                   |
| Igbal A. Shareef                                     | 2002 Charalabos C. Doumanidis<br>Yong-Min Kwak  | Robert X. Gao                                 |                                   |
| 1984 Chunghorng R. Liu<br>Moshe M. Barash            | 2003 Ihab Hanna<br>Scott A. Hucker              | 2019 Burak Sencer<br>Shingo Tajima            |                                   |
| 1985 Paul K. Wright                                  | Robin Stevenson                                 | 2020 ChaBum Lee                               |                                   |
| 1986 David A. Dornfeld<br>Elijah Kannatey-Asibu, Jr. | Guoxian Xiao                                    | 2022 Pablo Hernández Becerro<br>David Schranz |                                   |
| 1988 Betzalel Avitzur<br>Rensen Wu                   | 2004 Jose M. Hurtado<br>Shreyes N. Melkote      | Christian Buesser                             |                                   |
| Samuel H. Talbert                                    | 2005 Yong Huang<br>Steven Y. Liang              | Josef Mayr                                    |                                   |
| Ye T. Chou   | 2006 Y. Lawrence Yao<br>I. Cevdet Noyan         | Jan Konvicka                                  |                                   |
| 1989 Lucian Kops<br>M. Helmi Attia                   | Wenwu Zhang                                     | Joel Purtschert                               |                                   |
| 1990 Jiri Tlustý                                     | 2007 Yung C. Shin<br>Yinggang Tian              | Konrad Wegener                                |                                   |
|  | 2008 Andrew E. Honegger<br>Shiv G. Kapoor       | 2023 Xiao-Ming Zhang<br>Dong Zhang            |                                   |
|  | Richard E. DeVor                                | Markus Meurer                                 |                                   |
|  | 2009 Robert J. Hocken<br>Jimmie A. Miller       | Thomas Bergs                                  |                                   |
|  | K. Scott Smith                                  | Han Ding                                      |                                   |
|  | Bethany A. Woody                                | 2024 Yu Ding<br>Satish T.S. Bukkapatnam       |                                   |
|  |   | Shilan Jin                                    |                                   |
|  |   | Sean M. Hayes                                 |                                   |

## **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                      | 2022 George-Rafael Domenikos |
| Takahiro Suzuki           | 2012 Michael R. von Spakovsky | Irene Koronaki               |
| Masashi Yamamoto          | Charles E. Smith              | Emmanuel Rogdakis            |
| 2000 Anthony J. Bowman    | 2014 Ghassan J. Nicolas       | 2023 Phillip Dyer            |
| Richard A. Gaggioli       | Mohammad Janbozorgi           | George J. Nelson             |
| David Paulus, Jr.         | Hameed Metghalchi             | Griffin Smith                |
| David H. Richardson       | 2016 Sara Cosentino           | 2024 Stefan Kolling          |
| 2001 Elias P. Gyftopoulos | Adriano Sciacovelli           | Marian Bulla                 |
| 2002 Cristian Carraretto  | Vittorio Verda                | Elham Sahraei                |
| Alberto Mirandola         | 2017 Luca Rivadossi           | 2025 Gianluca Carraro        |
| Anna Stoppato             | Gian P. Beretta               | George Tsatsaronis           |
| 2003 Luis M. Serra        | 2018 Andrea Toffolo           | Enrico Dal Cin               |
| 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             | 2023 Theodore J. Heindel |
| 1990 Budugur Lakshminarayana | 2010 Michael W. Reeks          | 2024 Suman Chakraborty   |

## **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           | 2024 Michael Casey |
| 1965 J.S. Alford           | David C. Wisler          | David Bell                  | Chris Robinson     |
| 1966 Franklin O. Carta     | 1993 Joel M. Haynes      | Gurnam Singh                | 2025 Gary Lock     |
| 1967 Arthur D. Bernstein   | Gavin J. Hendricks       | 2008 Ronald S. Bunker       | Tom E.W. Nicholas  |
| William H. Heiser          | Alan H. Epstein          | 2009 Budimir Rosic          | James A. Scobie    |
| Charles M. Hevenor         | 1994 Edward M. Greitzer  | Eric M. Curtis              | Hui Tang           |
| 1968 O.E. Balje            | Daniel L. Gysling        | John D. Denton              | Mikolaj Jan Pernak |
| 1969 Carlyle Reid          | 1995 Bruce P. Biederman  | John P. Longley             | Jake T. Williams   |
| 1970 J.L. Kerrebrock       | Craig J. Fischberg       | 2010 Martin N. Goodhand     | Richard Jackson    |
| 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 | Zoltán 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 Etemad          | 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          | 2023 Jinwook Lee            |                    |
| Bruce V. Johnson           | 2005 Ivor J. Day         | Zoltán S. Spakovszky        |                    |
| Thomas J. Hajek            | Christopher Freeman      | Edward M. Greitzer          |                    |
| 1990 James H. Leylek       | John C. Williams         | Mark Drela                  |                    |
| David C. Wisler            | 2006 Budimir Rosic       | Jérôme Talbotec             |                    |
| 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   | 2022 R. Renee Zhao        |
| 1938 Arthur C. Stern    | Rundong Zhang             |
| 1940 Robert E. Newton   | Shuai Wu                  |
| 1941 John Rettaliata    | Qiji Ze                   |
| 1942 Winston M. Dudley  | 2024 Eleonora Tubaldi     |
| 1943 Troels Warming     | Michael R. Bonthro        |
| 1945 Bruce Del Mar      | 2025 Xiaojia Shelly Zhang |
| 1946 Martin Goland      | Zhi Zhao                  |
| 1947 Gilbert T. Rowe    | Chao Wang                 |
| 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         | 2022 Glaucio H. Paulino |
| 1944 Ernest Robinson    | Steve C. Kuei            | Howard P. Hodson          | Ke Liu                  |
| 1945 William J. King    | W. Michael Lai           | Hyoun-Woo Shin            | Tomohiro Tachi          |
| 1946 Troels Warming     | Cecil G. Armstrong       | 1999 Aspi R. Wadia        | 2023 Xue Feng           |
| 1947 Raymond Martinelli | 1983 Albert M.C. Chan    | Peter N. Szucs            | Yinji Ma                |
| 1948 Reginald Gillmor   | Sanjoy Banerjee          | David W. Crall            | Hairui Wang             |
| 1950 Samuel J. Loring   | 1984 Michael F. Blair    | 2001 Robert E. Kielb      | Chen Wei                |
| 1951 Clayton Barnard    | 1985 Lung-Wen Tsai       | Josef Panovsky            | Yao Zhang               |
| 1952 Neil P. Bailey     | Alexander P. Morgan      | David C. Wisler           | Heling Wang             |
| 1953 Jefferson Falkner  | 1986 Robert W. Bjorge    | 2003 Brent F. Beacher     | Ying Chen               |
| 1954 Edmund Sylvester   | Peter Griffith           | Fredric F. Ehrich         | 2024 R. Renee Zhao      |
| 1955 Robert T. Knapp    | 1987 Dennis L. Siebers   | Zoltan S. Spakovszky      | Sophie Leanza           |
| 1958 Thomas P. Goodman  | Robert J. Moffatt        | Manuel Martinez-          | Lu Lu                   |
| 1959 Stephen J. Kline   | Richard G. Schwind       | Sanchez                   | John W. Hutchinson      |
| 1960 William G. Steltz  | 1988 Theodore L. Bergman | Hyoun-Woo Shin            | Jize Dai                |
| 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 Dhir                |                         |
| 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<br>Walter F. Friend<br>Edward C. Duffy<br>Gustaf A. Gaffert<br>Fred W. Argue<br>Bernhardt G.A. Skrotski<br>Robert B. Donworth<br>Walter J. Lyman<br>T. Harry Mandil<br>Nunzio J. Palladino  | 1977 M. Araoka<br>J.D. Fox<br>H. Haneda<br>K. Setoguchi<br>W.F. Siddall<br>1979 Henry E. Lokay<br>D.G. Rame<br>W.R. Brosey<br>1980 Heinz E. Termuehlen<br>1981 Bezalel Bornstein<br>Kenneth C. Cotton<br>1982 Eric Raask<br>1983 Paul G. Albert<br>William J. Sumner<br>1984 Kenneth C. Cotton<br>Harris S. Shafer<br>Thomas H. McCloskey<br>Robert H. Boettcher<br>1985 David H. Cooke<br>1986 William J. Sumner<br>James H. Vogan<br>Robert J. Lindinge<br>1987 Peter Schofield<br>David A. Lantzzy<br>1988 Heinrich Oeynhausen<br>Gerhard Roettger<br>Jurgen Ewald<br>Kurt Schleithoff<br>Heinz. E. Termuehlen | 2005 Fred D. Lang<br>Loren E. Mayer<br>Dave A.T. Rodgers<br>2007 Thomas Reis<br>Dani Fadda<br>Mark A. Buzanowski<br>2008 La Ronda Bowen<br>Allen Dusault<br>Ruth MacDougall<br>Heidi Ochsner<br>George Simons<br>2009 Robert Brandt Jr.<br>2010 Antonio Diego-Marin<br>Carlos Melendez-Cervantes<br>Angel A. Mendez-Aranda<br>Armando Giles-Alarcon<br>2011 William H. Kirkenir<br>David Earley<br>2012 Luther M. Raatikka<br>2013 Arun Puri<br>John DiBiase<br>2014 Robert J. Bell<br>Albert S. Birks<br>2016 Weizhong Feng<br>2017 Darren M. Nightingale |
| 1956 Milton Shaw<br>John W. Simpson<br>1957 Henrich Hegetschweller<br>Robert L. Bartlett<br>1958 Vivian F. Estcourt<br>1959 J. Kenneth Salisbury<br>1960 Sigmlkund N. Fiala<br>James N. Harlow<br>1961 Charles Stroh, Jr.<br>1963 E.F. Walsh<br>R.L. Jackson<br>R.E. Warner<br>1964 Everett P. Partridge<br>1965 A.E. Weller<br>W.T. Reid<br>1966 F.J. Hanzalek<br>P.G. Ipsen<br>1967 Homer F. Hatfield<br>Mark G. Pfeiffer<br>Charles B. Wurtz<br>1968 G.N. Stone<br>A. J. Clark<br>1969 Paul Goldstein<br>Charles L. Burton<br>1970 Paul Leung<br>Raymond E. Moore<br>1971 Paul Leung<br>Raymond E. Moore<br>1972 G.S. Liao<br>Paul Leung<br>1973 D.W. Raho<br>R.C. Scarberry<br>J.R. Crum<br>P.E. Morris<br>1974 Bezalel Bornstein<br>Paul Leung<br>1975 Karl A. Gulbrand<br>Paul Leung<br>1976 Hans-Gunter Haddenhorst<br>Wolfgang Mattick<br>Z. Stanley Stys<br>Otto Weber | 1990 Rick Blomgren<br>Thomas G. Ebben<br>Imdad Imam<br>John R. Scheibel<br>1992 John B. Kitto, Jr.<br>James S. Klug<br>Steven A. Bryk<br>1993 Michael F. Link<br>Erich Winschuh<br>Karl-Heinz Winterberg<br>Arne Mattis<br>1994 Rattan K. Tawney<br>Ram G. Narula<br>Michael J. Boswell<br>Fabrizio DeCandia<br>1997 Thomas H. McCloskey<br>Michael A. Pollard<br>John N. Schimmels<br>2000 David B. Smith<br>David A. Mauney<br>2001 Marco Gambini<br>Michela Vellini  |  |

## **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 Eksergian        | 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 Loudon        | 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         | 2022 Kumbakonam R. Rajagopal  |
| 1967 Nicholas J. Hoff       | 2023 David L. McDowell        |
| 1968 Merhyle F. Spotts      | 2024 Shi-Wei Ricky Lee        |
| 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.          | Clarkson University                        | 2011 Jay M. Samuel       | University of Wisconsin-Madison           |
| Sathyamoorthy                |  | 2012 Rick J. Couvillion  | University of Arkansas                    |
| 1994 Paul C. Lam             | University of Akron                        | 2013 A. Richard Merz     | Lafayette College                         |
| 1995 Charles F. Reinholtz    | Virginia Polytechnic Institute             | 2014 Antonios Kontsos    | Drexel University                         |
| 1996 Richard R. Johnson      | North Carolina State University            | 2015 Selin Arslan        | Lawrence Technological                    |
| 1997 Latif Jiji              | City College of New York                   |                          | 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          | 2023 Parisa Saboori      | Manhattan College                         |
|                              |  | 2024 Paul O. Biney       | Prairie View A & M 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 is 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 for Mining, Metallurgy & Exploration (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                                |

## SECTION IV



**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 nominations 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.



## **SAMPLE 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.



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 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.

12/11/23